

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Continue  
Implementation and Administration, and  
Consider Further Development, of California  
Renewables Portfolio Standard Program

Rulemaking 18-07-003  
(Filed July 12, 2018)

**FINAL 2023 RENEWABLES PORTFOLIO STANDARD  
PROCUREMENT PLAN OF SAN DIEGO COMMUNITY POWER**

**PUBLIC VERSION**

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## **Summary of Changes**

In accordance with the California Public Utilities Commission's ("Commission") Decision ("D.") 23-12-008 *Decision on 2023 Renewables Portfolio Standard Procurement Plans*, San Diego Community Power ("SDCP") hereby submits its Final 2023 Renewables Portfolio Standard ("RPS") Procurement Plan. D.23-12-008 orders SDCP to file this Final 2023 RPS Procurement Plan as corrected to address Commission findings. The following changes have been made to SDCP's Draft 2023 RPS Procurement Plan, originally filed with the Commission on July 17, 2023:

- In accordance with D. 23-12-008 Section 8.3.10 Table 2, SDCP has corrected the Executive Summary at page 5 to show the same figures for retail sales as are reflected in Appendix C. The previous version of the RPS Plan showed erroneous figures.
- In accordance with D. 23-12-008 Section 8.3.10 Table 8, SDCP has updated the Total Retail Sales in both the Cost Quantification Template in Appendix E to match the Total Retail Sales in the Renewable Net Short Calculation in Appendix C.
- In accordance with D. 23-12-008 Section 8.3.10 Table 10, SDCP has corrected the following redactions:
  - On page 42 of the RPS Plan Narrative, the Expected COD and Network Upgrades Milestones cells for the IP Oberon project are not marked for redaction in the confidential version, and SDCP is not seeking confidential treatment for these items.
  - The Variable Faa (Failure Rate for Online Generation) and Variable Fbb (Failure Rate for RPS Facilities in Development) are no longer redacted in the Renewable Net Short ("RNS") template in Appendix C for the years 2023-2025 and the CP 4

and CP 5 totals. Additionally, RNS variables A, C, E, Fa, Fb, Fc-F3, D, Ga, Gb, La, and Lb are no longer redacted for the year 2023.

- The columns for Expected Annual Generation and Total Contract Volume in the Project Development Status Update template in Appendix D are no longer redacted.
- The redactions on the Cost Quantification template were removed for the year 2023 and the MFUS has been updated to reflect all redactions in the Cost Quantification template.
- The COD for the IP Oberon solar project is no longer redacted in the PDSU template.
- The redactions on pp. 25-26 in Section IV.A.1 are no longer redacted.

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In accordance with the California Public Utilities Commission’s (“Commission”) May 5, 2023 *Assigned Commissioner and Assigned Administrative Law Judges’ Ruling Identifying Issues and Schedule of Review for 2023 Renewables Portfolio Standard Procurement Plans* (“ACR”), San Diego Community Power (“SDCP”) hereby submits its Final 2023 Renewables Portfolio Standard Procurement Plan (“RPS Procurement Plan”). This RPS Procurement Plan includes responses to the issues listed in sections 6.1-6.16 of the ACR.

SDCP notes that certain issues and requests in these ACR sections apply to other retail sellers (electrical corporations and electric service providers) and do not extend to Community Choice Aggregators (“CCAs”). SDCP is nevertheless voluntarily responding to these ACR sections in the interest of transparency and to collaborate with the Commission. The submission of this RPS Procurement Plan pursuant to the ACR, however, should not be construed as a waiver of the right to assert that components of Senate Bill (“SB”) 350, or Commission decisions and rulings on RPS Procurement Plan submittals, do not extend to CCAs, and SDCP reserves the right to challenge any such assertion of jurisdiction over these matters.

In reviewing this RPS Procurement Plan, SDCP encourages the Commission to consider the considerable differences between California’s investor-owned utilities (“IOUs”) and other

retail sellers, including CCAs – differing levels of detail, procedure, complexity, and coordination are appropriate within the planning documents submitted by small, medium, and large organizations; and where the Commission may be inclined to identify informational deficiencies in certain areas (based on inevitable differences between content provided in the RPS Procurement Plans of California’s IOUs and CCA programs), SDCP encourages the Commission to consider whether it is appropriate to utilize a “one size fits most/all” approach in managing widely varying RPS planning and procurement obligations. While there may be some commonalities among planning and procurement practices reflected in the various RPS Procurement Plans submitted through this process, it is reasonable to assume that noteworthy differences may be prevalent, particularly when considering plans submitted by the IOUs and other retail sellers.

SDCP would also like to note that certain required elements of the RPS procurement planning process will evolve over time, particularly the organization’s approach to assessing risk and establishing RPS planning reserves (namely, any minimum margin of over-procurement that may be established by SDCP’s governing board). The 2023 RPS Procurement Plan includes information regarding SDCP’s implemented risk assessment process, including a description of its assessment methodology and a summary of related results. Such detail can be found in Section VII (below).

With regard to understanding the consequences of compliance shortfalls, SDCP is appreciative of both direct (*e.g.*, financial penalties and findings of non-compliance) and indirect impacts (*e.g.*, reputational damage that might accrue to participating communities or CCA organizations, generally) associated with such deficiencies and has chosen to pursue risk mitigation measures that are considerate of SDCP’s aversion to such risks, as well as the related

administrative complexity, cost and rigor that were deemed appropriate to achieve the desired level of mitigation. As SDCP's resource planning activities have evolved, it has become increasingly important to evaluate prospective RPS delivery uncertainty and compliance risk in a more deliberate and detailed manner. With this in mind, SDCP has developed a risk assessment methodology of its own, as further described below, that quantifies the risk of RPS-related delivery shortfalls to inform the sufficiency of its adopted minimum margin of procurement.

As noted in previous planning documents, SDCP remains attentive to evolving market pricing conditions and will continue to evaluate historical pricing within geographic areas where renewable energy procurement opportunities are being considered, so long as the settlement structures associated with such procurement opportunities expose SDCP to market-based pricing risk. For now, SDCP has elected to pursue risk mitigation measures that are focused on: 1) the identification of highly qualified renewable energy suppliers – based on SDCP's recently completed risk assessment and the assignment of risk ratings/scores related to key risk factors, the identification of highly experienced/well qualified RPS suppliers remains the most important consideration in ensuring that contracted RPS deliveries are fulfilled according to plan; 2) substantial levels of over-procurement created by SDCP's initial renewable energy procurement target that commences at 50 percent and increases over time to 100% by 2035; and 3) the pursuit of contract structures that minimize the risk of delivery shortfalls by providing SDCP with fixed delivery quantities and/or financial protections that generally offset the impacts of financial penalties (prescribed under the RPS Program) in the event of non- or under-delivery.

## **I. Major Changes to RPS Plan**

This Section describes the most significant changes between SDCP's Final 2022 RPS Procurement Plan and its Draft 2023 RPS Procurement Plan. A redline of this Draft 2023 RPS

Procurement Plan against SDCP’s Final 2022 RPS Procurement Plan is included as Appendix A.

The table below provides a list of key differences between SDCP’s 2022 RPS Procurement Plan and this Draft 2023 RPS Procurement Plan:

<b>Plan Reference</b>	<b>Plan Section</b>	<b>Summary/Justification of Change</b>
2023 RPS Procurement Plan: Introduction	Introduction	Updated to reference pertinent sections of the 2023 ACR that SDCP must address.
2023 RPS Procurement Plan: Section II	Executive Summary	Updated to reflect the changes made throughout other sections of this RPS Plan; updated to include SDCP’s approval as a program administrator of DAC-GT and CSGT in 2023.
2023 RPS Procurement Plan: Section IV.B.1	Long-Term Procurement	Updated with relevant supporting information on how SDCP’s ongoing procurement efforts are expected to meet the requirements of SB 350’s long-term contracting for Compliance Period 4 (2021-2024) and beyond, including references to the impacts of SDCP’s long-term VAMO elections on its RPS compliance obligations.
2023 RPS Procurement Plan: Section V	Project Development Status Update	Updated Appendix D to reflect the current status of SDCP’s new-build renewable generating projects.
2023 RPS Procurement Plan: Section VIII	Renewable Net Short Calculation	Updated Appendix C to reflect recent ongoing procurement efforts and prescribed changes to the planning period, which now extends through 2033.
2023 RPS Procurement Plan: Section XIV	Cost Quantification	Updated Appendix E to reflect ongoing procurement efforts and prescribed changes to the planning period, which now extends through 2033.

SDCP timely commenced CCA service in March 2021 – such timing was consistent with information reflected in SDCP’s Community Choice Aggregation Plan and Statement of Intent (“CCA Implementation Plan”), which was electronically served on all parties of record in

proceedings R.17-09-020, R.16-02-007, and R.03-10-003 on December 9, 2019 and subsequently certified by the Commission on March 9, 2020. Based on current load and customer forecasts, which now include assumptions related to expansion activities in 2023, SDCP plans to serve approximately 930,000 service accounts located within the cities of Chula Vista, Encinitas, Imperial Beach, La Mesa, National City and San Diego as well as the unincorporated areas of San Diego County (together, the “Member Agencies”), which are expected to consume approximately 8,400 GWh per year following completion of all customer phase-in activities in 2023.

## **II. Executive Summary**

San Diego Community Power is a CCA program that commenced retail electric service in March 2021 to certain customers located within the cities of San Diego, Encinitas, La Mesa, Chula Vista, and Imperial Beach. SDCP was formed when these five Member Agencies created a Joint Powers Authority, effective October 1, 2019.<sup>1</sup> SDCP submitted its CCA Implementation Plan, which was certified by the Commission on March 9, 2020, to address the anticipated consequences of CCA formation.<sup>2</sup> Since it commenced service in March 2021, SDCP successfully completed planned phase-in activities, which have increased the number of customer accounts as well as related retail electric energy requirements. As reflected in Appendix C, actual retail electricity sales in 2021 approximated 2,047,877 MWh and increased by approximately 175% to 5,624,296 MWh in 2022. By the end of 2023, SDCP plans to serve approximately 930,000 customer accounts.

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<sup>1</sup> See *Joint Powers Agreement*, San Diego Regional Community Choice Energy Authority, October 1, 2019, available at [https://www.sandiego.gov/sites/default/files/sdrceca\\_jpa\\_agreement\\_signed\\_0.pdf](https://www.sandiego.gov/sites/default/files/sdrceca_jpa_agreement_signed_0.pdf).

<sup>2</sup> See *Letter Certifying San Diego Community Power’s Implementation Plan and Statement of Intent*, California Public Utilities Commission, March 9, 2020.



In November 2021, SDCP’s Governing Board approved submittal of Addendum No. 1 to the Community Choice Aggregation Implementation Plan and Statement of Intent to Address Expansion to the City of National City and the unincorporated areas of San Diego County (“Addendum No. 1”); Addendum No. 1 was subsequently submitted to the Commission on December 22, 2021 and was also served to parties of record in proceedings R. 03-10-003, R.20-05-003, R.19-11-009, and R.21-10-002 on that day. Addendum No. 1 was later certified by the CPUC’s Energy Division on February 28, 2022. As the document’s title suggests, Addendum No. 1 addressed the expansion of SDCP’s service territory to include the noted municipalities with related customer service that commenced in April 2023. The increases in retail sales and related RPS purchases and procurement obligations associated with this expansion are reflected in SDCP’s RPS planning and procurement processes, as well as in Appendix C of this Plan.

At launch, SDCP’s governing board approved a minimum 50 percent renewable energy supply portfolio for all participating customers with a 100 percent renewable retail service option available on a voluntary basis. These retail service offerings have been named “PowerOn” and “Power100,” respectively. The minimum quantity of renewable energy delivered to SDCP customers is expected to increase over time, moving to 85 percent by 2030, and 100% by 2035, as reflected elsewhere in this document and its appendices. During its renewable energy procurement efforts, SDCP has focused exclusively on Portfolio Content Category (“PCC”) 1 and 2 product types (with a strong preference for PCC1 products).<sup>3</sup> This considerable commitment to renewable energy procurement is expected to result in meaningful planning reserves, which will provide compliance buffers in the event that contracted renewable

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<sup>3</sup> See *San Diego Community Power Community Choice Aggregation Implementation Plan and Statement of Intent*, December 9, 2019, available at <http://sdcommunitypower.org/resources/key-documents/>.

energy purchases are not fulfilled as expected – this topic is further discussed in relation to SDCP’s adopted voluntary margin of over-procurement (“VMoP”). To address RPS compliance risk, SDCP uses its risk assessment, including its renewable net short calculations, to establish a Minimum Margin of Procurement (“MMoP”) to guide RPS compliance procurement planning. SDCP calculated its MMoP using a 10% risk adjustment that was applied to SDCP’s minimum internally adopted RPS procurement targets (set at 50% upon program launch in 2021, increasing to 85% by 2030, and 100% by 2035). SDCP’s internally adopted renewable energy procurement goals provide a meaningful buffer above the state’s RPS requirements and serve as VMoP, which will exceed statewide RPS mandates by at least 15 percent in each year of the planning period, which now extends through 2033. Considered in concert, SDCP’s VMoP and MMoP provide a substantial aggregate renewable energy planning buffer, virtually eliminating the possibility of compliance shortfalls during continued SDCP operation.

SDCP also acknowledges that its renewable energy targets and related planning reserves could be periodically evaluated and adjusted by its governing board – such a determination could be based on the manner in which actual renewable energy purchases/deliveries relate to applicable mandates and internally adopted targets, project development progress for new-build renewable generating facilities, generalized renewable product availability, the extent to which prospective RPS deliveries under the Voluntary Auction – Market Offer (“VAMO”) process conform with related projections, load variability that may occur during customer enrollment periods, budgetary impacts, and/or various other considerations.

Reducing electric utility sector greenhouse gas (“GHG”) emissions generated by residents and businesses within SDCP’s Member Agencies was a driving factor in the formation

of SDCP. Climate Action Plans (“CAP”) adopted by SDCP’s Member Agencies establish a variety of GHG reduction and clean energy goals within their respective jurisdictions as detailed in Section IV.B.ii (below). The Member Agencies intend to contribute to achieving their CAP goals collaboratively by operating SDCP to provide electric energy to residential, commercial and governmental electric accounts located within their communities.

SDCP’s negotiation efforts have resulted in the execution of seven unique long-term PCC1 supply agreements thus far, which include: 1) a long-term (20-year) PCC1 supply agreement with Vikings Energy Farm, LLC, executed on May 3, 2021, which will cause the delivery of approximately 250,000 MWh per year of renewable energy produced by a new 132 megawatt photovoltaic solar array (plus battery storage) located in Imperial County that is expected to commence commercial operation in September 2024; 2) a long-term (20-year) PCC1 supply agreement with JVR Energy Park, LLC, executed on June 4, 2021, which will cause the delivery of approximately 260,000 MWh per year of renewable energy produced by a new 90 megawatt photovoltaic solar array (plus battery storage) located in San Diego County that is expected to commence commercial operation in October 2026; 3) a long-term (15-year) PCC1 supply agreement with IP Oberon, LLC, executed on June 11, 2021, which will cause the delivery of approximately 225,000 MWh per year of renewable energy produced by a new 75 megawatt photovoltaic solar array located in Riverside County that is expected to commence commercial operation in July 2023; 4) a long-term (10-year) PCC1 supply agreement with Duran Mesa LLC, executed January 27, 2022, which will cause the delivery of approximately 170,000 MWh per year of renewable energy produced by 50 MW of new wind capacity located in Torrance County, New Mexico that achieved commercial operation (on November 30, 2021, as reflected in the California Energy Commission’s associated certificate for this project) and began

delivering power to SDCP on February 1, 2022; 5) Burney a long-term (5-year) PCC1 supply agreement with Pacific Gas and Electric Company, executed on September 30, 2022, for an existing 29 megawatt biomass renewable generation facility located in Burney, CA that is on-line; 6) a long-term (20-year) PCC1 supply agreement with Orni 30 LLC, executed on June 29, 2023, for a new 42 megawatt photovoltaic solar array (plus 35 MW battery storage) located in Imperial County that is expected to commence commercial operation in April 2025; and 7) a long-term (20-year) PCC1 supply agreement with Yellow Pine Solar III, LLC, executed on July 3, 2023, for a new 35 megawatt photovoltaic solar array (plus 35 MW battery storage) located in Clark County, Nevada that is expected to commence commercial operation in October 2025.

SDCP has issued long-term RPS solicitations in of the fourth quarter of 2022 and the first quarter of 2023 resulting in substantial interest from qualified suppliers of renewable products, as well as stand-alone storage. These efforts are in addition to bilateral negotiations, focusing on local procurement in San Diego and Imperial Counties, or expressly, renewable developments and their proximity to our member communities.

SDCP also completed bilateral negotiations of a long-term contract for bundled renewable energy supply from San Diego Gas & Electric (“SDG&E”), the incumbent IOU, and its portfolio of long-term renewable energy contracts. The unique structure of this contract is intended to serve as a vehicle via which SDCP can purchase from SDG&E its elected allocation of bundled, long-term renewable energy; that is, the contract sets a baseline annual volume of bundled, renewable deliveries between 2022 and 2033, which has been adjusted to reflect SDCP’s allocation volume as determined through the VAMO mechanism. SDG&E filed the resulting contract for Commission approval in SDG&E AL 3936-E, which was subsequently received on May 19, 2022. This agreement will meaningfully increase SDCP’s long-term PCC1

position in Compliance Period 4 (“CP4”, 2021-2024) and beyond. In addition, SDCP participated in the Long-term and Short-term Market Offer (MO) process of the three IOUs in 2023. SDCP was awarded a Long-term and a Short-term allocation of the remaining Long-term Portfolios of both SDG&E and PG&E, deliveries pending CPUC Tier 1 and Tier 3 approval respectively. SDCP anticipates these deliveries to begin in 2023.

To encourage local development of renewable energy and carbon-free free energy storage projects and to inform upcoming solicitations by better understanding current opportunities for contracting such facilities, SDCP issued a Request for Information for Local Renewable Energy and Energy Storage (“Local RFI”) in August 2021. The RFI was updated in early 2023 to extend the eligibility of commercial operation dates. The Local RFI is a rolling RFI accepting applications for review year-round. SDCP is evaluating proposals and negotiating power purchase agreements with multiple prospective long-term PCC1 suppliers. Because such contracting opportunities remain under negotiation and are confidential, SDCP is unable to further elaborate until these contracts have been finalized, approved and executed.

To further encourage local development, SDCP is also implementing solicitations for the Disadvantaged Communities - Green Tariff (“DAC-GT”) and Community Solar Green Tariff (“CSGT”). On September 29, 2021, SDCP filed its Tier 2 Advice Letter (“AL”) with the Commission requesting a capacity transfer from SDG&E under the DAC-GT and CSGT based on the disadvantaged communities located within founding member agencies of SDCP. The Commission accepted and approved SDCP’s capacity transfer request on October 29, 2021. SDCP submitted its implementation advice letter on October 12, 2022, seeking approval of the proposed programs and obtaining the status of a program administrator (“PA”). As part of the implementation advice letter, SDCP sought additional capacity transfer from disadvantaged

communities located in National City, a new member city that was added to SDCP's joint powers authority ("JPA") after SDCP submitted AL 4-E.

On March 16, 2023, the California Public Utilities Commission ("CPUC") voted to adopt Resolution E-5246 on SDCP's DAC-GT and CSGT Implementation AL. As noted in the regulatory and legislative staff report for the February 2023 meeting of the Board of Directors Resolution approves SDCP's Tier 3 Implementation Advice Letter to become a PA of the DAC-GT and CSGT programs and the additional allocation of 15.78 MW for DAC-GT and 4.38 MW, adjusted for National City. SDCP did not include the General Cost Delta or 20% Bill Discount in the Program Year ("PY") 2023 to 2024 Budget Forecast due to a lack of eligible interim resources. As a result, SDCP will auto-enroll customers when new projects come online in 2025.

On May 19, 2023, SDCP submitted a Tier 2 AL 13-E, seeking CPUC approval for SDCP's DAC-GT and CSGT solicitation materials. The DAC-GT and CSGT solicitation documents include the Request for Offer (RFO) Protocol, Term Sheet, and Generation Offer Form. The Commission approved the material in June 2023 and SDCP will release the DAC-GT and CSGT solicitation documents in August 2023.

SDCP expects to administer other solicitations for short- and long-term renewable energy supply, as well as other procurement activities, that will be necessary to meet its adopted portfolio objectives. Completed and upcoming renewable energy planning and procurement activities administered by SDCP include the following:

- 1) COMPLETE – approval of SDCP's Feed-In Tariff Program ("FIT") was received and this program is now active. SDCP's FIT program is expected to support locally-situated, small-scale RPS-eligible renewable energy projects, which will marginally increase long-term PCC1 supply while supporting local economic

development activity and workforce utilization. Additional detail regarding SDCP's FIT program is available via the following link:

<https://sdcommunitypower.org/programs/feed-in-tariff/>;

- 2) COMPLETE – SDCP participated in the joint IOU Market-Offer process and was awarded short-term and long-term portions of SDG&E and PG&E's Long-term Portfolio.
- 3) COMPLETE - SDCP released a targeted solicitation for long-term, new-build supply from "clean firm" renewable energy sources in Q2 2022, which SDCP staff expect to be fueled by geothermal or bioenergy renewable energy, to be online by 2026 to meet the relevant requirements within the CPUC's Mid-Term Reliability ("MTR") procurement order. The MTR order has now extended this target to 2028. SDCP is negotiating one PPA from the 2022 clean firm RFO and expects to launch another RFO for such resources in the coming years.
- 4) COMPLETE – SDCP released a 2022 RFP for Long-term California RPS-Eligible Energy in October 2022, for deliveries commencing prior to December 31, 2026. One PPA has been executed to date from this RFP. Further PPA negotiations and subsequent executions are on target within Q3 2023.
- 5) COMPLETE – SDCP released a 2023 Request for Proposals for Long-term California RPS-Eligible Renewable Energy in January 2023, for deliveries commencing prior to December 31, 2028. SDCP is in active negotiations with short-listed developers. PPA executions are expected within the 2023 calendar year. May 2023 – SDCP issued a 2023 Request for Offers for Standalone Storage - criteria being that storage assets will commence delivery prior to December 31,

2028. SDCP will begin short-list notifications in Q2 2023.

- 6) Ongoing – SDCP issued a 2021 Request for Information for Local Renewable Energy and Energy Storage. The RFI was updated in early 2023 to extend the eligibility of commercial operation dates. The Local RFI is a rolling RFI accepting applications for review year-round. Being an ongoing solicitation, and receiving interest from numerous developers, SDCP is actively evaluating and negotiating these projects.
- 7) Ongoing - Q2 2022 – SDCP has administered short-term RPS solicitations to fill known open positions related to RPS products. Contracts have been executed with short-listed suppliers and expected deliveries are now reflected in Appendix C of this Plan. SDCP will continue to administer solicitations for such products, as necessary, and will update future planning documents to the extent such solicitations result in additional procurement;
- 8) Ongoing - In Q2 2023 SDCP released a targeted solicitation for stand-alone storage (“SAS”) projects including long-term, new-build “long duration storage” capacity to be online by 2026/2028 to meet the relevant requirements within the CPUC’s Mid-Term Reliability (“MTR”) procurement order. SDCP recently short-listed projects and will be engaging in contract negotiations in 2023.
- 9) Planned - SDCP expects to administer a DAC-GT & CSGT solicitation in Q3 2023.
- 10) Planned – SDCP expects to administer additional RPS and SAS RFO in 2024 and 2025.



SDCP is also aware that renewable energy procurement activities must be timely completed to ensure the achievement of noted renewable energy targets, so it intends to continue coordinating such activities with customer phase-in activities, as noted above. These procurement efforts will be focused on securing necessary short-term and long-term renewable energy supply, the latter of which will be intended to facilitate compliance with California’s 65 percent long-term contracting requirement, which became effective in 2021. SDCP acknowledges that certain long-term renewable contracting opportunities may require substantial lead time, particularly opportunities related to new-build renewable generating facilities. SDCP is aware that there may be lingering impacts of the pandemic on new-build renewable generating projects which may be heavily reliant on international supply chains to ensure timely completion. There are challenges in determining the extent to which such effects will be experienced by SDCP and other buyers, but SDCP hopes to learn more by monitoring development progress of new renewable generating facilities that have been recently placed under contract. With time, SDCP remains optimistic that it will be able to facilitate a meaningful level of new renewable infrastructure buildout through its ongoing renewable energy contracting efforts and expects to confirm such expectations as it moves forward.

During administration of its ongoing renewable energy solicitation activities, SDCP will gauge prospective supplier interest and potential concerns associated with new CCA programs and long-term supply commitments – the long-term contracting requirement and its lack of an “on ramp” for new retail sellers is expected to necessitate the execution of several long-term renewable energy supply commitments with product delivery to begin shortly after CCA service commencement. SDCP’s long-term bundled transactions with Duran Mesa Wind and SDG&E are two necessary steps to secure such supply commitments as part of its resource planning and

RPS compliance activities. SDCP is aware of potential repercussions associated with RPS compliance shortfalls and, with such concerns in mind, is committed to pursuing RPS contracting opportunities that will satisfy pertinent mandates, plus sufficient planning reserves.

As part of its ongoing planning process, SDCP is also considering the manner in which renewable energy compliance risks will be assessed and mitigated. One key element of this process included the adoption of a formal Energy Risk Management Policy (“ERM Policy”)<sup>4</sup>, which occurred at the regularly scheduled meeting of SDCP’s governing board on June 25, 2020. The ERM Policy addresses various types of risk and establishes related oversight in managing SDCP’s various portfolio positions, control procedures and delegations of authority (related to the procurement of various energy and capacity products). SDCP’s ERM Policy also necessitates formation of a Risk Oversight Committee (“ROC”), which meets on a regular basis to monitor SDCP’s procurement efforts, open positions, counterparty credit exposure and other concerns. Staff provides SDCP’s ROC with various deal tracking and position reports to keep program management apprised of ongoing progress in meeting statewide compliance mandates and SDCP’s internally adopted renewable planning targets, which exceed statewide mandates. The ROC also receives updates regarding the development progress of new-build renewable generating facilities that are expected to contribute to SDCP’s RPS compliance mandates. In addition to the noted ERM Policy and ROC, SDCP’s Managing Director of Power Services oversees the day-to-day management of resource planning, power supply acquisition, and related compliance activities and ensures ongoing coordination with SDCP’s suppliers.

Initial discussion among SDCP’s executive leadership, power services staff, technical advisors, and Finance and Risk Management Committee (another SDCP committee intended to

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<sup>4</sup> See [San Diego Community Power Energy Risk Management Policy](#), June 25, 2020.

monitor program finances and risk) suggests that managing early-stage compliance risk is dependent upon the identification and selection of highly experienced and financially viable sellers during the administration of renewable energy solicitation processes. This understanding is supported by conversations with leadership of longer-standing California CCAs, which emphasized the importance of such an approach during renewable energy procurement efforts; such CCAs noted that the timing of early-stage RPS planning and procurement efforts (and the proximity of such efforts relative to imposition of the 65% long-term contracting mandate) necessitated considerable reliance on: 1) existing renewable generating facilities; and/or 2) highly experienced project developers with strong track records of timely project completion. At this time, SDCP's contracting efforts have reduced, if not eliminated, any compliance shortfall risk. The remaining RPS-related risk to SDCP is only related to additional voluntary RPS procurement targets. SDCP remains confident that current renewable energy open positions, again only related to the voluntary procurement targets, will be significantly reduced in the near future. Given SDCP's gross RPS procurement needs and existing procurement efforts, a quantitative risk assessment was recently completed by SDCP. The results of such assessment are presented below, including a description of the methodology used to complete it. As SDCP continues to update its risk assessment based on future contracting efforts and its impressions of various sources of RPS delivery risk, it will elaborate on its findings in future RPS Procurement Plans.

SDCP will carefully monitor the performance of selected renewable energy suppliers relative to projected RPS requirements and will augment procurement efforts in the event that actual renewable deliveries fall below projections. Based on SDCP's minimum 50 percent renewable procurement target, the organization could suffer significant delivery shortfalls while

still satisfying statewide compliance mandates.

### **III. Summary of Legislative Compliance**

This RPS Procurement Plan addresses the requirements of all relevant legislation and the Commission's regulatory framework. This Section describes the relevant statutory and regulatory requirements and how this RPS Procurement Plan demonstrates that SDCP will meet such requirements.

Senate Bill ("SB") 350 (stats. 2015) was signed by the Governor on October 7, 2015. SB 350 set a new RPS procurement target of 50 percent by December 31, 2030. On December 20, 2016, the Commission issued D.16-12-040, which partially implemented the increased targets of SB 350 by establishing new compliance periods and procurement quantity requirements. On July 5, 2017, the Commission issued D.17-06-026, which implemented some of the key remaining elements of SB 350, including adopting new minimum procurement requirements for long-term contracts and owned resources, as well as revising the excess procurement rules.

SB 100 was signed by the Governor on September 10, 2018, and became effective on January 1, 2019. SB 100 increased the RPS procurement requirements to 44 percent by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. On June 6, 2018, the Commission issued D.18-05-026, which implemented changes made by SB 350 to the RPS waiver process and reaffirmed the existing RPS penalty scheme. In July of 2018, the Commission instituted Rulemaking 18-07-003 to continue the implementation of the RPS program. On June 28, 2019, the Commission issued D.19-06-023, which continues to use a straight-line method to calculate compliance period procurement quantity requirements.

The current RPS procurement targets are incorporated into SDCP's Renewable Net Short Calculation Table as described in Section VIII below and attached as Appendix C. SDCP's

planned procurement, as reflected in SDCP's Renewable Net Short Calculation Table and described in Sections IV and V, is expected to exceed pertinent RPS procurement mandates, including a minimum margin of over-procurement based on SDCP's risk assessment, as further described in Sections VII and IX. SDCP also expects to meet California's SB 350 long-term procurement requirement, as described in Sections V and VII, through the completion of current contract negotiations and any long-term RPS solicitation processes that may be administered thereafter.

SB 901, signed by Governor Brown on September 21, 2018, added Public Utilities Code section 8388, which requires any IOU, publicly owned electric utility, or CCA with a biomass contract meeting certain requirements to seek to amend the contract to extend the expiration date to be five years later than the expiration date that was operative as of 2018. SDCP does not have a contract with a biomass facility that is covered by Public Utilities Code section 8388.

SB 255 (stats. 2020, ch. 407) amended Public Utilities Code § 366.2 to require certain CCAs to annually submit to the Commission the following: (i) a plan for "increasing procurement from small, local, and diverse business enterprises in all categories, including, but not limited to, renewable energy, energy storage system, and smart grid projects," and (ii) a report regarding the CCA's "procurement from women, minority, disabled veteran, and LGBT business enterprises in all categories, including, but not limited to, renewable energy, energy storage system, and smart grid projects." SDCP's compliance with SB 255 is described in Section X.B below.

Assembly Bill ("AB") 843, signed by the Governor on September 23, 2021, authorizes CCAs to participate in the Bioenergy Market Adjusting Tariff ("BioMAT") program if capacity is available under the program cap. SDCP does not have any immediate plans to participate in

the BioMAT program, but may reevaluate this decision as part of its future planning for additional renewable procurement, which may also focus on locally-situated biomass and/or biofuel resources outside of the BioMAT program.

SB 1020, referred to as “Clean Energy, Jobs, and Affordability Action of 2022,” sets a statewide goal of one hundred percent zero-carbon electricity by 2045. SB 1020 also directed every state agency to ensure that zero carbon resources and eligible renewable energy resources supply one hundred percent of the electricity procured on its behalf by 2035. These state agencies are specifically directed to meet this 2035 target through any or all of the following options: (i) installing behind the meter resources, (ii) procuring zero-carbon or eligible renewable energy resources through the POU, IOU, CCA, or ESP that is providing retail service to that state agency, or (iii) participating in a qualifying voluntary shared renewable or green pricing program. SDCP is in the early stages of identifying and coordinating with any state agency customers regarding their planned compliance with SB 1020. SDCP will provide a more detailed update on the impacts of SB 1020 to its RPS procurement planning efforts in a subsequent RPS Procurement Plan.

#### **IV. Assessment of RPS Portfolio Supplies and Demand**

##### **IV.A. Portfolio Supply and Demand**

As previously noted, SDCP successfully initiated customer service in March 2021. Following the completion of expansion activities in 2023, SDCP will serve approximately 930,000 service accounts, which are expected to consume about 8,400 GWh per year. SDCP has now executed seven long-term PCC1 supply contracts that will result in the delivery of approximately 1,364 GWh per year following the successful commercial operation of related renewable generating projects and SDCP’s election of long-term PCC1 and PCC0 supply

contracts via VAMO allocations will result in the delivery of over 2,900 GWh per year. SDCP's contracting of other IOU renewable portfolio products, through market offer solicitations, will only add to this procurement amount. One of the new-build projects will utilize photovoltaic solar generating technology, while the other four new-build projects will utilize photovoltaic solar generating technology combined with battery storage to allow for re-shaping of project energy deliveries.

Additional contracting efforts remain in process with additional solicitations scheduled in the future. Following the completion of negotiation activities associated with any long-term renewable supply agreement, the final contract(s) will be brought before SDCP's governing board for approval and, if approved, will be executed thereafter. Short-term renewable supply agreements may be executed by SDCP's Chief Executive Officer pursuant to delegated contracting authorities – the limitations associated with such contracting authorities are reflected in SDCP's Energy Risk Management Policy.

Over time, SDCP expects to continue meeting pertinent RPS compliance obligations by entering into a variety of renewable energy supply agreements of varying term lengths and structures. The exact portfolio characteristics selected may vary depending on direction received from SDCP's governing board, renewable resource availability, procurement costs, legislative and policy changes, technological improvements, principles of resource diversity, preferences of the Member Agencies and/or other developments. To manage this future uncertainty, SDCP will regularly evaluate anticipated supply requirements in consideration of expected customer electricity usage and anticipated renewable energy deliveries; such information is expected to influence future procurement efforts, which will attempt to balance customer usage with requisite resource commitments. SDCP is also aware of the need to promote the use of a diverse

renewable resource portfolio, avoiding overcommitting to certain generating technologies, suppliers, geographic regions, etc. For now, the organization must remain open minded and considerate of all possible supply options. SDCP must also proceed with its RPS planning and procurement activities under a “compliance first” mindset with the primary goal of securing necessary RPS supply (both long-term and short-term) from available generating sources – because financial penalties (related to compliance shortfalls) under the RPS program are not waived or reduced in consideration of portfolio characteristics (such as technology and/or geographic diversity), it is advisable for new retail sellers, including SDCP, to primarily focus on securing requisite volumes, even if the majority of such volumes happen to be associated with a specific technology type or geographic region. This noted, SDCP will continue to make reasonable efforts to promote resource diversity during its renewable energy planning and procurement processes, and if such processes do not result in the desired level of resource diversity, SDCP will craft future solicitations to promote renewable energy portfolio diversity. For now, SDCP has successfully secured renewable energy deliveries that utilize wind, solar, “solar plus battery storage”, the latter of which will allow SDCP to reshape typical solar production to better align with customer energy use and market price signals.

The ongoing examination of customer electricity usage and other market developments should help reduce costs and assist in meeting planned procurement for the period reflected in this RPS Procurement Plan. SDCP notes that understanding customer electricity usage may be more challenging than usual during phased in operations (when CCA participations rates can exhibit a certain level of volatility) and expansion activities. These challenges could be exacerbated by the implementation of fiscal policy changes intended to curb inflation (via phased interest rate increases) that may impose recessionary pressures on the economy. If recessionary



markers start to surface, including reduced spending, business closures, constrained access to credit, etc., SDCP will attempt to evaluate the extent to which future customer energy usage may be affected. Regarding demand side impacts, these are often more challenging to isolate, as normal variations in usage caused by weather may obscure otherwise atypical variations in consumption. For renewable energy planning purposes, SDCP's primary retail sales forecast adjustments have been related to expected customer enrollments without noteworthy adjustments related to these circumstances. To the extent that retail sales fall below SDCP's expectations, it is likely that renewable energy content will be higher than necessary to promote achievement of programmatic goals. In such cases, SDCP expects that it could: 1) sell excess renewable energy supply to interested buyers, thereby rebalancing its portfolio to align with desired renewable energy targets; 2) retain excess renewable energy supply, providing customers with higher-than-promised renewable energy supply; or 3) explore other options/flexibility that may be available under California's RPS program to utilize excess volumes in another calendar year or compliance period. Such decisions will be made following consultation with SDCP's governing board, staff and technical advisors.

SDCP is also attempting to gain an improved understanding of the prospective impacts to its customer base associated with the potential reopening of California's direct access market due to SB 237 (2018) and D.19-05-043. In D.21-06-033, the Commission recommended against expanding direct access at this point, however, SDCP recognizes that this may change in the future. As such, SDCP will monitor the proceeding to determine potential impacts to its planning process. To the extent that SDCP load migrates to direct access providers, its retail sales would likely fall – in theory, such a change would increase SDCP's proportionate renewable energy content unless surplus supply was sold to other market participants; this

would be similar to the impacts experienced by California’s IOUs, which have resulted from ongoing CCA implementations and expansions – following these activities, the proportionate RPS content of each IOU has increased, as evidenced in the annual Power Source Disclosure Report of each IOU (for reference, this has occurred in spite of IOU-administered solicitations intended to sell off surplus RPS supply, which suggests that other retail sellers, particularly CCAs, have already made meaningful progress in meeting applicable RPS mandates in the near-term planning horizon). To the extent that any direct access-related adjustments are incorporated in SDCP’s RPS planning processes, it will reflect them in a subsequent RPS Procurement Plan. Through the ongoing evaluation of customer demand and other market developments, SDCP hopes to promote reduced overall costs while meeting planned procurement objectives for the period addressed in this RPS Procurement Plan.

#### **IV.A.1. Voluntary Allocation and Market Offer (VAMO)**

The Final Report of Working Group 3 Co-Chairs: Southern California Edison Company, CalCCA, and Commercial Energy (“Final Report”) was filed on February 21, 2020, in the Commission’s PCIA rulemaking (R.17-06-026). One of the Final Report’s key proposals was for the Commission to create a VAMO framework, where each LSE serving customers subject to the PCIA would be provided an annual option to receive an allocation (“Voluntary Allocation”) from the IOUs’ PCIA-eligible RPS energy portfolios, based on that LSE’s forecasted, vintaged, load share, and subject to certain conditions. Further, the Final Report proposed that any declined shares would be offered to LSEs through a market process (“Market Offer”).

On May 20, 2021, the Commission adopted D.21-05-030, addressing the proposals in the Final Report. D.21-05-030 adopted the Final Report's VAMO proposal, subject to certain limitations and additional requirements. To implement this modified VAMO structure, D.21-05-030 identified various next steps, including IOUs providing LSEs their allocation share based on vintaged, annual load forecasts, and the submission of an advice letter to receive approval for pro forma contracts. LSEs were required to finalize elections and execute contracts with their respective IOU by July 29, 2022. D.22-06-034 provided additional guidance on the VAMO process and Resolution E-5216 approved the IOUs' pro forma contracts for the voluntary allocations. The Commission also approved D.22-11-021, which modified the process and timeline for the IOUs' Market Offer solicitations.

SDG&E offered SDCP an allocation share consisting of two different pools of resources: long- and short-term. The long-term pool consists of resources with more than 10 years left on their contracts whereas the short-term pool consists of resources that have less than 10 years left on their contracts. SDCP elected to receive 100 percent of its available long-term renewable energy voluntary allocation from SDG&E and none of the short-term allocation share. The table below details SDCP's long-term PCC1 and PCC0 supply contracts via VAMO elections.

It is noteworthy that SDCP's long-term supply agreement with SDG&E includes annual delivery quantities that will be adjusted based on SDCP's VAMO elections. As such, the annual delivery quantities reflected in the existing contract has been replaced by such VAMO allocations, as estimated below (based on information previously provided by SDG&E). Note that the aggregate long-term renewable energy volumes reflected in this table meaningfully exceed volumes reflected in SDCP's original long-term renewable supply agreement with SDG&E (by more than 200%, on average), which will provide SDCP with much more long-term

bundled renewable energy supply in 2023 and beyond, relative to planning projections that preceded SDCP's VAMO elections.

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Expected Long-Term PCC0 MWh to be received via SDG&E VAMO election	359,534	359,534	359,534	359,534	359,534	359,534	359,534	359,534	359,534	359,534	283,000
Expected Long-Term PCC1 MWh to be received via SDG&E VAMO election	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,403,000

SDCP participated in both the Short-term Market Offer process, as well as the Long-term Market Offer process of all three IOUs in 2023. SDCP was not awarded any volumes from any of the IOUs in the Short-term MO, though were awarded a short-term allocation of PG&E's Long-term Portfolio, as well as a long-term allocation of PG&E's Long-term Portfolio. Also, SDCP was awarded a short-term allocation of SDG&E's Long-term Portfolio, as well as a long-term allocation of SDG&E's Long-term Portfolio.

#### PG&E

1. Short-term allocation of Long-term Portfolio
  - 25%
  - 2023-2024 (Tier 1 CPUC approval – CY 2024)
2. Long-term allocation of Long-term Portfolio
  - 7%
  - 2023-2043 (Tier 3 CPUC approval – 2043, or termination of longest PPA in PG&Es Long-term Portfolio)

#### SDG&E

1. Short-term allocation of Long-term Portfolio

- 65%
  - 2023-2024 (Tier 1 CPUC approval – CY 2024)
2. Long-term allocation of Long-term Portfolio
- 35%
  - 2023-2040 (Tier 3 CPUC approval – 2040, or termination of longest PPA in SD&Es Long-term Portfolio)

#### **IV.A.2. Portfolio Optimization**

SDCP’s goal is to meet organizational policies, reliability requirements, and statewide procurement mandates in a manner that is both cost effective and supportive of a well-balanced resource portfolio. Portfolio optimization strategies can help reduce costs and should facilitate alignment of SDCP’s portfolio of resources with its forecasted load needs. To support this goal, SDCP considers the following strategies:

**Purchases from Retail Sellers:** Purchases of RPS-eligible renewable energy (via resale) from other retail sellers can provide a cost-effective way of meeting short-term resource needs or filling in gaps in procurement while long-term projects are under development.

**Sales Solicitations:** As SDCP’s portfolio of resources continues to develop, it will also consider offering solicitations of sales to other retail sellers, if the disposition of surplus is deemed desirable. SDCP’s willingness to pursue such sales will be dependent upon its ongoing monitoring of RPS positions, prospective sales pricing and direction received from its Governing Board and executive management.

**Optimizing Existing Procurement:** As SDCP considers its long-term resource needs, it may evaluate options in its future power purchase agreements to increase the output of existing generating facilities through technological upgrades, by adding new capacity to

an existing generator or by adding energy storage infrastructure to an existing renewable generator. Expanding existing facilities may provide additional generation at reduced costs with lower risks of project failure because the need for distribution system upgrades and permitting may be reduced – such opportunities may be pursued/developed, as deemed appropriate by SDCP. The addition of energy storage infrastructure to an existing renewable generator would be expected to enhance grid reliability as well as the value of electric energy produced by the generating facility, as the pre-storage energy delivery profile could be shifted to: 1) better align SDCP’s supply with customer demand; or 2) create more value for SDCP customers by shifting electric energy deliveries to a time of day when market revenues received would be greater. In terms of reliability impacts related to the addition of energy storage infrastructure, SDCP expects that such enhancements would meaningfully increase the proportionate level of resource adequacy capacity that could be derived from an intermittent renewable generating resource without such storage infrastructure – reductions to the net qualifying capacity of intermittent renewable generating resources are well documented and ongoing, resulting in very little capacity benefits from solar-only generating projects. In considering these sorts of enhancements, SDCP will be mindful of the need to coordinate with its resource owners/operators to evaluate potential planning constraints (related to generator interconnection, for example) before assuming that the addition of energy storage infrastructure at an existing generating facility would be a viable option.

**Holistic Portfolio Design and Procurement Strategy:** In light of the multiple procurement-related compliance requirements with which California LSEs must comply – RA (administered both by CAISO and CPUC), Integrated Resource Planning (D. 19-

11-016, Mid-Term Reliability, etc.), RPS (including long-term contracting requirements), in addition to any LSE-specific incremental or voluntary program goals – SDCP is mindful to take a holistic approach to procurement efforts. Targeting resources that can satisfy multiple compliance or voluntary objectives provides for more efficient and cost-effective procurement than alternative approaches that may target individual compliance products or requirements one-by-one without consideration of synergies or economies of scale that may result from resources that can deliver products to satisfy multiple program requirements and evaluating projects and proposals as such to ensure that the co-benefits and efficiencies of such procurement are correctly incorporated.

On June 24, 2021, the Commission adopted D.21-06-035, which directed all retail sellers to procure 11,500 MW of new net qualifying capacity (“NQC”) between 2023 and 2026 and assigned each retail seller a specific procurement responsibility based on its share of peak demand. SDCP’s total obligation is 570 MW, which must include minimum amounts of procurement from certain subcategories: (1) 124 MW from firm, zero-emitting capacity by 2025; (2) 50 MW from long duration storage resources by 2028; and (3) 49 MW from firm, non-fossil fueled baseload generating resources by 2028. Pursuant to the allowance in D.21-06-035 for retail sellers within the same Transmission Access Charge (“TAC”) area to reallocate procurement obligations upon mutual agreement, SDCP and SDG&E have collaborated to revise their obligations in D.21-06-035, which were based on preliminary load forecasts that have since been refined. SDG&E filed the revised, mutually agreed capacity requirements to the CPUC on March 16, 2022 via Advice Letter 3967-E. This advice letter has since been suspended and awaits further commission review and action. SDCP expects that approval of this reallocation of obligations will be completed within the coming weeks. Once procurement obligations have

been finalized, SDCP will review progress toward targets in each of the subcategories. SDCP expects that contracts executed pursuant to its 2020 Long-term RPS solicitation will fulfill a portion of 2023 and 2024 obligations, supplemented by additional volume from contracts currently under negotiation. SDCP's Long-term RPS solicitations in 2022 and 2023 focused on meeting any remaining procurement obligations from D.21-06-035.

#### **IV.B. Responsiveness to Local and Regional Policies**

##### **(i) Responsiveness to Policies of SDCP's Governing Board**

SDCP is a joint powers authority that is subject to the control of its governing board and is directly accountable to its Member Agencies. SDCP supports and is committed to meeting the state's GHG reduction and renewable procurement goals, as well as supporting its Member Agency cities in meeting their respective CAP goals. Furthermore, and as noted elsewhere in this RPS Procurement Plan, SDCP has adopted near-term renewable portfolio targets that meaningfully exceed RPS mandates, offering a minimum 50 percent renewable energy content through its default retail service offering. SDCP has also determined to: 1) forgo the purchase of PCC3 products; and 2) limit the use of PCC2 products (in favor of PCC1 products), subject to product availability and budgetary impacts. SDCP's Governing Board has decided to structure its RPS portfolio with these considerations in mind, as such an approach is expected to minimize attributed GHG emissions associated with its reported energy purchases (under California's Power Source Disclosure Program). SDCP has a complementary carbon-free portfolio metric of 55 percent, so any renewable energy purchase will be evaluated in light of the incremental impacts to SDCP's anticipated emission rate – SDCP understands that all PCC3 and most PCC2 product purchases (subject to substitute energy specifications) will increase its overall emission factor. In addition to state mandates and meeting the respective CAP goals of SDCP's Member



Agencies, as detailed below, on June 23, 2022, SDCP’s Governing Board adopted additional targets for its energy portfolio development, including: goals of 50 percent renewable energy content in 2022, 75 percent in 2027, 85 percent in 2030 and 100 percent in 2035; 15 percent of energy portfolio capacity from new, distributed infill storage or solar plus storage resources within Member Agencies’ territory by 2035; and 600MW of new utility scale projects within San Diego and Imperial Counties by 2035, all of which will impact SDCP’s energy portfolio strategies.

SDCP is also implementing solicitations for the Disadvantaged Communities - Green Tariff (“DAC-GT”) and Community Solar Green Tariff (“CSGT”). On May 19, 2023, SDCP submitted a Tier 2 AL 13-E, seeking CPUC approval for SDCP’s DAC-GT and CSGT solicitation materials. The DAC-GT and CSGT solicitation documents include the Request for Offer (RFO) Protocol, Term Sheet, and Generation Offer Form. The Commission approved the material in June 2023 and SDCP will release the DAC-GT and CSGT solicitation documents in August 2023.

(ii) Responsiveness to Regional Policies

As noted in the previous sub-section, SDCP is overseen by its governing board. As such, the policies adopted by SDCP’s governing board serve as guiding directives for CCA operations, including the determination of renewable energy planning targets that are intended to support local policy preferences. Reducing electric utility sector GHG emissions generated by residents and businesses was a driving factor in the formation of SDCP, as well as investing in the community through local projects. The City of San Diego adopted its CAP in December 2015,

which sets a goal for 100 percent renewable energy city-wide by 2035.<sup>5</sup> The City of Encinitas adopted and updated CAP in 2020 with a goal to reduce emissions to 44 percent below 2012 levels by 2030.<sup>6</sup> The City’s establishment of a CCA program will have a significant impact on its emissions goals with a reduction of 19,465 MTCO<sub>2</sub>e, the largest of the prospective reductions reflected in the updated CAP’s 20 GHG reduction strategies.<sup>7</sup> Similarly, the City of La Mesa adopted its CAP in March 2018, which set a goal to reduce emissions by 68,450 MTCO<sub>2</sub>e by 2035.<sup>8</sup> The City of Chula Vista adopted its CAP in September 2017, and it established a goal for up to 100 percent clean energy through the formation of a CCA program.<sup>9</sup> The City of Imperial Beach adopted a CAP in July 2019 which set a goal for 85 percent renewable energy by 2030.<sup>10</sup> SDCP’s newest Member Agencies – National City and San Diego County – were also motivated in part to join SDCP as a strategy to meet their respective CAP goals and several Member Agencies are in the process of updating their CAPs. The Member Agencies intend to contribute to achieving these and future goals collaboratively by operating SDCP to provide electric energy to residential, commercial and governmental electric accounts located within their communities and delivering supportive customer programs.

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<sup>5</sup> See *Climate Action Plan*, City of San Diego, December 2015, at 35, available at [https://www.sandiego.gov/sites/default/files/final\\_july\\_2016\\_cap.pdf](https://www.sandiego.gov/sites/default/files/final_july_2016_cap.pdf).

<sup>6</sup> See *Climate Action Plan Interim Revision*, City of Encinitas, November 2020, at 1-7, available at [https://encinitasca.gov/Portals/0/City%20Documents/Documents/City%20Manager/Climate%20Action/CAP\\_2\\_3\\_2021\\_final.pdf?ver=2021-02-03-151752-820](https://encinitasca.gov/Portals/0/City%20Documents/Documents/City%20Manager/Climate%20Action/CAP_2_3_2021_final.pdf?ver=2021-02-03-151752-820)

<sup>7</sup> See *Climate Action Plan Interim Revision*, City of Encinitas, at 3-7.

<sup>8</sup> See *Climate Action Plan*, City of La Mesa, March 13, 2018, at 45, available at [https://www.cityoflamesa.us/DocumentCenter/View/11008/LMCAP\\_CC03132018](https://www.cityoflamesa.us/DocumentCenter/View/11008/LMCAP_CC03132018).

<sup>9</sup> See *Climate Action Plan*, City of Chula Vista, September 2017, at 20, available at <https://www.chulavistaca.gov/home/showdocument?id=15586>.

<sup>10</sup> See *Local Coastal Program Resilient Imperial Beach Climate Action Plan*, City of Imperial Beach, July 17, 2019, at 31, available at <https://www.imperialbeachca.gov/ApprovedClimateActionPlan2019>.

#### **IV.B.1. Long-term Procurement**

Pursuant to Public Utilities Code section 399.13(b), from 2021 onwards, 65 percent of mandated renewable energy purchases must be sourced from contracts of 10 years or more.<sup>11</sup> SDCP has been conscientiously pursuing contracting opportunities to meet this requirement and has now entered into nine unique long-term PCC1 supply agreements (VAMO, two Market Offers, six PPAs), which include: 1) a long-term (20-year) PCC1 supply agreement with Vikings Energy Farm, LLC, executed on May 3, 2021, which will cause the delivery of approximately 250,000 MWh per year of renewable energy produced by a new 132 megawatt photovoltaic solar array (plus battery storage) located in Imperial County that is expected to commence commercial operation in September 2024; 2) a long-term (20-year) PCC1 supply agreement with JVR Energy Park, LLC, executed on June 4, 2021, which will cause the delivery of approximately 260,000 MWh per year of renewable energy produced by a new 90 megawatt photovoltaic solar array (plus battery storage) located in San Diego County that is expected to commence commercial operation in October 2026; 3) a long-term (15-year) PCC1 supply agreement with IP Oberon, LLC, executed on June 11, 2021, which will cause the delivery of approximately 225,000 MWh per year of renewable energy produced by a new 75 megawatt photovoltaic solar array located in Riverside County that is expected to commence commercial operation in June 2023; 4) a long-term (12-year) PCC1 supply agreement with SDG&E, executed on December 20, 2021, which will cause the delivery of approximately 120,000 to 1,580,000 MWh per year of renewable energy produced by a portfolio of RPS-eligible generating resources, as listed in the contract,

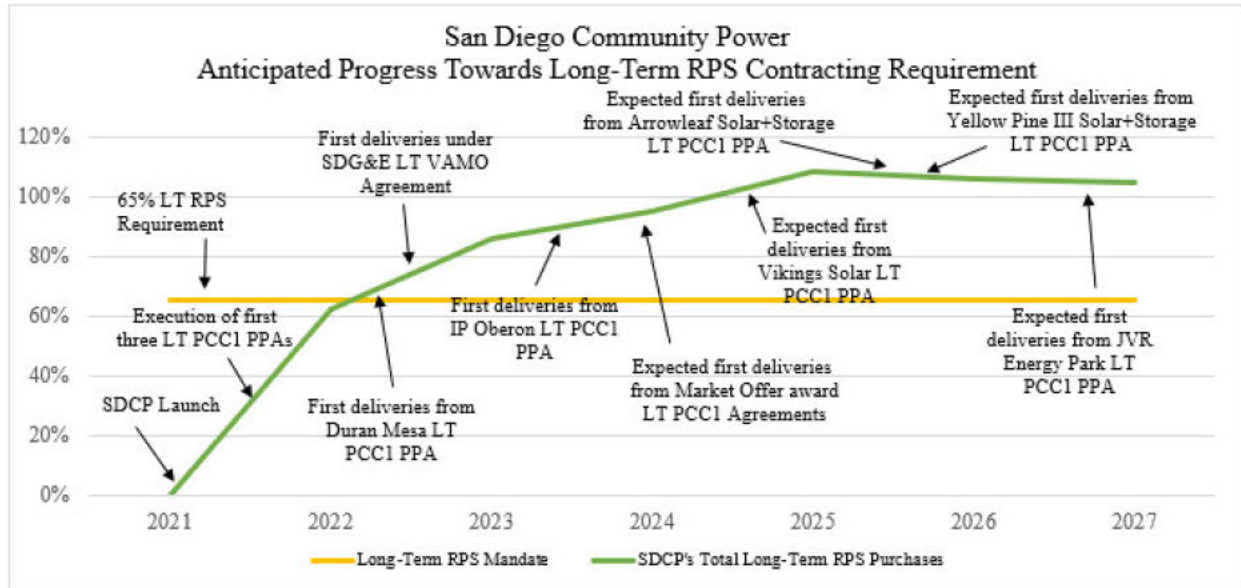
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<sup>11</sup> Cal. Pub. Util. Code § 399.13(b)(1) (“A retail seller may enter into a combination of long- and short-term contracts for electricity and associated renewable energy credits. Beginning January 1, 2021, at least 65 percent of the procurement a retail seller counts toward the renewables portfolio standard requirement of each compliance period shall be from its contracts of 10 years or more in duration or in its ownership or ownership agreements for eligible renewable energy resources.”).

beginning in 2022; 5) a long-term (10-year) PCC1 supply agreement with Duran Mesa, LLC, executed on January 27, 2022, which will cause the delivery of approximately 170,000 MWh per year of renewable energy produced by a 50 MW share of a 105 MW wind project located in Torrance County, New Mexico that achieved commercial operation (on November 30, 2021, as reflected in the California Energy Commission's associated certificate for this project) and began delivering power to SDCP on February 1, 2022; 6) a long-term (20-year) PCC1 supply agreement with Orni 30 LLC, executed on June 29, 2023, for a new 42 megawatt photovoltaic solar array (plus 35 MW battery storage) located in Imperial County that is expected to commence commercial operation in April 2025; 7) a long-term (20-year) PCC1 supply agreement with Yellow Pine Solar III, LLC, executed on July 3, 2023, for a new 35 megawatt photovoltaic solar array (plus 35 MW battery storage) located in Clark County, Nevada that is expected to commence commercial operation in October 2025; 8) Long-term PCC1 Market Offer award from PG&E (approx. 2023-2043); and 9) Long-term PCC1 Market Offer award from SDG&E (approx. 2023-2040).

Note that one of the aforementioned projects, Duran Mesa, has already achieved commercial operation, IP Operon will achieve commercial operation in 2023, and the noted agreement with SDG&E VAMO, PG&E MO award, and SDG&E MO award will be exclusively supplied from existing/operational projects, which serves to de-risk a significant portion of SDCP's upcoming long-term RPS deliveries. SDCP's expansion activities in 2022 and 2023 necessitated its acceptance of certain long-term allocations available under VAMO and, potentially, other long-term RPS purchases to ensure compliance with applicable long-term contracting requirements during CP4 and beyond. It is worth noting that SDCP intends to continue focusing the significant majority of its PCC1 contracting efforts on contract durations

of ten years or longer, which should contribute to the accrual of a planning reserve over time, alleviating concerns regarding long-term contract compliance. This anticipated trajectory, which includes certain of SDCP’s long-term VAMO allocation elections, is reflected in the following table.



	<i>CP4</i> <i>2021-2024</i>	<i>CP5</i> <i>2025-2027</i>	<i>CP6</i> <i>2028-2030</i>
<b><i>SDCP Retail Sale - MWh</i></b>	<i>25,022,199</i>	<i>26,599,629</i>	<i>27,003,270</i>
<b><i>State Mandated RPS Target - % of Retail Sales</i></b>	<i>41.1%</i>	<i>49.3%</i>	<i>57.3%</i>
<b><i>SDCP State Mandated RPS Target- MWh</i></b>	<i>10,281,210</i>	<i>13,124,957</i>	<i>15,484,265</i>
<b><i>State Mandated 65% Long-Term Contracting Target - MWh</i></b>	<i>6,682,786</i>	<i>8,521,222</i>	<i>10,064,772</i>
<b><i>SDCP Long-term Procurement Achieved – MWh</i></b>	<i>11,643,002</i>	<i>17,262,972</i>	<i>21,729,864</i>
<b><i>SDCP Long-term Procurement Achieved - %</i></b>	<i>113%</i>	<i>132%</i>	<i>140%</i>

As reflected in the previous table, SDCP expects to meaningfully exceed applicable long-term RPS procurement mandates in Compliance Period 4. More specifically, for Compliance Period 4, SDCP expects to procure in excess of 130% of its required long-term RPS mandate (which means that SDCP expects to procure 87% of total statutorily mandated RPS purchases from long-term contracts), based on expected RPS deliveries of over 8,600 GWh, relative to a projected long-term procurement obligation of about 6,400 GWh. Similarly, in Compliance Period 5, which includes calendar years 2025 through 2027, SDCP also expects to procure in excess of 145% of its required long-term RPS mandate (which means that SDCP again expects to procure greater than 95% of total statutorily mandated RPS purchases from long-term contracts), based on expected RPS deliveries of over 12,000 GWh, relative to a projected long-term procurement obligation of approximately 8,100 GWh. In Compliance Period 6, which includes calendar years 2028 through 2030, SDCP expects to procure about 145% of its required long-term RPS mandate (which means that SDCP again expects to procure approximately 95% of total statutorily mandated RPS purchases from long-term contracts), based on expected RPS deliveries of approximately 14,000 GWh, relative to a projected long-term procurement obligation of approximately 9,600 GWh. These projections are based on estimated annual deliveries to be received under SDCP's long-term VAMO supply agreement with SDG&E, which was executed on December 20, 2021. While SDCP previously advised the Commission of its intent to accept certain long-term RPS volumes under VAMO, this agreement has now been finalized. SDCP has also accepted Long-term MO award volumes that will contribute to these compliance periods, as well as new build renewable development projects. The previous procurement estimates have accounted for the net impact of SDCP's VAMO supply to overall renewable energy purchases, and SDCP believes it would successfully achieve compliance with

long-term RPS procurement mandates through 2030 under a variety of adverse scenarios in which severe delivery shortfalls could occur.

Even with long-term RPS deliveries expected to meaningfully exceed applicable mandates, SDCP expects to continue the selective pursuit of additional long-term RPS contracting opportunities via independently administered solicitations and bilateral contracting discussions. Future long-term RPS contracting efforts are likely to focus on diversifying SDCP's RPS supply portfolio and may include additional hybrid generating configurations, baseload renewable generating technologies and/or emerging renewable generating technologies that would be expected to promote budgetary certainty and grid reliability.

#### **IV.C. Portfolio Diversity and Reliability**

Power purchased from power marketers, public agencies, generators, CCAs, or utilities will be a source of supply for SDCP's operation. Based on current contracting efforts, SDCP expects to obtain requisite electricity supply from several suppliers, including power marketers, project developers, and/or IOUs. Such suppliers will be responsible for delivering a portion of SDCP's intended resource mix, including SDCP's desired quantities of renewable and carbon-free energy, to provide a stable and cost-effective resource portfolio.<sup>12</sup>

In carrying out its planning functions, SDCP will also consider the deliverability characteristics of its future generating resources placed under contract (such as the resource's dispatchability, available capacity, and typical production patterns) and will review the respective risks associated with short- and long-term purchases as part of its forecasting and procurement processes. These efforts should lead to a more diverse resource mix, address grid

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<sup>12</sup> See *San Diego Community Power Community Choice Aggregation Implementation Plan and Statement of Intent*, December 9, 2019, p.1 at 6.6, available at <http://sdcommunitypower.org/resources/key-documents/>.

integration issues, and provide value to the Member Agencies.

SDCP intends to utilize a portfolio risk management approach as part of its power purchasing program, seeking low-cost supply (based on then-current market conditions) as well as diversity among technologies, production profiles, project sizes and locations, counterparties, lengths of contract, and timing of market purchases. For its recently executed long-term renewable supply agreements with new generating resources, SDCP has reflected a risk adjustment (failure/under-delivery rate) of 5 percent in year one and 3 percent in each year thereafter. The larger year-one adjustment is intended to account for potential late deliveries (resulting from delayed commercial operation), while the smaller ongoing risk adjustments are intended to account for resource intermittency and the potential for lower-than-anticipated energy production. These assumptions were informed by discussions with other CCA organizations. SDCP admits that its initial supply portfolio has included a relatively small number of contracts which will grow in number over time, increasingly emphasizing the principles of resource and counterparty diversity as operational experience has been gained and renewable energy requirements increase.

While SDCP is not opposed to considering emerging renewable generating technologies, it is unlikely that its early-stage supply agreement(s) will focus on such resources – SDCP has yet to receive credible and cost-competitive proposals from emerging renewable generating technologies, but if such proposals arrive in the future, they will be closely considered alongside other viable options. SDCP’s renewable supply commitments must result in reliable, cost-effective supply to promote compliance with applicable RPS mandates without bearing the risks typically associated with newer technologies. Until compelling proposals for emerging renewable generating technologies are received, SDCP will likely exhibit preferences for proven



generating technologies and supply structures that will minimize delivery risk during early-stage operation while allowing for re-shaping of certain renewable generating profiles to better align supply with demand. If, however, a compelling offer is presented for a cost-effective emerging technology, SDCP will evaluate such proposal on its merits relative to other available offers.

SDCP will procure renewable and other requisite energy products, as necessary, to ensure that the future energy needs of its customers are met in a reliable and cost-effective manner, consistent with applicable compliance mandates. SDCP, through its CCA Implementation Plan and subsequent planning discussions, has established initial procurement targets for requisite renewable energy supply, including subcategories for various renewable energy products, and has also established targets for related planning reserves as described elsewhere in this document. To the extent that SDCP's energy needs are not fulfilled through the use of renewable generating resources, it should be assumed that such supply will be sourced from carbon-free and/or conventional energy resources, such as hydroelectric or natural gas generating technologies, as well as system power purchases.

A key component of SDCP's planning process relates to the analysis and consideration of expected load obligations with the objective of closely balancing supply and demand, rate stability, and overall budgetary impacts. This process primarily focuses on the compilation and analysis of historical customer data, as provided by SDG&E, identification of any ineligible/excluded accounts (that will not be enrolled in CCA service), and related refinements to SDCP's retail sales forecasts. Similar to most CCAs, SDCP expects that such historical data will not be a perfect predictor of future customer energy requirements, so it intends to actively monitor actual customer usage, relative to projections, over time, refining such forecasts as well as its ability to minimize variances between procured energy quantities and actual usage. SDCP

also plans to maintain portfolio coverage targets of up to 100 percent (of expected customer energy requirements) in the near-term (0 to 2 years) but will leave larger open positions in the mid- to long-term, consistent with generally accepted industry practices.

At this point in time, SDCP has no explicit preference for specific renewable generating technologies and will consider all responses to its solicitations with the goal of assembling a diversified renewable energy supply portfolio that will deliver energy in a profile that is generally consistent with SDCP's anticipated load shape – SDCP's growing portfolio of renewable supply commitments will be increasingly considerate of load/resource balances and will attempt, subject to product availability and related costs, to promote such balance to the greatest practical extent. SDCP is also aware that use of intermittent renewable generating technologies has the potential to create occasional misalignments between customer energy consumption and related power production as well as the general quantity of renewable energy received from such projects. SDCP expects that its voluntary commitment to a minimum 50 percent renewable supply portfolio will protect against this uncertainty. In addition, and for purposes of promoting better alignment of customer energy usage and expected energy deliveries, SDCP is considering both stand-alone storage and hybrid or co-located storage and renewable energy projects– via its ongoing Local RFI and its continuing Long Duration Storage and all-source RPS RFOs.

SDCP forecasts its future load growth by applying a fixed annual increase of approximately 0.5% in retail sales as compared to the prior year. This forecast value was derived using historical trends and is re-evaluated and adjusted based on actual load data. The load curves that SDCP prepares to support this forecast evaluate and assume increases in customer energy usage due to transportation electrification, but currently do not separately forecast

transportation electrification load growth. Based on SDCP’s evaluation of transportation electrification load growth up to the date of the filing of this RPS Procurement Plan, transportation electrification has not caused deviations from the overall expected load growth trends because this specific sector of load growth has not been significant in comparison to competing factors, such as energy efficiency programs, customer-sited generation, and general economic impacts.

However, because state and local transportation goals are likely to result in significant increases in transportation electrification in the future, SDCP will be assessing and evaluating if its near term forecasts should be adjusted based on changes likely to occur in its region. This evaluation considers light duty vehicles (personal use), electrification of vehicle fleets (commercial) and local targets for electrification of public transit systems while building electrification considers the phasing out of onsite use of natural gas for heating, cooling and other appliances in buildings through all-electric technologies. The information considered in this process includes the mid scenario identified in the California Energy Commission’s Integrated Energy Policy Report (“IEPR”) Demand Forecast.<sup>13</sup> SDCP is evaluating the development of a transportation electrification forecast that would also incorporate as other available data/information that would allow such a forecast to be directly tailored to its region – this data/information may include local policies related to transportation electrification, if applicable, locally available incentives focused on transportation electrification and/or data related to electric transportation adoption/conversion occurring within SDCP’s service territory. SDCP is coordinating with its member municipalities to determine pertinent local targets for

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<sup>13</sup> See Javanbakht, Heidi, Cary Garcia, Ingrid Neumann, Anitha Rednam, Stephanie Bailey, and Quentin Gee. 2022. Final 2021 Integrated Energy Policy Report, Volume IV: California Energy Demand Forecast. California Energy Commission. Publication Number: CEC-100-2021-001-V4, at 65.

transportation and building electrification and, following the identification of these local planning parameters, will accordingly update its load curves to reflect such assumptions.

To more closely align SDCP's resource portfolio with the evolving energy requirements of its member communities, SDCP anticipates that a diverse set of renewable resources will be necessary, including the strategic inclusion of generating resources, energy storage resources, and complementary infrastructure that may allow SDCP to dispatch/shape such supply in consideration of evolving customer energy needs and usage patterns.

#### **IV.D. Lessons Learned**

SDCP continues to evaluate historical pricing trends, which have materially changed in the wake of increased renewable energy buildout. SDCP appreciates the substantial financial risks that are created by California's long-term renewable contracting requirements and will continue to explore opportunities to manage such risks during its contracting efforts. SDCP also observes that technological diversity is an important principal to incorporate in RPS planning efforts.

SDCP is also aware that prudent planning and successful management of early-stage CCA program finances is critical in managing ongoing market risk and other uncertainties. As such, SDCP will exercise care in pursuing its early-stage renewable energy supply options to promote alignment with budgetary parameters. SDCP may also pursue interagency solicitation/procurement opportunities to the extent that such coordinated efforts can increase procedural efficiency, reduce administrative redundancy, and decrease certain expenses typically associated with such processes.

## V. Project Development Status Update

As described in Section IV.B above, SDCP’s current and planned procurement is expected to be sufficient to meet both the applicable RPS procurement requirements as well as support the state’s GHG reduction targets. Further, SDCP’s current and planned procurement is expected to support system reliability by considering both portfolio diversity and alignment with SDCP’s customers’ load curve. SDCP has entered into eight agreements with RPS-eligible facilities, with three having reached commercial operation. These projects are summarized in the following table.

<b>Facility Name</b>	<b>Technology Type</b>	<b>MW-ac</b>	<b>Location</b>	<b>Term Length</b>	<b>Expected COD</b>	<b>Network Upgrades Milestone</b>
VAMO	Various	Portfolio	Various	10	On-line	Complete
Duran Mesa	Wind	50	Torrance County, New Mexico	10	On-line	Complete
Burney Forest Products	Biomass	29	Burney, CA	5	On-line	Complete
IP Oberon	Solar	75	Riverside, CA	15	06/30/2023	6/30/2023
Vikings Energy Farm	Solar + Storage	100	Imperial, CA	20		
Arrowleaf Solar and Storage	Solar + Storage	42	Imperial, CA	20		
Yellow Pine III	Solar + Storage	35	Clark County, NV	20		
JVR Energy Park	Solar + Storage	90	San Diego, CA	20		

Five of SDCP's five long-term RPS contracts are associated with generating resources that have yet to achieve commercial operation. These projects include:

- Vikings Energy Farm, LLC: a new 136.5 megawatt photovoltaic solar array (plus battery storage) located in Imperial County that is expected to commence commercial operation in 2024. This project is progressing through pre-construction activities. Vikings Energy Farm has executed an Interconnection Agreement and Transmission Service Rights Agreement with Imperial Irrigation District. Vikings has hired an Engineering firm and expects its Conditional Use Permit to be approved by Imperial County in Q3 2022.
- JVR Energy Park, LLC: a new 90 megawatt photovoltaic solar array (plus battery storage) located in San Diego County that is expected to commence commercial operation in 2026. This project is progressing through pre-construction activities. JVR has completed Interconnection Agreement, Major Use Permit, and EPC contracting is pending.
- IP Oberon, LLC: a new 75 megawatt photovoltaic solar array located in Riverside County that is expected to commence commercial operation in 2023. Oberon has executed an Interconnection Agreement, received CEC Pre-certification, and has achieved all site control and permits.
- Arrowleaf Solar and Storage (Orni 30 LLC): a new 42 megawatt photovoltaic solar array (plus 35 MW battery storage) located in Imperial County that is expected to commence commercial operation in Q2 2025.
- Yellow Pine Solar III, LLC: a new 35 megawatt photovoltaic solar array (plus 35 MW battery storage) Clark County, Nevada that is expected to commence commercial operation in Q4 2025.

In consideration of SDCP's recent contracting efforts with new renewable generating resources, it has updated Appendix D, the Project Development Status Update Report. SDCP is aware of the pandemic, geopolitical, and supply-chain impacts that many LSEs and developers are currently facing related to new resource development and is working closely with each of its contractual counterparties to monitor and mitigate any potential impacts of these delays on SDCP's supply portfolio, market exposure, RPS compliance, and customer rates. As new information related to SDCP's renewable energy contracting process(es) becomes available, SDCP will update its Project Development Status Update Report accordingly.

## **VI. Potential Compliance Delays**

Based on recently completed and expected renewable energy procurement efforts and the acceptance of VAMO allocations, SDCP does not anticipate any compliance delays related to Compliance Period 4, which includes calendar years 2021-2024. If a future compliance issue is identified or SDCP encounters challenges in securing requisite renewable energy supply in the future, then SDCP will address such issue within a subsequent RPS Procurement Plan.

SDCP will continue assessing projected long-term open positions (that may exist in CP5 and CP6) relative to expected deliveries and intends to administer future solicitations, as necessary, to ensure compliance with the RPS Program over the upcoming 10-year planning horizon. If a future compliance issue is identified or SDCP encounters challenges in securing requisite renewable energy supply, then it will address such issues in a subsequent RPS Procurement Plan.

### **VI.1. Impacts of COVID-19 Pandemic**

As the Commission is aware, successful renewable energy markets depend upon international supply chains, substantial labor commitments, robust financial markets, timely

interactions with governmental planning authorities, tariff law changes, and various other considerations. With numerous disruptions caused by the COVID-19 pandemic and various other challenges, it is incredibly challenging to determine if, and to what extent, renewable energy procurement opportunities may be compromised, particularly new-build renewable energy projects which typically rely on long-term contracts as the basis for project financing. SDCP will closely monitor energy usage patterns to determine if any planning adjustments may be necessary based on current and expected economic conditions.

SDCP intends to closely monitor this situation as well as potential fallout related to supplier/developer effectiveness in fulfilling mandated renewable energy needs, project completion and overall supplier viability. SDCP is aware that many supply chains have been disrupted during the pandemic with a variety of material/component shortages occurring throughout the industry. Moreover, recent concerns regarding the application of tariffs on certain imported renewable infrastructure have also provoked certain supplier to request “reopening” of previously executed contracts and/or the negotiation of terms that allow for price adjustments in the event of unexpected costs (such as the noted tariff). Concerns of this nature have introduced a measure of instability in the long-term contracting efforts of many retail sellers. With these concerns in mind, SDCP encourages the Commission to closely monitor and potentially reconsider certain elements of the RPS Program as this situation evolves, particularly if there are widespread, well-documented challenges as California retail sellers attempt to fulfill pertinent procurement requirements. Relatedly, SDCP is aware of numerous instances in which contract documents are being drafted with more expansive force majeure language to alleviate the concerns of sellers/developers in meeting project completion schedules due to potential pandemic-related delays – “day for day” commercial operation date extensions have been



pursued. From SDCP's perspective, buyers must be diligent in contracting efforts to strike an appropriate balance between flexibility and certainty. Not all project development delays are expected to be directly attributable to the pandemic, so effectively parsing contractual accommodations for development delays in consideration of this reality should serve to manage uncertainties related to project completion and renewable delivery timelines.

SDCP also encourages the Commission to coordinate closely with the legislature to evaluate potential adaptations to the RPS Program, which may become necessary if renewable energy markets are materially impacted by resource shortages or project delays lingering from 2020-2023 impacts. With rapidly changing circumstances and related information, SDCP anticipates the need for considerable flexibility/agility in working to meet requisite renewable energy procurement mandates. In the meantime, SDCP will remain hopeful that impacts to renewable energy markets will not compromise California's ability to reach its renewable energy procurement goals or its own, internally established renewable procurement targets.

## **VII. Risk Assessment**

### **Compliance Risk**

An important element of SDCP's RPS risk assessment process is determining potential vulnerabilities related to procurement and/or delivery shortfalls that could trigger deficits relative to SDCP's anticipated compliance obligations. Considering SDCP's internally adopted renewable energy procurement targets and existing contractual commitments, this risk, as internally determined by SDCP, appears to be very low in Compliance Period 4 and beyond. As discussed elsewhere in this planning document, SDCP has established a VmoP and, further, a MMoP that inform RPS procurement efforts and insure against compliance-related shortfalls. More specifically, SDCP received a letter from the CPUC's Deputy Executive Director for

Energy and Climate Policy on December 9, 2022, which provided an assessment of the perceived RPS compliance risk for Compliance Period 4 (calendar years 2021 through 2024). SDCP's risk level was categorized as low within this assessment letter, which was based on information included in SDCP's 2021 RPS Compliance Reports, as submitted in the summer of 2022.

SDCP understands that it is not at risk of failing to meet its Compliance Period 2021-2024 RPS long-term procurement and RPS procurement quantity requirements. SDCP believes that its internally adopted renewable energy procurement targets (reflective of its VmoP and, further, its MMoP), which meaningfully exceed RPS mandates, as well as existing contractual commitments, leave SDCP very well positioned to meet its ongoing RPS compliance obligations. If anything happens to change in terms of SDCP's internal assessment of RPS compliance risk, it will inform the CPUC accordingly in a future RPS Procurement Plan.

#### Risk Modeling and Risk Factors

SDCP makes reasonable efforts to minimize the risk of renewable procurement shortfalls for purposes of complying with applicable RPS mandates established in SB 100, but it cannot definitively predict the scope or magnitude of circumstances that may impact annual retail energy sales, renewable energy markets, or individual project performance. With this in mind, SDCP responsibly assesses RPS compliance risk by considering three key planning elements: 1) retail sales variability; 2) renewable energy production/delivery variability; and 3) impacts to overall system reliability associated with SDCP's planned RPS purchases and other influences. These topics are generally considered in the noted sequence with observed risks informing potential adaptations to SDCP's planning process, potential adaptations to planning reserves and, ultimately, refinements to SDCP's renewable energy procurement (or sales) processes and

quantities. As described elsewhere in this RPS Procurement Plan, SDCP's previously executed renewable supply contracts, current negotiating efforts, and ongoing procurement processes will place the organization in a strong position to meet applicable RPS compliance requirements in Compliance Period 4 and beyond. Therefore, SDCP's self-determined risk of non-compliance is low. Nevertheless, SDCP continues to assess demand-side and supply-side risks to better understand potential areas of concern and to promote achievement of organizational compliance objectives.

Regarding demand-side risk, SDCP continues to evaluate and update prospective retail sales related to its evolving customer base and trailing 10-year planning period, including but not limited to anticipated changes related to customer eligibility, new development projects (that could increase retail energy consumption), business closures, expected customer attrition (or growth) and changes to behind-the-meter generating capacity. From a practical perspective, the greatest demand-side risk with regard to SDCP's anticipated customer base is that retail sales are meaningfully higher than anticipated during Compliance Period 4. As the Commission is aware, CCAs provide an opportunity for customer choice, allowing customers to voluntarily participate in SDCP's program or remain bundled customers of the incumbent utility, SDG&E. To the extent that customers choose to leave SDCP's CCA program, or "opt out", SDCP's retail sales will decrease, resulting in related increases to the ratio of renewable energy serving such customers (and improving SDCP's position relative to applicable RPS compliance mandates). It is unlikely that SDCP's renewable supply commitments will provide volumetric flexibility/options in the event of higher-than-anticipated retail sales volumes; in such instances, SDCP would need to pursue additional procurement opportunities to address unanticipated open positions. Because SDCP's anticipated participation rates are based on the well-documented

experience of California's other operational CCA programs, the organization is confident that actual retail sales will be reasonably well aligned with related forecasts.

Considering SDCP's ongoing coordination with member municipalities and associated planning departments, SDCP expects to be well informed regarding upcoming development projects or other customer changes that could materially increase retail sales. For this reason, SDCP believes that demand-side RPS compliance risk is low.

Regarding supply-side risks, SDCP is aware of the generation variability/intermittency associated with certain renewable technologies as well as the possibility of curtailment (based on pricing considerations or market directives) during certain times of day/year. In the case of new-build renewable projects, SDCP is also aware of the possibility of project delays and, potentially, project failure. Such circumstances can materially diminish renewable energy deliveries, jeopardizing the achievement of RPS compliance and exposing the organization to unexpected financial consequences. This noted, a primary objective of the SDCP's CCA program is offering participating customers stable and competitive retail generation rates, so the organization must balance generalized over-purchasing of certain compliance products, including RPS-eligible renewable energy, with related budgetary impacts. In its RPS planning process, SDCP has considered such impacts as well as previous procurement practices, which have satisfied applicable compliance mandates reflected in California's RPS program. Long-term RPS procurement typical lead times (between contract execution and project completion) associated with new-build renewable energy projects are often 2-3 years or longer. It is becoming more common-place that contracting efforts are initiated further in advance of service commencement than was the norm. With this observation in mind, SDCP must either: 1) focus RPS contracting efforts on existing renewable generating resources; or 2) accept failure/delay risks associated

with new-build renewable projects placed under contract by incorporating reasonable planning reserves to mitigate such risks. SDCP's VAMO allocation elections, however, serve as a mitigating factor when considering long-term RPS compliance risk, as the typical lead time associated with new-build renewable generating projects does not apply to these deliveries (which began in 2022). In the case of SDCP, a balanced approach has been pursued, which has entailed contracting efforts focused on both existing and new renewable generating resources, thereby minimizing, but not eliminating, risks associated with compliance shortfalls. With SDCP's expansion in 2023, resource planning and procurement efforts were focused on addressing known increases in the organization's RPS needs, particularly long-term RPS needs. Prior to its expansion activities, SDCP expected to have a long-term RPS surplus in CP4. SDCP elected to receive 100 percent of available long-term VAMO allocations, and MO awards, to help satisfy this compliance mandate. Regardless of the eventual long-term contracting opportunities that may be pursued by SDCP, the organization intends to pursue contract volumes in sufficient quantity to accommodate one or more project failures amongst SDCP's currently executed contracts and upcoming contract opportunities. SDCP has evaluated volumetric risk (due to project delays and/or under performance) in its updated risk assessment, as further described below, and has accounted for such impacts within Appendix C.

SDCP also anticipates mitigating supply-side risk by incorporating fixed-volume and index-plus pricing structures amongst its portfolio of RPS supply agreements. These procurement mechanisms serve to mitigate the risk of delivery variability (typically associated with intermittent renewable resources and/or renewable resources that may be subject to periodic curtailment) and exposure to negative market pricing (which could prompt economic curtailment). Fixed volume arrangements, in particular, also mitigate risk associated with

commercial operation delays and facility failure; these structures also provide buyers with financial protections (via penalty payments) for under-delivery (which could be used, as a last resort, to offset compliance penalties in the event that the supplier or SDCP are unable to identify replacement volumes).

As part of SDCP's approach to managing supply-side risk, it has also adopted what it believes to be a CCA best practice related to RPS contracting: structuring solicitations to identify proven renewable generating technologies in prime resource locations to be developed and/or operated by the most experienced available suppliers (with strong, well-documented track records of successful project completion and operational reliability). . When evaluating prospective renewable energy supply opportunities, SDCP will seek to minimize the risk of delivery failure (or shortfalls) by pursuing supply arrangements with such experienced and financially stable suppliers that have demonstrated successful track records. This noted, there is always a possibility that future renewable energy supply will not be delivered as required, which is why SDCP intends to periodically evaluate the sufficiency of currently anticipated renewable energy procurement targets in meeting both statutory mandates and prudent planning reserve levels. Given SDCP's initial commitment to providing a minimum 50 percent renewable default service to participating customers, it seems highly unlikely that cumulative renewable energy delivery shortfalls could result in compliance deficiencies. While other CCA programs may choose to pursue differing planning reserve targets, SDCP observes that there does not seem to be a clear standard or related guidelines for setting such metrics and believes that its anticipated, internally defined renewable energy targets provide sufficient planning reserves.

Following contract execution, SDCP staff will closely coordinate with its suppliers, particularly developers of any new-build resource, to maintain an acute awareness of project

development progress, including any anticipated issues that could delay expected initial deliveries or compromise overall project viability. Such communications are intended to provide SDCP with an early indication of such issues, which would allow “corrective procurement actions” to occur if the extent of such issues were determined to impact SDCP’s RPS compliance status.

In terms of system and resource reliability, SDCP has adopted a procurement approach that intends to emphasize resource and contractual diversity. This process is expected to contribute to the identification of renewable generating resources that should positively impact system reliability over time.

SDCP will consider this potential risk of generation variability during its resource planning process and related procurement/contracting efforts and may pursue contract structures that promote volumetric stability through the application of firm delivery quantities and/or performance guarantees that provide financial remedies/penalties in the event of delivery shortfalls. If necessary, the application of such penalties could be used: 1) as a first priority, to procure additional renewable energy supply to address delivery shortfalls; or 2) in the event of a determination of non-compliance, to offset the cost of related penalties. SDCP’s intent is to achieve and maintain compliance with applicable RPS mandates, and the latter option is a last resort that is not expected to apply.

In addition to the previously described considerations, SDCP utilizes a quantitative risk assessment that quantifies the energy impacts related to supply side losses. This approach organizes prospective risks into three general categories which pose the greatest supply-side impacts to the delivery of expected RPS energy: 1) curtailment risk; 2) counterparty risk; and 3) project cancellation risk.

As part of its quantitative risk assessment, SDCP examines hourly forward-looking data that could lead to curtailment risk, specifically the likelihood that an hour within the forward market exhibits pricing that falls below negative \$15/MWh through the expiration of each contract. Below this dollar amount, SDCP is presumed to be better off financially if it were to curtail the affected generating unit and, as a substitute for such curtailment, purchase additional renewable energy credits on the open market. Considering SDCP's current long-term renewable energy positions, a reduction in long-term RPS volumes due to curtailment could, potentially, compromise the prospect of RPS compliance. The figures presented in the column quantifying curtailment risk are calculated by quantifying the volume of expected energy deliveries and multiplying such volume by the likelihood of curtailment. *Based on SDCP's assessment of curtailment risk associated with its renewable energy contract portfolio, this risk category was assigned a rating of low.*

Counterparty risk is the risk posed by a counterparty being unable or unwilling to honor its total RPS delivery obligations, as reflected in related contract documents. SDCP has quantified this likelihood by considering S&P Global's, Global Corporate Annual Default Rates by Rating Category (%) as a measure of organizational viability and financial stability. While this rate considers industries beyond the energy sector, it provides relevant insights into the correlation and potential impacts of dealing with uncreditworthy counterparties. The likelihood of default by credit rating was averaged over the years from 2014 to 2019. These years were chosen to remove irregularities in default rates during the Covid-19 pandemic. If a counterparty was found to be unrated, then the contract was reviewed to identify specified credit assurances; based on such assurances, an approximate rating was derived based on SDCP's experience and risk tolerance. *Based on SDCP's assessment of counterparty risk associated with its renewable*



*energy contract portfolio, this risk category was assigned a rating of low.*

The final category reflected in SDCP's analysis is project/contract cancellation risk. This category is distinct from counterparty risk because the risk of project/contract cancellation may only affect a single project under a counterparty's portfolio. Projects may be cancelled for a variety of reasons. This risk only effects single source projects which have yet to be constructed. These projects were chosen because they have a single point of failure unlike RPS energy purchased from a pool of resources (under a portfolio-style purchase agreement in which there is generally more diversity amongst the sources of supply). Based on discussions with various counterparties, other load serving entities and its own experience, SDCP has assessed that this risk effects roughly 1 in 20 deals. *Based on SDCP's assessment of project failure/contract cancellation risk associated with its renewable energy contract portfolio, this risk category was assigned a rating of low.*

Considering these categories holistically, SDCP was able to derive a cumulative energy percentage at risk. In consideration of SDCP's relatively conservative risk tolerances, a top-level risk of non-delivery offset at 0.25% of renewable energy procurements was added to the calculated energy at risk percentage. This adder will help to account for risks that SDCP cannot foresee and will help to guarantee the sufficiency of SDCP's planned RPS purchases in meeting both compliance-related and internally adopted renewable energy procurement targets. The percentage of renewable energy is the percentage of total renewable energy procured that was determined to be at risk, while the percentage of retail load is the energy at risk as a percentage of retail load. These "at risk" percentages reflect possible losses which, through no fault of SDCP, may occur by virtue of being a market participant. These losses pose a risk for non-compliance relative to SDCP's RPS goals and targets. Since this number is not a guaranteed loss,

SDCP will implement the previously mentioned mitigation strategies to give the greatest chance of meeting its adopted renewable energy procurement targets.

ID	Contract	RPS Contract ID	Energy to be Delivered to Market (MWh)	Curtailment Risk (MWh)	Counterparty Risk (MWh)	Project Cancellation Risk (MWh)
1	Contract 2608	SDCP90001	780,000	-	265	-
2	Contract 2811	SDCP90002	100,000	-	-	-
3	Contract 2821	SDCP50003	2,462,130	5,820	47,322	-
4	Contract 2964	SDCP50005	4,299,960	10,164	82,645	-
5	Contract 2990	SDCP50004	5,151,236	12,176	99,007	-
6	Contract 3017	SDCP90008	135,000	-	-	-
7	Contract 3018	SDCP90008	35,000	-	-	-
8	Contract 3048	SDCP90011	100,000	-	142	-
9	Contract 3049	SDCP90010	165,000	-	3,171	-
10	Contract 3103	SDCP90014	75,000	-	-	-
11	Contract 3193	SDCP70015	75,000	177	26	-
12	Contract 3555	SDCP90017	7,670,000	18,130	-	-
13	Contract 3590	SDCP70019	1,707,630	4,036	32,821	-
14	Contract 3758	SDCP90020	25,000	-	9	-
15	Contract 3760	SDCP90018	300,000	-	-	-
16	Contract 3761	SDCP90018	50,000	-	-	-
17	Contract 3838	SDCP20021	244,788	-	83	-
<b>Total</b>			<b>23,375,744</b>	<b>50,504</b>	<b>265,491</b>	<b>-</b>

**Energy**

<b>Total Renewable Energy</b>	<b>23,375,744</b>
<b>Total Renewable Energy at Risk</b>	<b>315,994</b>
<b>Pct of Renewable Energy at Risk</b>	<b>1.35%</b>
<b>Pct of Unknown Error at Risk</b>	<b>0.25%</b>
<b>Pct of Renewable Energy &amp; Error at Risk</b>	<b>1.60%</b>
<b>Pct of Retail Load</b>	<b>0.40%</b>

Based on SDCP’s analysis, SDCP determined that 1.35 percent of SDCP’s expected future RPS deliveries may be at risk, which equates to 0.40 percent of SDCP’s retail load. These percentages reflect average risk throughout the study period, which suggests that actual risk could fall somewhat above or below these percentages. Regardless, the potential risk-related impacts to SDCP’s RPS supply portfolio fall well below the ten percent MMoP reflected in its

RPS planning process. *In consideration of the results of SDCP's risk analysis, the composite risk assessment, which considers all three of the previously described risk categories, results in an overall risk rating of low.*

As previously noted, SDCP adopted an ERM Policy at the meeting of its governing board on June 25, 2020. In accordance with SDCP's ERM Policy, these risk analyses/assessments are shared and reviewed with SDCP's ROC. If SDCP's internally adopted planning targets and related procurement efforts prove to be insufficient in meeting near-term RPS compliance targets, SDCP will bring such findings to the attention of its ROC and pursue suitable resolutions and mitigation measures under the oversight of the committee.

SDCP's is actively monitoring milestone completion for new-build renewable projects that have yet to achieve commercial operation with the goal of promoting timely project completion and initial deliveries to ensure that SDCP meets applicable compliance mandates during CP4 and beyond. To the extent that SDCP observes issues related to key milestone completion, it will accordingly adjust anticipated renewable energy deliveries to account for the prospect of RPS shortfalls (even though such shortfalls are unlikely to present compliance issues, due to the relatively high renewable energy content reflected in SDCP's default retail service offering).

#### System Reliability

With respect to system reliability, SDCP is aware of the need to pursue a portfolio of renewable resources with diverse and complementary delivery profiles as well as complimentary infrastructure (namely, energy storage infrastructure) that will support the reshaping of renewable energy deliveries to better align with load. For example, renewable energy procurement efforts that may initially focus on relatively low-cost solar resources will often

necessitate subsequent investments in co-located energy storage infrastructure and/or higher-cost baseload renewable generating technologies, such as those using geothermal, biomass and landfill gas fuel sources. These baseload renewable technologies are often priced at three-to-four times the level of in-state photovoltaic solar generation but generally provide increased capacity value (due to the more predictable, baseload generating profiles of such resources) and related reliability enhancements. To date, in pursuit of a balanced portfolio that ensures reliable renewable energy supply, SDCP has contracted with three solar resources, all of which are hybridized or co-located with battery storage (although SDCP does not receive the output or capacity attributes of the IP Oberon energy storage system), a wind generating facility which has a generation profile that is complementary to the solar and in-state wind generation shapes, and is actively negotiating with or soliciting offers for additional hybrid renewable resources, stand-alone storage facilities, and “clean firm” renewable resources. Going forward, SDCP will continue to balance these competing portfolio management interests to support reasonably close alignment between supply and demand (reducing the need for pronounced resource ramping on the system), cost-effective procurement and overall grid reliability. SDCP is aware that low-cost, long-term solutions are challenging to identify at this time, but it will remain committed to pursuing a conscientious planning process that balances grid reliability, compliance demonstration and customer cost impacts. SDCP is willing to engage in discussions with SDG&E and the California Independent System Operator regarding reliability and other system impacts related to its portfolio. SDCP is further willing to consider the feedback provided by the organizations in its planning and procurement processes going forward, so long as such suggestions generally conform with organizational objectives and Board-adopted policies. *In consideration of SDCP’s diverse contractual commitments for requisite renewable energy supply*

*and ongoing focus on the identification of RPS-eligible and complementary technologies that will mitigate reliability impacts associated with increased use of intermittent generating resources throughout the state, overall risks to system reliability associated with SDCP's RPS Procurement Plan were determined to be low.*

### Lessons Learned

In terms of lessons learned related to risk management, SDCP observes that internally adopted, above-RPS planning targets generally serve as effective mitigation measures related to RPS compliance. This approach seems to be supported by SDCP's low risk categorization from the compliance risk assessment letter from the CPUC, especially given SDCP has since meaningfully increased its RPS procurement via acceptance of its VAMO allocations. SDCP will, however, continue to evaluate the sufficiency of its adopted planning reserves (MMoP) to reduce the risk of RPS compliance shortfalls. If future RPS contracting activities impose larger than anticipated risks (on project failure and/or under-delivery), SDCP may increase its noted planning reserve to provide additional protection against such risks. The extent to which such adjustments may occur is not known at this time but will be discussed, as necessary, in a future RPS Procurement Plan.

SDCP has also observed the value of resource diversity across a broad spectrum of considerations, including resource location, generating technology, suppliers/developers and contract structures, amongst other concerns. Long-term renewable supply commitments are inherently risky in the sense that such commitments expose the buyer and/or seller to a variety of unknown circumstances, including but not limited to evolving market prices and policy changes. Throughout a long-term contract relationship, it seems evident that areas with initially low levels of negative pricing (and related curtailment of energy production) can materially change as new

project development activity occurs, creating (or exacerbating) conditions of over-supply and related incidents of energy curtailment. This risk is particularly challenging to manage, as California’s escalating RPS procurement mandates necessitate ongoing investment in new renewable generating infrastructure, which is often sited in resource-rich areas that become saturated with similar generating technologies (and related delivery profiles). These circumstances seem inevitable and, over the course of a long-term supply relationship, may expose the contracted parties to unexpected risks, including negative prices (and related budgetary impacts) and curtailed deliveries (which may compromise the fulfillment of mandated procurement targets by the buyer). Again, SDCP will periodically reevaluate its current renewable energy planning reserve to address anticipated curtailment and/or underperformance risk to the extent that such concerns are pertinent to SDCP’s renewable contract portfolio.

SDCP is also aware that risk can be diversified through various contract structures. For example, an “index-plus” pricing structure is useful in transferring nodal/market price risk to the seller – in such structures, the buyer pays a fixed renewable premium, while the seller assumes risk associated with market price fluctuations but also receives market revenues (which could be higher or lower than anticipated) – even though the buyer receives the energy, renewable attribute and (in certain instances) capacity value as part of such a transaction, the buyer’s financial risk is generally limited to the payment of the renewable premium. For buyers who are averse to market price risk, the index-plus pricing structure effectively eliminates this concern but may result in higher overall contract costs (which may be acceptable, as a form of insurance, to mitigate market price exposure). In other structures, such as the “fixed-price” or “aggregate pricing” structure, the renewable energy premium and energy commodity (and oftentimes, capacity value) are reflected in a single price paid by the buyer – this structure deliberately

allocates market price risk to the buyer, but the buyer may also pay a lower imputed renewable premium in instances where market revenues (realized when the energy commodity is delivered to the grid) closely approximates (or exceeds) the aggregate renewable energy price. SDCP has pursued both pricing structures as part of its portfolio diversification and risk management strategies, attempting to balance risk across a broad range of considerations. Any changes to this approach will be articulated in future iterations of the RPS procurement planning process.

### **VIII. Renewable Net Short Calculation**

SDCP has provided a quantitative assessment to support the qualitative descriptions provided in this RPS Procurement Plan, which is attached as Appendix C. At this point in time and based on SDCP's initial renewable energy contracting efforts, certain risk-related adjustments have been incorporated in Appendix C, as described above. More specifically, SDCP previously described (above, in Section VII, Risk Assessment) its quantitative risk assessment methodology and the results of such analysis, which suggested that 1.35% of future renewable energy deliveries were at risk, meaning that SDCP reasonably anticipates that this portion of expected renewable energy deliveries will not be received. This determination was based on an assessment of the risk categories reflected in SDCP's analysis, which included: 1) curtailment risk; 2) counterparty risk; and 3) project failure/contract cancellation risk. In an effort to impute further conservatism in its risk management process (to mitigate against the prospect of compliance shortfalls), SDCP increased the 1.35% figure derived through its risk assessment to a full 2.00% delivery failure rate when preparing its Renewable Net Short calculations; this figure can be in rows 14 and 16 of the RNS reporting template. Such an (upward) adjustment was deemed appropriate to insure against unexpected renewable energy delivery shortfalls that could not be reasonably quantified through the aforementioned

assessment. Also note that SDCP increased its forecasted failure rate for RPS Facilities in Development to 27% in 2023, an adjustment that was intended to reflect anticipated operational delays and resultant delivery shortfalls based on correspondence received from project developers with which SDCP has entered into long-term RPS contracts. If such adjustments are deemed insufficient in the future, based on regular project development status updates, the results of a future SDCP risk assessment (using the methodology described above) or other information, SDCP will update such adjustments in a future planning document based on information specifically related to each contracting opportunity subsumed in Appendix C.

SDCP successfully procured nearly 56% of its total resource needs (PowerOn portfolio, plus Power100 portfolio) from RPS-eligible renewable resources since 2021 and, as a result, is now accruing renewable energy quantities in excess of applicable statewide mandates. Renewable suppliers have generally performed as expected, so the noted failure rates that are reflected in Exhibit C (set at two percent in future years) are in excess of the findings reflected in SDCP's previously described risk assessment, which indicate that 1.35 percent of such supply may be at risk. If supplier performance becomes more erratic in the future and adjustments to these assumptions are deemed necessary, SDCP will reflect such adjustments in a future planning document.

#### **IX. Minimum Margin of Procurement (MMoP)**

SDCP is developing an electricity supply portfolio that will further the achievement of state mandates as well as internally adopted goals for increasing RPS-eligible renewable energy supply over time. The following table displays SDCP's intended margin of RPS over-procurement based on the differential between the SB 100 procurement targets and SDCP's internally adopted RPS procurement targets. This table reflects SDCP's voluntary margin of



over-procurement, or VmoP.

### State & Internally Adopted Renewable Energy Requirements

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>SB 100 RPS Procurement Requirement (% of Retail Sales)</b>	38.5	41.3	44.0	46.7	49.3	52.0	54.7	57.3	60.0	60.0	60.0	60.0
<b>SDCP's Minimum Internally Adopted RPS Procurement Target</b>	54.2	58.3	62.5	66.7	70.8	75.0	78.3	81.7	85.0	88.0	91.0	94.0
<b>SDCPs Voluntary Margin Over-Procurement (% of Retail Sales)</b>	15.7	17.1	18.5	20.0	21.5	23.0	23.7	24.3	25.0	28.0	31.0	34.0

As reflected in the previous table, SDCP's RPS-eligible renewable energy target was set at a minimum 50 percent in 2021, increasing steadily to 75 percent by 2027 and to 100 percent by 2035. SDCP's internally adopted renewable energy procurement targets are intended to support SDCP's broader goal of providing a minimum 90% carbon-free electricity to all customers by 2030. SDCP's internally adopted minimum renewable energy procurement goals ensure a significant margin of procurement above the SB 100 mandates. SDCP's internally adopted renewable energy procurement goals provide a meaningful buffer above the state's RPS requirements and serve as SDCP's VmoP – SDCP's VmoP will minimally exceed statewide RPS mandates by at least 15 percent (relative to retail sales), increasing in each year through 2035.

To address RPS compliance risk, SDCP uses its risk assessments, including its renewable net short calculations, to establish a Minimum Margin of Procurement to guide RPS compliance procurement planning. SDCP calculated the minimum margin of procurement, or MMoP, using a 10% risk adjustment (or planning reserve) that was applied to SDCP's minimum internally adopted RPS procurement target (see row 2 in the previous table), which is reflective of the renewable content offered through SDCP's default retail service offering, PowerOn. On a voluntary basis, SDCP customers may enroll in SDCP's 100% renewable energy service offering, Power100 – customer participation in this program increases SDCP's

overall renewable energy need but also provides an enhanced procurement buffer relative to applicable compliance mandates. This noted, SDCP does not include/rely on additional renewable energy volumes required to serve Power100 customers in determining its MMoP or VMoP – such incremental renewable energy purchases are additive to SDCP’s MMoP and VMoP (meaning that such volumes are in excess of the additional renewable energy purchases required to meet SDCP’s MMoP and VMoP). Based on the manner in which SDCP has established its MMoP, as a 10% planning risk adjustment relative to total PowerOn renewable energy requirements, the effective MMoP percentages observed by SDCP are approximately 14%-15%, relative to SDCP’s projected RPS compliance need, for each year through 2033. The following chart provides additional detail regarding the effective MMoP percentages observed by SDCP.

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>SB 100 RPS Procurement Requirement (% of Retail Sales)</b>	38.5	41.3	44.0	46.7	49.3	52.0	54.7	57.3	60.0	60.0	60.0	60.0
<b>SDCP’s Minimum Internally Adopted RPS Procurement Target</b>	54.2	58.3	62.5	66.7	70.8	75.0	78.3	81.7	85.0	88.0	91.0	94.0
<b>SDCP’s RPS Planning Risk Adjustment (at 10% of Minimum Internally Adopted RPS Target)</b>	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
<b>SDCP’s Minimum Margin of Over-Procurement (% of Retail Sales)</b>	5.4	5.8	6.3	6.7	7.1	7.5	7.8	8.2	8.5	8.8	9.1	9.4
<b>SDCP’s Minimum Margin of Over-Procurement (% buffer relative to RPS Mandate)</b>	14.1	14.1	14.2	14.3	14.4	14.4	14.3	14.2	14.2	14.7	15.2	15.7

SDCP’s MMoP is intended to address potential delivery variability for intermittent resources, curtailment risk, project delays (or failures) and other operational peculiarities that may cause actual renewable energy deliveries to deviate from projections. Note that certain SDCP’s renewable energy deliveries are not subject to variability – such agreements reflect minimum fixed delivery quantities (or quantities with limited volumetric variability) with corresponding financial penalties (paid to SDCP by related sellers in the event of delivery shortfalls). SDCP has limited exposure to resource intermittency via its long-term renewable

supply agreement with Duran Mesa, LLC. Other sources of exposure will occur as other contracts come online in 2023 and beyond and have been accounted for in SDCP's previously described risk assessment.

If SDCP adopts changes to its future renewable energy content/offerings, future RPS procurement planning documents will be updated accordingly. Staff assumes that future renewable procurement targets (inclusive of planning reserves necessary to meet RPS mandates) will consider a variety of factors, including but not limited to, the operational status of prospective renewable energy facilities to be placed under contract, the experience and general development track record of each project development team (associated with new resources), resource size (capacity), the location of prospective generating resources (for new facilities) and impacts of over-procurement to the CCA program's procurement budget and customer rates – certain of these factors are appropriately considered in SDCP's quantitative risk assessment.

#### **IX.A. MMoP Methodology and Inputs**

SDCP's MMoP is intended to address an RPS failure rate at or above that which is reflected in the renewable net short reporting template. In the event of contract under-deliveries, commercial operation delays and/or project failures, the MMoP should be sufficient to ensure SDCP is compliant with the RPS procurement requirements. SDCP's VMoP is the annual RPS-eligible minimum portfolio content identified in SDCP's internally adopted planning targets.

As discussed in Section VIII, SDCP has incorporated risk adjustments to certain renewable energy delivery estimates associated with existing generating facilities (due to increased fire risk throughout the state of California and the potential for related delivery reductions; delivery intermittency is also subsumed in prescribed risk adjustments) and resources that are under development. Achieving SDCP's MMoP necessitates higher levels of

renewable energy procurement (approximately 14% over SDCP’s annual RPS compliance needs for each year through 2033), which accommodate the potential for delivery shortfalls (due to a variety of circumstances) while still allowing SDCP to meet prescribed RPS mandates. Considered in concert, SDCP’s VMoP, which ranges from 15.7% to 34.0% over the planning period, and MMoP provide a substantial aggregate renewable energy planning buffer, which increases from 21.1% in 2022 to 43.4% in 2033, relative to applicable compliance mandates., as reflected in the following table.

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>SB 100 RPS Procurement Requirement (% of Retail Sales)</b>	38.5	41.3	44.0	46.7	49.3	52.0	54.7	57.3	60.0	60.0	60.0	60.0
<b>SDCP’s Minimum Internally Adopted RPS Procurement Target</b>	54.2	58.3	62.5	66.7	70.8	75.0	78.3	81.7	85.0	88.0	91.0	94.0
<b>SDCPs Voluntary Margin Over-Procurement (% of Retail Sales)</b>	15.7	17.1	18.5	20.0	21.5	23.0	23.7	24.3	25.0	28.0	31.0	34.0
<b>SDCP’s Minimum Margin of Over-Procurement (% of Retail Sales)</b>	5.4	5.8	6.3	6.7	7.1	7.5	7.8	8.2	8.5	8.8	9.1	9.4
<b>SDCP’s Aggregate Margin of Over-Procurement (% of Retail Sales)</b>	21.1	22.9	24.8	26.7	28.6	30.5	31.5	32.5	33.5	36.8	40.1	43.4

SDCP will effectively ensure its compliance with applicable RPS mandates by procuring in consideration of internal renewable energy goals that meaningfully exceed state-adopted requirements. SDCP currently provides a minimum 50% renewable energy content to all customers as part of its default retail service offering. SDCP’s governing board may periodically consider increases to such renewable energy content for purposes of ensuring that SDCP differentiates its supply portfolio from applicable state-mandated renewable content. The extent to which SDCP will exceed statewide RPS mandates will be dependent upon a variety of factors, including RPS product availability, product cost and budgetary impacts and timely product deliveries from generating facilities under contract with SDCP. As SDCP’s governing board considers and adopts changes to its internal renewable energy procurement targets, the organization will accordingly update future RPS planning documents to reflect such changes.

## **IX.B. MMoP Scenarios**

SDCP plans to meet the annual program renewable goals reflected in the table presented in Section IX (above), including the MMoPs reflected therein. As reflected in this table, SDCP's anticipated MMoP percentages range from 14.1% in 2022 to 15.7% in 2033. The renewable net short included in the RNS Quantitative Template also incorporates the additional RPS-eligible renewable energy need resulting from SDCP's VMoP, which reflects its internally adopted renewable energy procurement goal that increases from 50% in 2022 to 85% in 2030 and 100% in 2035.

During its bid evaluation and supplier selection processes, SDCP considers a variety of risks and will explicitly incorporate such risks into its MMoP calculation after related contracting processes are complete and project development progress (for new-build renewable projects) is being tracked by SDCP staff. Based on the information gathered during SDCP's contract management process (which focuses on key milestone achievement and deviations from initial project development schedules for new-build projects), SDCP may adjust expected renewable energy deliveries. To the extent that adjusted future deliveries meaningfully differ from SDCP's previous expectations, additional RPS procurement may be pursued to ensure that SDCP maintains its desired MMoP and related minimum customer delivery commitments.

SDCP will also model demand-side sensitivities that may impact MMoP calculations. This will be particularly important during administration of SDCP's expansion activities, as participation rates are expected to be most volatile during such periods of time. In addition to load variability resulting from customer participation levels, SDCP will also monitor electric vehicle ("EV") penetration rates, net energy metering participation rates and other considerations that may impact overall customer energy requirements and related demand-based MMoP

calculations.

## **X. Bid Solicitation Protocol**

### **X.A. Solicitation Protocols for Renewables Sales**

SDCP does not have immediate plans to issue a solicitation for sales of renewable energy products/projects. If such a need arises in the future, however, SDCP will consider a protocol that: 1) ensures that SDCP remains compliant with applicable RPS procurement mandates; 2) minimizes overall portfolio costs to the greatest extent practical; and 3) provides sufficient flexibility to accommodate reasonably anticipated supply-side and demand-side changes that could impact SDCP's overall renewable energy requirements.

### **X.B. Bid Selection Protocols**

Consistent with Public Utilities Code section 399.13(a)(5)(C),<sup>14</sup> SDCP shall conduct solicitations for requisite energy resources, including specific needs for eligible renewable energy resources (reflecting locational preferences, when applicable, for such resources), generating capacity, and required online dates to assist in determining what resources fit best within its supply portfolio. Since CCA program governing boards are comprised of local elected officials, these solicitation and procurement decisions are overseen by elected representatives of the community. These solicitation and procurement decisions will seek to comply with targets and preferences that are considerate of local priorities and interests. Any new renewable energy supply agreements resulting from ongoing contract negotiations and future solicitation processes

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<sup>14</sup> Cal. Pub. Util. Code § 399.13(a)(5)(C) (“Standard terms and conditions to be used by all electrical corporations in contracting for eligible renewable energy resources, including performance requirements for renewable generators. A contract for the purchase of electricity generated by an eligible renewable energy resource, at a minimum, shall include the renewable energy credits associated with all electricity generation specified under the contract. The standard terms and conditions shall include the requirement that, no later than six months after the commission’s approval of an electricity purchase agreement entered into pursuant to this article, the following information about the agreement shall be disclosed by the commission: party names, resource type, project location, and project capacity.”).

will be brought to SDCP’s governing board for approval prior to execution.

SDCP’s most recent RPS solicitations, Q4 2022 Long-Term California RPS-Eligible Renewable Energy RFP, Q1 2023 Long-Term California RPS-Eligible Renewable Energy RFP, and Q2 2023 Request for Offers for Standalone Storage are attached as Appendix F. Pursuant to Public Utilities Code 399.13(a)(6)(C),<sup>15</sup> SDCP’s RFP included a variety of considerations in related bid solicitation protocols as well as the proposal evaluation and selection process, including:

1. Price and relative value within SDCP’s supply portfolio;
2. Project location and benefits to the local economy and workforce;
3. Potential economic benefits created within communities with high levels of poverty and unemployment;
4. Project development status, including but not limited to progress toward interconnection, deliverability, siting, zoning, permitting, and financing requirements;
5. Qualifications, experience developing projects in California and/or with CCAs, financial stability, and structure of the prospective project team (including its ownership);
6. Environmental impacts and related mitigation requirements, including impacts to air pollution within communities that have been disproportionately impacted by the existing generating fleet;
7. Potential impacts to grid reliability;
8. Interconnection status, including queue position, full deliverability of Resource Adequacy capacity, and related study completion, if applicable
9. Acceptance of SDCP’s standard contract terms; and
10. Development milestone schedule, if applicable.

SDCP’s Inclusive and Sustainable Workforce Policy, adopted January 28, 2021, considers impacts to the local economy and workforce. SDCP will specifically consider “the employment growth associated with the construction and operation of eligible renewable energy

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<sup>15</sup> Cal. Pub. Util. Code § 399.13(a)(6)(C) (“Consistent with the goal of increasing California’s reliance on eligible renewable energy resources, the renewable energy procurement plan shall include all of the following: A bid solicitation setting forth the need for eligible renewable energy resources of each deliverability characteristic, required online dates, and locational preferences, if any.”).

resources.”<sup>16</sup> More specifically, to the extent SDCP procures new RPS resources in solicitations where qualitative factors are considered, SDCP will include a qualitative assessment of the extent to which proposed project development activities will support this goal. Such determinations will be based on information provided by the prospective supplier and SDCP’s independent assessment of such information. When SDCP procures RPS resources, it will require bidders to submit information on projected California employment growth during construction and operation. This data will include the expected number of hires, duration of hire, and an indication of whether the bidder has entered into Project Labor Agreements or Maintenance Labor Agreements in California for the proposed project.

Pursuant to Public Utilities Code section 366.2(m), Community Choice Aggregators like SDCP are required to annually submit a report to the CPUC, which provides a (1) detailed and verifiable plan for increasing procurement from small, local, and diverse business enterprises; and (2) a report regarding its procurement from women, minority, disabled veteran, and LGBT business enterprises.<sup>17</sup> On March 1, 2023, SDCP submitted its *Supplier Diversity 2022 Annual Report and 2023 Annual Plan* to the Commission in compliance with SB 255 and CPUC General Order (GO) 156.<sup>18</sup> As outlined in its most recent report and plan, SDCP continues to build its Supplier Diversity program which aims to support, to the extent applicable by law, the principles of the CPUC GO 156 by increasing the number of diverse suppliers, including power providers, to SDCP.<sup>19</sup> SDCP maintains a dedicated webpage to promote its Supplier Diversity program,

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<sup>16</sup> See *Inclusive and Sustainable Workforce Policy*, adopted January 28, 2021, available at <https://sdcommunitypower.org/resources/meeting-notes/>.

<sup>17</sup> See *Supplier Diversity* at <https://www.cpuc.ca.gov/supplierdiversity/>.

<sup>18</sup> See [https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/bco/cca-procurement-reports/2022/sdcp\\_go-156\\_2022-annual-report-and-2023-annual-plan-final-03\\_01\\_2023.pdf](https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/bco/cca-procurement-reports/2022/sdcp_go-156_2022-annual-report-and-2023-annual-plan-final-03_01_2023.pdf).

<sup>19</sup> See Section 11, Page 23 at <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/bco/go-156-d22-04-035.pdf>.



encourage participation, and provide resources for vendors and suppliers.<sup>20</sup>

Pursuant to Public Utilities Code section 399.13(a)(8)(A), SDCP will also consider the inclusion of evaluative preference for “renewable energy projects that provide environmental and economic benefits to communities afflicted with poverty or high unemployment, or that suffer from high emission levels of toxic air contaminants, criteria air pollutants, and greenhouse gases.”<sup>21</sup> To the extent that SDCP procures RPS resources through solicitations where qualitative factors are considered, impact on disadvantaged communities will be considered. Such information will be gathered by requiring prospective suppliers to answer the following questions: Is your facility located in a community afflicted with poverty or high unemployment or that suffers from high emission levels? If so, the participant will be encouraged to describe how its proposed facility can provide the following benefits to adjacent communities:

- Projected hires from adjacent community (number and type of jobs);
- Duration of work (during construction and operation phases);
- Projected direct and indirect economic benefits to the local economy (i.e., payroll, taxes, services);
- Emissions reduction – identify existing generation sources by fuel source within 6 miles of proposed facility and indicate whether the proposed facility will replace/supplant the identified generation sources; and

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<sup>20</sup> See *Supplier Diversity* at <https://sdcommunitypower.org/supplier-diversity/>.

<sup>21</sup> Cal. Pub. Util. Code § 399.13(a)(8)(A) (“In soliciting and procuring eligible renewable energy resources for California-based projects, each electrical corporation shall give preference to renewable energy projects that provide environmental and economic benefits to communities afflicted with poverty or high unemployment, or that suffer from high emission levels of toxic air contaminants, criteria air pollutants, and greenhouse gases.”).

- To the extent that the proposed generating facility is expected to replace/supplant an existing generating facility, the prospective supplier will be asked to quantify the associated emission impacts of this transition.

These considerations, including others that may be adopted by SDCP's governing board in future meetings, will be incorporated, as appropriate, in future solicitations administered by the organization.

### **X.C. LCBF Criteria**

The Least-Cost Best Fit methodologies approved by the Commission pursuant to D.04-07-029, D.11-04-030, D.12-11-016, D.14-11-042, and D.16-12-044 are expressly only directly applicable to the IOUs and the Commission does not have jurisdiction over the solicitation protocols of CCAs. However, consistent with Public Utilities Code sections 399.13(a)(9), SDCP will consider best-fit attributes that support a balanced mix of resources to help support reliability of the electrical grid.<sup>22</sup>

In particular, SDCP considers "least cost best fit" ("LCBF") during the evaluation of responses to all of its renewable energy solicitations and will continue to do so in future solicitations. From SDCP's perspective, use of the term "costs" appropriately includes considerations beyond the basic price of renewable energy. More specifically, costs include a broad range of considerations, such as: 1) reputational damage resulting from failure to meet state-mandated and/or internally established renewable energy procurement targets; 2) compliance penalties resulting from failed project development efforts or delivery shortfalls; 3) administrative complexities related to dealing with inexperienced suppliers (such as prolonged

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<sup>22</sup> Cal. Pub. Util. Code § 399.13(a)(9) ("In soliciting and procuring eligible renewable energy resources, each retail seller shall consider the best-fit attributes of resource types that ensure a balanced resource mix to maintain the reliability of the electrical grid.").

contract negotiation processes and uncertainties related to project milestone timing and achievement); and 4) impacts to planning certainty resulting from higher risk projects. These factors, as well as various others, will continue to be considered by SDCP as components of its cost evaluation process, which may lead to the selection of offers that aren't necessarily the lowest cost option(s), as expressed on a dollar-per-MWh basis. With regard to "fit", this aspect of a prospective supply opportunity has as much to do with compatibility (between SDCP and its suppliers) and alignment with key local objectives as it does with balancing customer usage and expected project deliveries, particularly when considering long-term contracting opportunities that will necessitate a constructive working relationship over a period of ten years or more. SDCP also interprets the term "fit" to mean the general suitability of a project opportunity in promoting grid reliability – while SDCP has no explicit operational or maintenance responsibilities related to the local distribution system serving its customers or the bulk electric system at large, it is aware of the profound importance of supporting grid reliability through its procurement processes. With this in mind, SDCP will make best efforts to balance the demands of California's rigorous RPS compliance mandates and its interest in promoting such reliability. This is no small task, and SDCP expects that considerations related to grid reliability will be incorporated at each stage of its planning and procurement processes but also acknowledges that the full scope of its RPS contract/resource portfolio (including related impacts to grid reliability) will significantly evolve throughout the organizations operating history. Over time, SDCP expects to thoughtfully assemble a diversified portfolio of RPS contracts/resources that will not only contribute to SDCP's achievement of applicable compliance mandates but also to improved stability and reliability of California's electric system. As such, SDCP's LCBF methodology will consider a broad range of components, including those previously noted, balancing a variety

of pertinent considerations at the time each renewable purchase opportunity is being evaluated.

Additionally, the requirement of Section 399.13(a)(8)(A) to give preference to renewable projects located in certain communities is expressly only applicable to “electrical corporations” and is not mandatory for CCAs.<sup>23</sup> However, SDCP recognizes the need to help mitigate the impacts of air pollution in regions of the state where communities have been disproportionately impacted by the existing generating fleet as well as the need to bring economic benefits to communities with high levels of poverty and unemployment. Consistent with this recognition, SDCP will consider the manner in which air pollution may be impacted during its renewable energy solicitation process(es) and related project selection.

## **XI. Safety Considerations**

San Diego Community Power holds safety as a top priority. Since SDCP does not own, operate, or control generation facilities, SDCP’s procurement of renewable resources will not present any unique safety risks. This section describes how SDCP has taken actions to reduce the safety risks that may be posed by its renewable resource portfolio and how SDCP supports the state’s environmental, safety, and energy policy goals.

In its procurement efforts, SDCP will consider the extent to which incorporating project safety requirements/risk mitigation requirements is necessary and appropriate in contracting. SDCP has generally included safety terms in its contracts requiring the seller to comply with all laws and prudent operating practices relating to the operation and maintenance of the renewable

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<sup>23</sup> Cal. Pub. Util. Code § 399.13(a)(8)(A) (“In soliciting and procuring eligible renewable energy resources for California-based projects, each electrical corporation shall give preference to renewable energy projects that provide environmental and economic benefits to communities afflicted with poverty or high unemployment, or that suffer from high emission levels of toxic air contaminants, criteria air pollutants, and greenhouse gases.”).

facility and the generation and sale of the renewable product. Additionally, the seller shall take all reasonable safety precautions with respect to the operation, maintenance, repair and replacement of the facility, and notify SDCP if seller becomes aware of any circumstances relating to the facility that creates an imminent risk of damage or injury to any person or any person's property, taking prompt, reasonable action to prevent such damage or injury. SDCP is aware that requesting more stringent processes and/or requirements (related to safety and/or other concerns) may trigger requested price increases by the seller/supplier. To the extent that product pricing would meaningfully increase due to the inclusion of such provisions, SDCP would need to evaluate budgetary impacts and other risks before proceeding.

In addition, SDCP has provided additional information below on its existing safety practices.

### **XI.1. Wildfire Risks and Vegetation Management**

In ongoing and future negotiations, SDCP will ensure that its contracts with renewable generating facilities will require the facility operator to comply with all relevant safety requirements. This will be accomplished, in part, through contract provisions that require the counterparty to operate and maintain the facility in compliance with all relevant laws and prudent operating practices, including relevant safety and environmental protection standards.

At this point in time, SDCP has yet to adopt specific procurement policies or preferences focused on the acquisition of forest biomass resources. SDCP is aware of the mitigating impacts that biomass generators, which use forestry waste as feedstock, may have on wildfire risk and will consider the adoption of a related procurement policy in the future.

One of the evaluative criteria considered by SDCP is project location. Part of this evaluation will include an analysis of project location with respect to wildfire risk. Projects that

are sited in a high wildfire risk area may be scored lower, and the expected output associated with such project(s) may be reduced to account for potential reductions in output that may occur if fires happen to compromise the project or surrounding infrastructure. SDCP is aware of instances when CCAs have received lower-than-expected deliveries from renewable generating facilities that were required to shut down or reduce output when fire risk compromised such electrical infrastructure. Based on this information, generating assets located in areas that are historically prone to fire risk will need to be considered in light of the potential for reduced output and resultant impacts to SDCP's RPS compliance standing.

SDCP is also considering the development of a program to educate and possibly incentivize its customers to eliminate or minimize the use of diesel and natural gas generators. As evidenced during Pacific Gas and Electric Company's 2019 Public Safety Power Shutoff ("PSPS") events, gas-powered generators can present fire hazards. Since all 4 phases of SDCP residential and commercial accounts have been phased in (April 2023), SDCP can consider the development of a customer outreach initiative/education program to inform customers of the potential hazards presented by customer-sited gas generators, including fire risk presented by such infrastructure. This is especially important for SDCP customers located in the eastern portion of its service territory, which is semi-rural, hotter, and drier than other parts of San Diego County, making it an area of increased wildfire risk.

In future solicitations, SDCP will identify whether any of the bidding generating facilities are located within Tier 2 or Tier 3 of the Commission's Fire-Threat Map. When evaluating or executing a contract with a facility located in Tier 2 or Tier 3, SDCP will consider requiring that the seller utilize elevated wildfire prevention and safety measures for any construction, operation, and maintenance activities.

## **XI.2. Decommissioning Facilities**

As SDCP continues to complete long-term contracting efforts, it has not developed any plans or requirements related to the disposition of associated generating facilities following completion of applicable delivery terms. In SDCP's contract negotiations, SDCP will evaluate requiring the seller to provide a project safety plan or a similar type of reporting document, which will include information on procedures for identifying and remediating safety incidents, as well as describing any relevant requirements (such as those associated with the permitting of the facility) for the decommissioning of the facility.

## **XI.3. Climate Change Adaptation**

SDCP's internally adopted portfolio targets, relating to the use of renewable energy and other carbon-free energy supply, are intended to support the CAPs of Member Agencies and the San Diego Region at large. In future solicitations, SDCP will consider updating its bid evaluation criteria in consideration of the policies and preferences of its membership, including but not limited to risks associated with facilities located in regions that are forecasted to be impacted by higher instances of sea-level rise, flooding, wildfires, and/or elevated temperatures. As noted above, SDCP has incorporated references to the Climate Action Plans of the Member Agencies and will provide more detailed strategies for climate change adaptation in its 2021 RPS Procurement Plans.

## **XI.4. Impacts During Public Safety Shut-off (PSPS) Events**

Potential impacts related to PSPS events are uncertain. However, regarding resource planning, it is likely that a relatively short-duration PSPS event impacting SDCP would marginally reduce retail electric sales and, as a result, would generate a very small increase in the

proportionate share of renewable energy supply accruing to SDCP (if renewable supply agreements continue to perform as expected during such events). As SDCP executes contracts with renewable generating facilities, it will evaluate the risk of the loss of generation associated with PSPS events both for facilities that are already online and for facilities that are still under development. Based on impact of prior PSPS events to generating facilities, SDCP anticipates that the total quantity of any PSPS-related reductions in RPS-eligible generation will be relatively small and would likely be offset by the potential reduction in retail sales that would result from PSPS events that directly impact SDCP's customers. Therefore, the likelihood of a material impact to SDCP's renewable energy planning process or related performance metrics seems unlikely.

#### **XI.5. Biomass Procurement**

SDCP's neutral position on biomass procurement remains unchanged. While SDCP has no specific preferences for or against biomass resources, the prospect of procuring such resources will be dependent upon offers received during future solicitation processes. SDCP has executed a 5-year deal with an existing biomass facility and is in negotiations on a new-build facility that came to SDCP through the clean-form RFO that was issued in 2022. To the extent that future biomass offers/proposals are competitive (with similar offers received from other resource types) and/or in the event SDCP adopts policies explicitly supporting the acquisition of biomass energy resources, SDCP will consider the inclusion of biomass energy within its renewable energy supply portfolio.

#### **XII. Consideration of Price Adjustments Mechanisms**

During ongoing contracting processes and future solicitations, and consistent with SB 350 and SB 100, SDCP will review the prospects of incorporating price adjustments in contracts with



online dates more than 24 months after the date of contract execution. As noted in the ACR, such price adjustments could include price indexing to key components or to the Consumer Price Index.

### **XIII. Curtailment Frequency, Forecasting, Costs**

This Section responds to the questions presented in Section 6.13 of the ACR<sup>24</sup> and describe SDCP’s strategies and experience so far in managing SDCP’s exposure to negative pricing events, overgeneration, and economic curtailment for SDCP’s region and portfolio of renewable resources.

#### **XIII.1. Factors Having the Most Impact on the Projected Increases in Incidences of Overgeneration and Negative Market Price Hours**

SDCP will continue to monitor the California energy market, including information and considerations related to energy curtailment, potential cost impacts, contracting considerations, and other concerns. The following represents SDCP’s understanding of this topic, which may impact future procurement processes.

Due in large part to the rapid increase in the amount of wind and solar generating facilities that have been brought online throughout the western United States, the California Independent System Operator’s (“CAISO”) balancing authority area has experienced an increasing frequency and magnitude of curtailment and negative pricing events. The U.S. Energy Information Agency (“EIA”) estimates that as of March 2023, California has 34,185.5 MW of installed solar capacity, with 15,475.2 MW of that total being behind-the meter solar.<sup>25</sup> The CAISO reports that it has approximately 16,400 MW of utility-scale solar and 7,900 MW of

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<sup>24</sup> See *Assigned Commissioner and Assigned Administrative Law Judge’s Ruling Identifying Issues and Schedule of Review for 2023 Renewables Portfolio Standard Procurement Plans*, May 5, 2023 at p. 32.

<sup>25</sup> EIA, *Electric Power Monthly, Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, March 2023 and 2022 (Megawatts)*, available at: [https://www.eia.gov/electricity/monthly/epm\\_table\\_grapher.php?t=table\\_6\\_02\\_b](https://www.eia.gov/electricity/monthly/epm_table_grapher.php?t=table_6_02_b).

utility-scale wind currently installed within its balancing authority area.<sup>26</sup> This increased capacity results in discrete periods where the majority of load in the CAISO is served by solar and wind resources. The monthly maximum load served by wind and solar in the CAISO has averaged 68.6 percent over the past 4 years (April 2019 to April 2023), and in April of 2023 the monthly maximum load served by wind and solar was 93%, while the maximum 5-minute amount of all renewables serving load was 103.5%.<sup>27</sup> To address the resulting instances of oversupply, the amount of curtailment of wind and solar in the CAISO has significantly increased each year from 2015 through 2020, totaling 187,000 MWh in 2015, 308,000 MWh in 2016, 379,510 MWh in 2017, 461,043 MWh in 2018, 965,241 MWh in 2019, 1,586,500 MWh in 2020, 1,504,803 in 2021, and 2,449,248 in 2022.<sup>28</sup> As of June 30, 2023, the total curtailment of solar and wind year to date is already 2,160,057 MWh.<sup>29</sup> Curtailment is typically the highest during the months of March, April, and May when hydroelectric generation is historically at its highest.

SDCP will continue to monitor this situation to the extent such circumstances are likely to impact procurement activities and contract administration. If prospective renewable generating opportunities are located in areas that are prone to frequent instances of negative market pricing (based on available historical data), SDCP will be sure to evaluate such data to better understand prospective financial impacts and/or pursue contractual pricing structures that will insulate the CCA program from such risks. When SDCP considers specific renewable project/contract opportunities in the future, it will likely assume that incidences of over-

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<sup>26</sup> CAISO, What are we doing to green the grid?, updated March 9, 2023, at <http://www.caiso.com/informed/Pages/CleanGrid/default.aspx>

<sup>27</sup> CAISO, Monthly Renewables Performance Report, April 2023, available at <http://www.caiso.com/Documents/MonthlyRenewablesPerformanceReport-Apr2023.html> .

<sup>28</sup> CAISO, Managing Oversupply, Wind and Solar Curtailment Totals, updated July 7, 2023, available at <http://www.caiso.com/informed/Pages/ManagingOversupply.aspx>.

<sup>29</sup> *Id.*

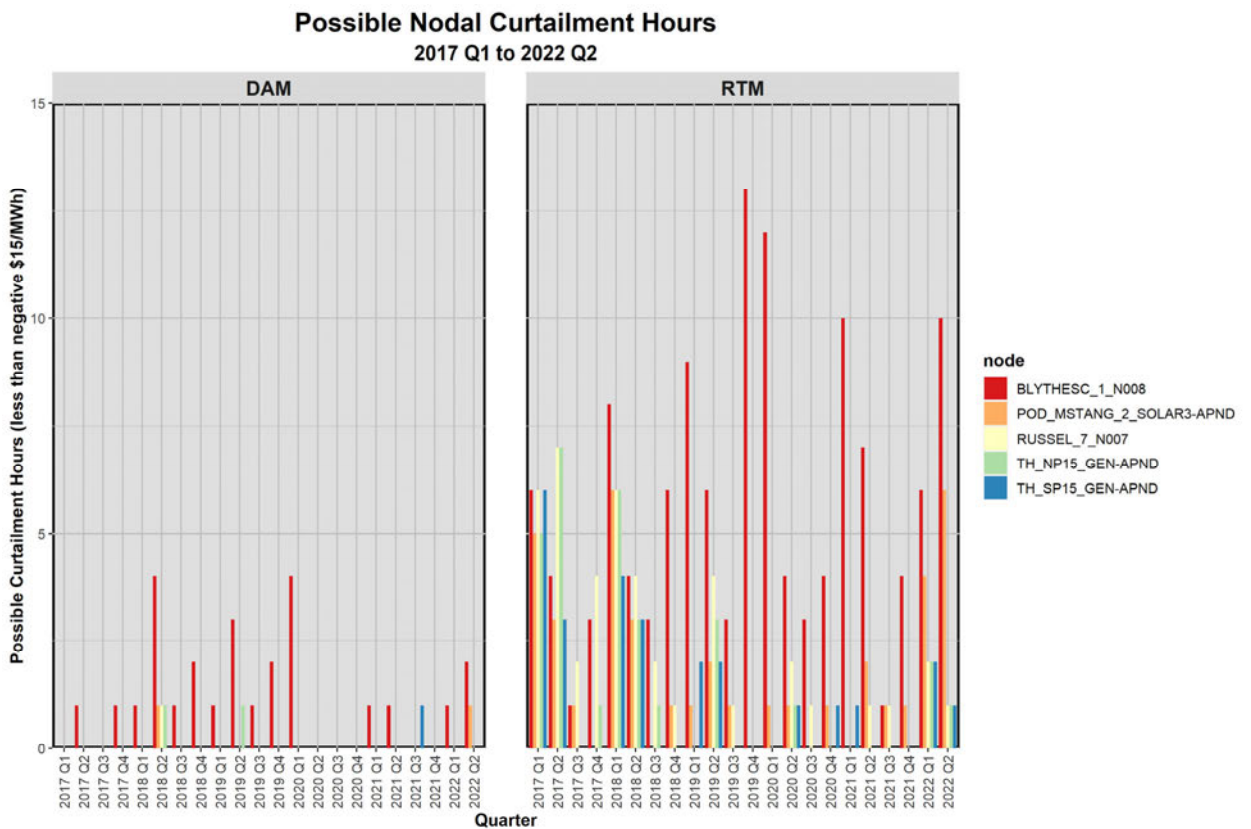
generation will continue to occur (or increase) in areas of the state with low load and relatively high levels of generation. To the extent there are not opportunities to store, export or otherwise use such generation as it occurs, SDCP understands that market pricing would likely be suppressed to the extent that generation exceeds load; and to the extent that generation meaningfully exceeds load, market pricing could turn negative (or significantly negative). This concern was previously considered by SDCP and will continue to be considered when evaluating future renewable project/contract opportunities, and to the extent that certain project locations seem predisposed to incidences of negative pricing, SDCP will weigh such risk against other available project/contract opportunities. Ultimately, SDCP must satisfy its RPS procurement mandates and will need to procure among available opportunities, even if such opportunities present related risks to SDCP – in such instances, SDCP may seek to minimize its negative price risk through contract structures that alleviate these concerns for the buyer.

### **XIII.2. Written Description of Quantitative Analysis of Forecast of the Number of Hours Per Year of Negative Market Pricing for the Next 10 Years**

Negative prices in the CAISO market can significantly impact the cost and overall value of renewable generating assets, particularly if such supply agreements apply market-based settlement mechanisms to determine charges assessed to the buyer. Thus, it is important that SDCP consider the siting of prospective renewable generating resources to avoid taking on unforeseen costs or lower than expected delivered energy quantities, which may result from economic curtailments. For this reason, SDCP has endeavored to quantify the potential occurrence of negative pricing events within certain areas of the state that are known to include significant levels of renewable generating capacity. To improve its understanding of such risks, SDCP has assembled a historic negative pricing analysis with the average results of such analysis being used as SDCP's ten-year negative price forecast. SDCP notes that moderately negative

prices – between zero and \$15/MWh – are not expected to trigger meaningful economic curtailments, as the cost of procuring replacement RPS supply under index-plus pricing arrangements would likely be equivalent in cost; in such instances, there would be little sense for SDCP to curtail renewable energy deliveries.

Below are several charts which illustrate the number of potential historic curtailment events that would have been triggered when nodal prices fell below negative \$15/MWh (SDCP’s prescribed pricing benchmark that was applied to identify potential economic curtailment incidents under this methodology). Estimates for the real-time market (RTM) have been averaged over the hour to promote comparability between day-ahead and RTM outcomes.



Using the historic data illustrated above, SDCP has created the following forecast that will be considered if future project opportunities are located adjacent to the specified nodes. If eventual project opportunities happen to be located in other geographic areas, SDCP would

update its analysis based on the node in closest proximity to the prospective generating resource. This forecast methodology allows SDCP to estimate the quantity of time energy will be curtailed from a renewable energy project. Because most curtailment hours occur within the real-time market, SDCP has also included a sample of its analyses for a subset of nodes that are known to be in close proximity to areas of the state in which prevalent renewable generation buildout has occurred. The color shading in the table is a visual cue reflecting curtailment density in certain hours of the year. This density will be helpful in determining the delivery profiles that may complement existing generating resources adjacent to the node as well as those that may exacerbate negative pricing. SDCP is mindful that it will need to annually evaluate relevant variables, such as regional hydrologic conditions and generalized weather trends, to determine if any adjustments ought to be made to its forecast.

BLYTHESC_1_N008 RTM												
Hour	January	February	March	April	May	June	July	August	September	October	November	December
1	.17	.50	.00	.17	.17	.00	.20	.20	.20	.00	.40	.20
2	.17	.17	.00	.00	.00	.33	.00	.20	.00	.00	.20	.20
3	.00	.17	.00	.00	.17	.17	.20	.20	.00	.00	.20	.00
4	.00	.17	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00
5	.00	.00	.17	.00	.00	.00	.20	.20	.00	.00	.20	.00
6	.17	.00	.00	.00	.33	.50	.20	.00	.00	.00	.40	.00
7	.00	.00	.00	.00	.50	1.00	.40	.20	.20	.00	.00	.40
8	.17	.50	.00	1.00	1.50	1.83	1.40	.40	.40	.40	.40	.80
9	.83	1.67	1.50	3.17	3.33	1.50	.40	.40	1.00	1.20	1.60	1.80
10	1.17	2.67	2.67	2.33	3.33	.67	.20	.40	1.60	2.20	2.60	3.60
11	2.67	3.00	3.00	2.50	2.17	.67	.00	.20	1.20	2.20	2.20	4.00
12	.83	2.83	2.50	2.83	2.17	.00	.20	.20	.80	2.40	2.60	2.60
13	3.00	3.17	4.50	1.33	1.33	.00	.00	.00	.60	1.00	2.20	2.60
14	1.00	3.83	4.33	2.17	1.33	.17	.00	.20	.60	2.40	1.20	2.40
15	1.00	4.17	4.33	1.67	.83	.50	.20	.00	.40	1.60	2.00	2.40
16	.67	3.00	3.00	1.50	.67	.00	.00	.00	.20	.80	1.40	.00
17	.17	.17	3.00	1.50	1.00	.00	.00	.00	.00	.20	.60	.40
18	.50	.17	.67	.17	.50	.00	.00	.00	.20	.00	.60	.80
19	.17	.17	.17	.00	.00	.00	.00	.00	.20	.00	.80	.80
20	.67	.50	.00	.00	.00	.00	.00	.20	.20	.00	.60	.40
21	.67	.17	.00	.00	.17	.17	.00	.20	.60	.00	.60	.20
22	.33	.50	.17	.00	.17	.33	.00	.00	.40	.00	1.00	.60
23	.33	.17	.00	.00	.00	.17	.20	.00	.60	.00	.40	.20
24	.17	.67	.33	.00	.00	.00	.00	.60	.20	.00	.40	.00
<b>Total Monthly Incidents of Neg.Pricing</b>	14.83	28.33	30.33	20.33	19.67	8.00	3.80	3.80	9.60	14.40	22.80	24.40
<b>Average Monthly Incidents of Neg.Pricing</b>	1.19	2.27	2.43	1.63	1.57	.64	.30	.30	.77	1.15	1.82	1.95
<b>Annual Adjustment Factor to be applied across 10-year forecast</b>	7.41%	14.15%	15.14%	10.15%	9.82%	3.99%	1.90%	1.90%	4.79%	7.19%	11.38%	12.18%

RUSSEL_7_N007 RTM													
Hour	January	February	March	April	May	June	July	August	September	October	November	December	
1	.17	.17	.00	.83	.50	.33	.20	.40	.00	.00	.00	.40	
2	.17	.17	.00	.83	.83	.50	.40	.20	.00	.00	.00	.40	
3	.00	.33	.00	.83	1.00	.17	.40	.40	.00	.00	.00	.40	
4	.00	.17	.00	.50	.83	.17	.20	.40	.00	.00	.00	.40	
5	.00	.00	.17	.50	.50	.00	.20	.20	.00	.00	.00	.40	
6	.00	.00	.00	.50	.50	.17	.20	.20	.00	.00	.00	.60	
7	.00	.00	.00	.50	.33	.83	.20	.20	.00	.00	.00	.80	
8	.00	.00	.00	.83	.33	.50	.40	.00	.20	.00	.00	.40	
9	.00	.50	.33	1.17	1.00	.50	.20	.20	.00	.00	.00	.40	
10	.00	1.00	.33	1.33	.67	.67	.00	.00	.00	.00	.00	.40	
11	.00	1.00	.67	.83	.67	.67	.00	.00	.00	.20	.00	.40	
12	.17	.33	.17	.67	1.00	.17	.00	.00	.00	.00	.00	.40	
13	.17	.17	.50	1.33	.50	.17	.00	.00	.00	.00	.00	.40	
14	.17	.17	1.00	1.17	.33	.17	.00	.00	.00	.00	.00	.20	
15	.17	.67	1.50	1.00	.67	.17	.00	.00	.00	.00	.00	.20	
16	.00	.83	2.17	1.00	.67	.17	.00	.20	.00	.00	.00	.20	
17	.00	.33	1.17	1.17	.67	.33	.20	.00	.20	.00	.00	.20	
18	.00	.00	.50	.33	1.00	.17	.00	.00	.20	.20	.00	.40	
19	.00	.00	.17	.50	.50	.33	.20	.00	.00	.00	.00	.40	
20	.00	.00	.00	.83	.33	.17	.00	.20	.00	.00	.00	.40	
21	.00	.00	.00	1.00	.17	.67	.20	.00	.20	.00	.00	.40	
22	.00	.17	.00	1.17	.33	.50	.20	.20	.00	.00	.00	.40	
23	.00	.17	.00	.83	.33	.17	.00	.20	.20	.00	.00	.40	
24	.00	.50	.33	1.67	.67	.33	.00	.20	.00	.00	.00	.40	
<b>Total Monthly Incidents of Neg.Pricing</b>	1.00	6.67	9.00	21.33	14.33	8.00	3.20	3.20	1.00	.40	.00	9.40	
<b>Average Monthly Incidents of Neg.Pricing</b>	.08	.53	.72	1.71	1.15	.64	.26	.26	.08	.03	.00	.75	
<b>Annual Adjustment Factor to be applied across 10-year forecast</b>	1.29%	8.60%	11.61%	27.52%	18.49%	10.32%	4.13%	4.13%	1.29%	0.52%	0.00%	12.12%	

### XIII.3. Experience, to Date, With Managing Exposure to Negative Market Prices and/or Lessons Learned from Other Retail Sellers in California

SDCP understands the exposure to negative price risk and that it should pay close attention to historical nodal energy prices at/near areas where prospective renewable generating facilities will/may be located. Gathering such information will facilitate an improved understanding of the frequency and significance of instances involving negative pricing and may influence project rankings within SDCP-administered solicitation processes. SDCP understands that negative pricing is more prevalent in certain geographic regions throughout the state, so contracting with generating resources located within or adjacent to such areas may expose the organization to higher-than-expected renewable energy/compliance costs. SDCP is aware that certain contract structures, including “index plus” pricing arrangements, may substantially minimize the financial impacts related to negative pricing. For example, numerous CCAs have pursued the use of index-plus pricing structures and, as a result, such contracts are generally insulated from instances involving negative market prices and/or curtailment risk. Another effective mitigation measure for negative price risk is the co-located installation of battery

storage infrastructure with intermittent renewable generating capacity. Such infrastructure generally allows the buyer to shift some or all (based on the size of the storage infrastructure) of the renewable energy production away from times of day when negative pricing can be particularly prevalent, allowing for the delivery of such power at times of day when market pricing is higher/stronger. SDCP has evaluated contracting and curtailment bid cap arrangements, as well as the inclusion of energy storage infrastructure, to minimize the risk of curtailment and negative pricing. In fact, two of SDCP's initial three long-term renewable energy supply contracts incorporate the use of battery storage to facilitate the shifting of production curves to better align with customer energy use and market pricing conditions. During its solicitation processes, SDCP will evaluate negative pricing history, as needed, for project opportunities that may expose the organization to such risks.

SDCP is pursuing a diversified portfolio of RPS contracts that seek to utilize a variety of contract structures, generating technologies, resource locations, suppliers/developers, risk allocation mechanisms and other considerations.

#### **XIII.4. Direct Costs Incurred, to Date, for Incidences of Overgeneration and Associated Negative Market Prices**

Based on current supply contracts, it has yet to incur direct costs related to negative pricing (for incidences of overgeneration associated with renewable generating facilities).

#### **XIII.5. An Overall Strategy for Managing the Overall Cost Impact of Increasing Incidences of Overgeneration and Negative Market Prices**

The direct costs associated with incidences of overgeneration are an unfortunate reality. It is the goal of SDCP to minimize these costs wherever possible by investigating mitigation strategies and learning lessons to avoid negative pricing through certain contracting mechanisms and operational strategies. While curtailment is a viable renewable integration strategy that is

generally more cost-effective than other options, there are potential negative consequences from excessive curtailment. Curtailment of solar and wind represents a lost opportunity to generate zero GHG- emitting electricity, and excessive curtailment could impact the ability of the state to meet its environmental and energy policy goals. Additionally, these over-supply situations expose ratepayers to increased costs because their LSEs must either economically curtail the generating resource (and often pay for the electricity that was not generated) or generate power and be exposed to negative prices. Because these conditions are largely driven by state policy, it is appropriate to consider macro-level mitigation measures through CAISO initiatives, Commission rulemakings, and possibly even legislation. There are a number of measures and policies that have already been implemented or are currently being pursued that will have significant impacts on curtailment in the future. This includes the expansion of the Energy Imbalance Market, improvements to the CAISO market design and structure, enhanced forecasting capabilities, time-of-use rates, improved EV charging functionalities, smart deployment of distributed energy resources, and furthered regional integration. The Commission’s IRP proceeding will be an appropriate forum to measure the impact of these policies and the effect that they will have on future curtailment. These new measures will need to be modeled and incorporated into forecasts of future curtailment.

#### **XIII.6. Contract Terms Included in RPS Contracts Intended to Reduce the Likelihood of Curtailment or Protect Against Negative Prices.**

As described elsewhere in this RPS Procurement Plan, SDCP is aware of potential cost, compliance, and environmental impacts of negative market prices and associated curtailment of renewable resources. SDCP is building its supply portfolio with the intent to limit SDCP’s exposure to negative pricing. SDCP has incorporated a number of strategies and relevant contract provisions to further reduce curtailment and negative price risk. Primarily, SDCP has



not signed a PPA with a solar-only (i.e. not co-located or hybridized with energy storage) generating facility that exposes SDCP to any market price exposure; instead, SDCP has preferred to contract with solar-plus-storage hybrid facilities. When contracting for solar or wind output not associated with hybrid or co-located facilities, SDCP has pursued index-plus pricing structures or fixed-volume contracts to ensure the same protection against negative prices and reductions in deliveries due to curtailment. When contracting with hybrid facilities that result in exposure to market prices, SDCP has maintained full dispatch rights of the facility to ensure that it can shift deliveries from negatively priced intervals and into higher priced periods, both to increase market revenues received and to reduce the magnitude of curtailed renewable generation. SDCP is likely to employ these strategies in future contracting while monitoring, exploring, and evaluating additional techniques to hedge against these potential outcomes.

#### **XIV. Cost Quantification**

SDCP has updated its Cost Quantification Table, Appendix E, based on current renewable energy supply contracts and has extended the planning period reflected in this appendix through 2033. SDCP will continue to update such information in future RPS procurement planning documents when new data points become available.

#### **XV. Coordination with the IRP Proceeding**

The resources identified in this RPS Procurement Plan are consistent with resources that were identified in SDCP's most recent IRP, which was approved by SDCP's governing board and provided to the Commission for certification on November 1, 2022. As required by the ACR, SDCP includes the following table that describes how SDCP's 2023 RPS Procurement Plan conforms with the determinations made in the IRP proceedings (R.16-02-007, R.20-05-003 and D.22-02-004). As required, SDCP will highlight the interrelationships of its RPS and IRP

planning processes in a future iteration of this RPS Procurement Plan. The following table reflects SDCP’s most recent updates, as reflected in its RPS Procurement Plan, regarding RPS alignment with the IRP process.

IRP Section Subsection	RPS Alignment in IRP	
<b>III. Study Results</b> <b>A. Preferred and Conforming Portfolios</b>	Retail sellers should explain how the RPS resources they plan to procure, outlined in their RPS Plan, will align with each portfolio to be developed in their IRP. In addition to the list of the IRP portfolios developed and portfolio descriptions submitted for Commission approval and certification in IRP Plans, this should include:	
	<ol style="list-style-type: none"> <li>1. Existing RPS resources that the retail seller owns or contracts.</li> <li>2. Existing RPS resources that the retail seller plans to contract with in the future.</li> <li>3. New RPS resources that the retail seller plans to invest in.</li> <li>4. New and existing resources that will be used to meet Mid-Term Reliability obligations adopted in D.21-06-035 and the supplemental procurement ordered in D.23-02-040.</li> </ol>	<p>As part of its 2022 IRP filing, SDCP submitted two Preferred Conforming Portfolios that achieve its proportional share of both the 30 and 25 MMT GHG targets by 2035. These targets were in addition to the requirements in D.22-02-004 which require LSEs to meet their proportional share of the 2030 target of 38 MMT and plan for a 2030 target of 30 MMT. Because SDCP has yet to finalize its initial long-term RPS supply commitments that will contribute to the achievement of such portfolio goals, this document reflects those resources that SDCP intends to contract with in the future. Such procurement efforts are expected to contribute to the achievement of relevant GHG targets as well as RPS procurement requirements, including the 65% long-term contracting requirement.</p> <p>Description of 2022 Conforming Portfolios:</p> <ul style="list-style-type: none"> <li>• 30 MMT Conforming Portfolio: Portfolio that achieves SDCP’s proportional share of a 30 MMT statewide GHG target.             <ul style="list-style-type: none"> <li>○ The 30 MMT Conforming Portfolio assumed the use of new RPS resources not yet placed under contract, including: 1,425 MW of new hybrid resources (which would include 750 MW of battery storage to promote grid reliability); 550 MW of new wind</li> </ul> </li> </ul>

		<p>resources; and 100 MW of new geothermal resources.</p> <ul style="list-style-type: none"> <li>○ The 30 MMT Conforming Portfolio also assumed the use of existing RPS resources not yet placed under contract, including: 250 MW of existing wind resources.</li> <li>○ SDCP’s 30 MMT portfolio conformed to the procurement timing, resource quantities, and general resource attributes identified in the 30 MMT reference system plan.</li> </ul> <ul style="list-style-type: none"> <li>● 25 MMT Conforming Portfolio: Portfolio that achieves SDCP’s proportional share of a 25 MMT statewide GHG target. <ul style="list-style-type: none"> <li>○ The 25 MMT Conforming Portfolio assumed the use of new RPS resources not yet placed under contract, including: 1,425 MW of new hybrid resources (which would include 750 MW of battery storage to promote grid reliability); 550 MW of new wind resources; and 100 MW of new geothermal resources.</li> <li>○ The 25 MMT Conforming Portfolio also assumed the use of existing RPS resources not yet placed under contract, including: 250 MW of existing wind resources.</li> <li>○ SDCP’s 25 MMT portfolio conformed to the procurement timing, resource quantities, and general resource attributes identified in the 25 MMT reference system plan.</li> </ul> </li> </ul> <p>Meeting the Mid-Term Reliability obligations from D.21-06-035:</p> <ul style="list-style-type: none"> <li>○ SDCP expects to meet the Mid-Term Reliability (“MTR”)</li> </ul>
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		<p>cumulative obligations by 2025 via resources that are currently under contract (scheduled to achieve commercial operation in 2024 or 2025) or under negotiation. SDCP’s RPS RFO’s in Q4 2022 and Q1 2023 targeted resources that could address any outstanding requirements for resources to be online in 2025 or, should they present, in 2023 or 2024. With respect to Long Leadtime obligations for resources to be online in 2026, SDCP closed its solicitation on July 6, 2022 for “clean firm” resources and closed another solicitation for stand-alone storage, including long-duration energy storage resources, in Q2 2023. SDCP notes that per D.23-2-040, see below, these long lead time obligations are now for resources to be online by 2028.</p> <p>Meeting the Mid-Term Reliability obligations from D.23-02-040:</p> <ul style="list-style-type: none"> <li>○ SDCP expects to meet the additional Mid-Term Reliability (“MTR”) obligations for D.23-02-040. via resources that are under negotiation from its 2023 Long-Term RPS RFO seeking projects with CODs through 2028. Additionally, SDCP is in negotiation with projects from its 2023 Stand-Alone Storage RFO for long-duration storage projects that would be considered long-lead time resources needed by 2028 under D.23-02-040.</li> </ul>
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<p><b>IV. Action Plan</b></p> <p><b>A. Proposed Activities</b></p>	<p>Retail sellers should describe how they propose to use RPS resources to implement their Preferred Portfolio. Narratives should include:</p>	
	<p><i>1. Proposed RPS procurement activities as required by Commission decision or mandated procurement.</i></p> <p><i>2. Description of RPS resources identified in the Study Results section that correspond to proposed activities.</i></p> <p><i>3. Procurement plans, potential barriers, and resource viability for each new RPS resource identified.</i></p>	<p>To ensure compliance with its GHG and RPS targets, SDCP plans to substantially rely on GHG-free and RPS-eligible resources while contributing to statewide reliability requirements and responsibly managing overall portfolio costs. This approach is generally consistent between the 30 MMT Conforming Portfolio and 25 MMT Conforming Portfolio in the 2022 IRP Plan.</p> <p>In its IRP, SDCP also established that its planned incremental capacity exceeds its pro rata share of capacity that may be needed for replacement of Diablo Canyon. These resources are further described in SDCP’s 2022 IRP and, following collaboration with SDG&amp;E to realign MTR procurement obligations and associated procurement and contract administration, SDCP maintains the expectation that its capacity from resources under contract and currently in negotiation will exceed requirements related to replacement of Diablo Canyon</p> <p>SDCP expects to administer future solicitation processes to fill outstanding resource needs required to meet portfolio specifications reflected in its 30 MMT and 25 MMT Preferred Conforming Portfolios as well as ongoing RPS procurement obligations. As noted elsewhere in this RPS Procurement Plan, SDCP will update the Commission with regard to the outcomes of its current long-term RPS contract negotiations in a future iteration of this planning process.</p> <p>SDCP does not foresee any barriers or viability concerns related to its requisite resource commitments but will advise the Commission if this impression changes over time.</p>

<b>IV. Action Plan B. Procurement Activities</b>	<p>The retail seller should describe the solicitation strategies for the RPS resources that will be included in their Preferred Portfolio. This description should include:</p>	
	<p><i>1. The type of solicitation.</i></p> <p><i>2. The timeline for each solicitation.</i></p> <p><i>3. Desired online dates.</i></p> <p><i>4. Other relevant procurement planning</i></p>	<p>SDCP may participate in distinct solicitations for different products (for example: specific renewable energy products, generating resources or storage infrastructure), or it may choose to solicit multiple products in the same solicitation. These solicitations will be competitive and may be similar to SDCP’s initial long-term RPS solicitation, which was previously described in this RPS Procurement Plan.</p> <p>SDCP will administer future solicitations, as necessary, to promote consistency with the resource development plan identified in the IRP (for purposes of promoting achievement with state-mandated RPS targets as well as SDCP’s internal targets). As noted above, SDCP anticipates administering upcoming solicitation activities consistent with the process and timeline described in Section I.</p> <p>During administration of future procurement processes, SDCP will utilize the evaluative and contract management processes (further described above in Section X and elsewhere in this Plan) to promote timely project completion and improve planning certainty.</p>
<b>IV. Action Plan C. Potential Barriers</b>	<p>Retail sellers should provide a summary of the barriers that will be identified in their Preferred Portfolio as they relate to RPS resources. The section should include:</p>	
	<p><i>1. Key market, regulatory, financial, or other resource viability barriers or risks associated with the RPS resources coming online in retail sellers’ Preferred Portfolios.</i></p> <p><i>2. Key risks associated with the</i></p>	<p>SDCP does not expect any procurement barriers to impede its future contracting for new renewable energy resources, but notes that even though a balanced, diverse RPS portfolio is desirable, the limited resource availability and lead time required for some technology types may necessitate planning flexibility. SDCP also observes that the rigorous demands of California’s RPS program, particularly the currently effective 65 percent long-term contracting mandate, may necessitate contracting</p>

	<p><i>potential retirement of existing RPS resources on which the retail seller intends to rely in the future.</i></p>	<p>activities with a portfolio of resources that will evolve considerably over time – more specifically, SDCP may need to pursue initial supply commitments with a portfolio of resources that does not exactly reflect its eventual/ideal characteristics related resource diversity and/or reliability. Pursuit of such portfolio characteristics will continue to be a work in progress during SDCP’s first several procurement efforts and will evolve throughout the upcoming 10-year planning period.</p> <p>The key risk affecting SDCP’s achievement of the 46 MMT and 38 MMT Preferred Conforming IRP Portfolios in the 2020 IRP Plan and the 30 MMT and 25 MMT portfolios in the 2022 IRP Plan is reliance on new resources – while SDCP intends to contract with highly experienced and qualified project developers (when new-build resources are deemed necessary), there is always a limited risk of project failure.</p> <p>In consideration of SDCP’s existing RPS contract negotiation processes that will support achievement of parameters of the Preferred Conforming IRP Portfolios, it does not have any substantive concerns regarding its ability to fulfill and achieve levels of renewable energy procurement that will be required to satisfy pertinent RPS mandates or IRP targets. If such concerns happen to change in the future, SDCP will accordingly notify the Commission in a subsequent iteration of this planning process.</p>
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**XVI. Impact of Transmission and Interconnection Delays**

SB 1174 (stats. 2022, ch. 229) requires electrical corporations that own transmission lines to report to the Commission on the development of transmission and interconnection facilities necessary to provide transmission deliverability for renewable energy and/or energy storage facilities that have executed interconnection agreements. SDCP is not subject to the requirements of SB 1174 and does not own any transmission lines. Accordingly, SDCP has not

included a Transmission/Interconnection Delay Data Report as an attachment to this RPS Procurement Plan.

Dated: July 17, 2023

Respectfully submitted,

/s/ Karin Burns

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# **Appendix A**

**Redlined Version of Draft 2023 RPS Plan**

**(Public Version)**

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Continue  
Implementation and Administration, and  
Consider Further Development, of California  
Renewables Portfolio Standard Program

Rulemaking 18-07-003  
(Filed July 12, 2018)

**DRAFT 2023~~FINAL 2022~~ RENEWABLES PORTFOLIO STANDARD  
PROCUREMENT PLAN OF SAN DIEGO COMMUNITY POWER**

**PUBLIC VERSION**

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Dated: July 17, 2023~~January 18, 2023~~

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Continue  
Implementation and Administration, and  
Consider Further Development, of California  
Renewables Portfolio Standard Program

Rulemaking 18-07-003  
(Filed July 12, 2018)

**DRAFT 2023~~FINAL 2022~~ RENEWABLES PORTFOLIO STANDARD  
PROCUREMENT PLAN OF SAN DIEGO COMMUNITY POWER**

**PUBLIC VERSION**

In accordance with the California Public Utilities Commission’s (“Commission”) [May 5, 2023](#)~~March 30, 2021~~ *Assigned Commissioner and Assigned Administrative Law Judges’ Ruling Identifying Issues and Schedule of Review for [2023](#)~~2022~~ Renewables Portfolio Standard Procurement Plans ~~and Denying Joint IOUs’ Motion to File Advice Letters for Market Offer Process (“ACR”) and the Decision on 2022 RPS Procurement Plans (“D.22-12-030”)~~*, San Diego Community Power (“SDCP”) hereby submits its [Draft 2023](#)~~Final 2022~~ Renewables Portfolio Standard Procurement Plan (“RPS Procurement Plan”). This RPS Procurement Plan includes responses to the issues listed in sections 6.1-6.16 of the ACR.

SDCP notes that certain issues and requests in these ACR sections apply to other retail sellers (electrical corporations and electric service providers) and do not extend to Community Choice Aggregators (“CCAs”). SDCP is nevertheless voluntarily responding to these ACR sections in the interest of transparency and to collaborate with the Commission. The submission of this RPS Procurement Plan pursuant to the ACR, however, should not be construed as a waiver of the right to assert that components of Senate Bill (“SB”) 350, or Commission decisions and rulings on RPS Procurement Plan submittals, do not extend to CCAs, and SDCP reserves the right to challenge any such assertion of jurisdiction over these matters.

In reviewing this RPS Procurement Plan, SDCP encourages the Commission to consider the considerable differences between California’s investor-owned utilities (“IOUs”) and other retail sellers, including CCAs – differing levels of detail, procedure, complexity, and coordination are appropriate within the planning documents submitted by small, medium, and large organizations; and where the Commission may be inclined to identify informational deficiencies in certain areas (based on inevitable differences between content provided in the RPS Procurement Plans of California’s IOUs and CCA programs), SDCP encourages the Commission to consider whether it is appropriate to utilize a “one size fits most/all” approach in managing widely varying RPS planning and procurement obligations. ~~The Commission is also encouraged to consider the differing operational stages of reporting load-serving entities (“LSEs”). Certain direction and guidance provided in Decision (“D.”) 21-01-005 seems to suggest that each element of the RPS planning process should be universally applicable across all LSEs, regardless of pertinent operational status, and that is not the case. For example, it is likely inappropriate and relatively unhelpful for a newer CCA organization, like SDCP, to prepare a ten-year negative price forecast or curtailment analysis when such information would not necessarily be instructive when administering SDCP’s existing RPS contracts—given the heightened attention and related information focused on changing market conditions, increased incidents of negative pricing and related energy curtailment, all LSEs are aware, to some extent, of these potential risk factors, but that does not mean that a related forecasting effort or other form of analysis would provide useful information to each LSE. For example, a generalized ten-year negative price forecast or curtailment analysis would have no meaning for a new LSE without existing contractual commitments or if its contractual commitments did not expose the buyer to negative price risk (due to the application of settlement mechanisms and/or fixed-~~

~~volumetric commitments that eliminate such concerns). Similarly, it would not make sense for an LSE to prepare forward curtailment estimates if its renewable contract portfolio did not include contracts reflecting such exposure. Again, SDCP encourages the Commission to consider the appropriateness of universally requiring certain information within this planning process when such information may not be relevant or useful to the reporting entity—certain sections of these plans should be marked as “if necessary” or “if applicable” without the assumption that all LSEs should be comprehensively responsive in addressing such topics.~~

While there may be some commonalities among planning and procurement practices reflected in the various RPS Procurement Plans submitted through this process, it is reasonable to assume that noteworthy differences may be prevalent, particularly when considering plans submitted by the IOUs and other retail sellers.

SDCP would also like to note that certain required elements of the RPS procurement planning process will evolve over time, particularly the organization’s approach to assessing risk and establishing RPS planning reserves (namely, any minimum margin of over-procurement that may be established by SDCP’s governing board). ~~SDCP is a relatively new CCA organization that commenced retail electric service to participating customers in March 2021, and as facts and circumstances evolve and experience is gained over time, it will progressively elaborate on various topics in future RPS planning filings.~~ For example, this [The 2023 Final 2022](#) RPS Procurement Plan ~~now~~ includes ~~additional~~ information regarding SDCP’s ~~recently~~ implemented risk assessment process, including a description of its assessment methodology and a summary of related results. Such detail can be found in Section VII (below).

With regard to understanding the consequences of compliance shortfalls, SDCP is appreciative of both direct (*e.g.*, financial penalties and findings of non-compliance) and indirect impacts (*e.g.*, reputational damage that might accrue to participating communities or CCA organizations, generally) associated with such deficiencies and has chosen to pursue risk mitigation measures that are considerate of SDCP's aversion to such risks, as well as the related administrative complexity, cost and rigor that were deemed appropriate to achieve the desired level of mitigation, ~~particularly during early stage program operation. When undertaking CCA phase in activities and early stage planning efforts focused on renewable energy procurement, the completion of elaborate risk analyses and costly studies was not deemed necessary or desirable by SDCP, but~~ As SDCP's resource planning activities have evolved, it has become increasingly important to evaluate prospective RPS delivery uncertainty and compliance risk in a more deliberate and detailed manner. With this in mind, SDCP has developed a risk assessment methodology of its own, as further described below, that quantifies the risk of RPS-related delivery shortfalls to inform the sufficiency of its adopted minimum margin of procurement.

As noted in previous planning documents, SDCP remains attentive to evolving market pricing conditions and will continue to evaluate historical pricing within geographic areas where renewable energy procurement opportunities are being considered, so long as the settlement structures associated with such procurement opportunities expose SDCP to market-based pricing risk. For now, SDCP has elected to pursue risk mitigation measures that are focused on: 1) the identification of highly qualified renewable energy suppliers – based on SDCP's recently completed risk assessment and the assignment of risk ratings/scores related to key risk factors, the identification of highly experienced/well qualified RPS suppliers remains the most important consideration in ensuring that contracted RPS deliveries are fulfilled according to plan; 2)

substantial levels of over-procurement created by SDCP’s initial renewable energy procurement target that commences at 50 percent and increases over time [to 100% by 2035](#); and 3) the pursuit of contract structures that minimize the risk of delivery shortfalls by providing SDCP with fixed delivery quantities and/or financial protections that generally offset the impacts of financial penalties (prescribed under the RPS Program) in the event of non- or under-delivery.

### I. Major Changes to RPS Plan

This Section describes the most significant changes between SDCP’s Final ~~2022~~2021 RPS Procurement Plan and its [Draft 2023](#)~~Final 2022~~ RPS Procurement Plan. A redline of this [Draft 2023](#)~~Final 2022~~ RPS Procurement Plan against SDCP’s [Final](#)~~Updated Draft~~ 2022 RPS Procurement Plan is included as Appendix A. The table below provides a list of key differences between SDCP’s ~~2022~~Final-2021 RPS Procurement Plan and this [Draft 2023](#)~~Final 2022~~ RPS Procurement Plan:

Plan Reference	Plan Section	Summary/Justification of Change
<a href="#">2023</a> <del>Final 2022</del> RPS Procurement Plan: Introduction	Introduction	Updated to reference pertinent sections of the <del>2023</del> 2022 ACR that SDCP must address.
<a href="#">2023</a> <del>Final 2022</del> RPS Procurement Plan: Section II	Executive Summary	Updated to reflect the changes made throughout other sections of this RPS Plan; <a href="#">updated to include SDCP’s approval as a program administrator of DAC-GT and CSGT in 2023.</a> ; <del>updated to indicate SDCP’s recent Member Agency expansion launch in February 2022.</del>
<del>Final 2022 RPS Procurement Plan: Section III</del>	<del>Summary of Legislation Compliance</del>	<del>Updated to reflect changes in Section requirements.</del>

Plan Reference	Plan Section	Summary/Justification of Change
<del>Final 2022 RPS Procurement Plan: Section IV</del>	<del>Portfolio Optimization</del>	<del>Updated to include discussion regarding SDCP's recent resource planning progress; updated to acknowledge the May 20, 2021 adoption of Decision 21-05-030, which implements the Voluntary Allocation Market Offer proposal/framework, and RPS planning implications.</del>
<del>Final 2022 RPS Procurement Plan: Section IV.B</del>	<del>Responsiveness to Local and Regional Policies</del>	<del>Updated to describe impacts of local and regional policies on procurement targets, bid solicitation protocols, and forecasted supply.</del>
<a href="#">2023</a> <del>Final 2022</del> RPS Procurement Plan: Section IV.B.1	Long-Term Procurement	Updated with relevant supporting information on how SDCP's ongoing procurement efforts are expected to meet the requirements of SB 350's long-term contracting for Compliance Period 4 (2021-2024) and beyond, including references to the impacts of SDCP's long-term VAMO elections on its RPS compliance obligations.
<a href="#">2023</a> <del>Final 2022</del> RPS Procurement Plan: Section V	Project Development Status Update	Updated Appendix D to reflect the current status of SDCP's new-build renewable generating projects.
<del>Final 2022 RPS Procurement Plan: Section VII</del>	<del>Risk Assessment</del>	<del>Added narrative addressing SDCP's recently completed risk assessment, including a summary of results related to such analysis.</del>
<a href="#">2023</a> <del>Final 2022</del> RPS Procurement Plan: Section VIII	Renewable Net Short Calculation	Updated Appendix C to reflect recent ongoing procurement efforts and prescribed changes to the planning period, which now extends through <a href="#">2033</a> <del>2032</del> .
<a href="#">2023</a> <del>Final 2022</del> RPS Procurement Plan: Section XIV	Cost Quantification	Updated Appendix E to reflect ongoing procurement efforts and prescribed changes to the planning period, which now extends through <a href="#">2033</a> <del>2032</del> .



SDCP timely commenced CCA service in March 2021 – such timing was consistent with information reflected in SDCP’s Community Choice Aggregation Plan and Statement of Intent (“CCA Implementation Plan”), which was electronically served on all parties of record in proceedings R.17-09-020, R.16-02-007, and R.03-10-003 on December 9, 2019 and subsequently certified by the Commission on March 9, 2020. Based on current load and customer forecasts, which now include assumptions related to ~~upcoming~~ expansion activities in 2023, SDCP plans to serve approximately 930,000 service accounts located within the cities of Chula Vista, Encinitas, Imperial Beach, La Mesa, National City and San Diego as well as the unincorporated areas of San Diego County (together, the “Member Agencies”), which are expected to consume approximately 8,400 GWh per year following completion of all customer phase-in activities in 2023. ~~In 2022, and until upcoming (2023) expansion activities are complete, SDCP’s anticipates serving about 730,000 customer accounts that are expected to consume about 5,300 GWh, as reflected in Appendix C.~~

## **II. Executive Summary**

San Diego Community Power is a CCA program that commenced retail electric service in March 2021 to certain customers located within the cities of San Diego, Encinitas, La Mesa, Chula Vista, and Imperial Beach. SDCP was formed when these five Member Agencies created a Joint Powers Authority, effective October 1, 2019.<sup>1</sup> SDCP submitted its CCA Implementation Plan, which was certified by the Commission on March 9, 2020, to address the anticipated consequences of CCA formation.<sup>2</sup> Since it commenced service in March 2021, SDCP

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<sup>1</sup> See *Joint Powers Agreement*, San Diego Regional Community Choice Energy Authority, October 1, 2019, available at [https://www.sandiego.gov/sites/default/files/sdrceea\\_jpa\\_agreement\\_signed\\_0.pdf](https://www.sandiego.gov/sites/default/files/sdrceea_jpa_agreement_signed_0.pdf).

<sup>2</sup> See *Letter Certifying San Diego Community Power’s Implementation Plan and Statement of Intent*, California Public Utilities Commission, March 9, 2020.

successfully completed planned phase-in activities, which have increased the number of customer accounts as well as related retail electric energy requirements. As reflected in Appendix C, actual retail electricity sales in 2021 approximated 2,000 GWh and increased by approximately 182% to 5,700,000 GWh ~~(with customer account totals approximating 70,000 as of December 31, 2021)~~. By the end of 2023~~2~~, SDCP plans to serve approximately 930,000 customer accounts. ~~annual retail sales are expected to increase by approximately 159% to 5,300 GWh with service provided to more than 730,000 customer accounts~~

In November 2021, SDCP's Governing Board approved submittal of Addendum No. 1 to the Community Choice Aggregation Implementation Plan and Statement of Intent to Address Expansion to the City of National City and the unincorporated areas of San Diego County ("Addendum No. 1"); Addendum No. 1 was subsequently submitted to the Commission on December 22, 2021 and was also served to parties of record in proceedings R. 03-10-003, R.20-05-003, R.19-11-009, and R.21-10-002 on that day. Addendum No. 1 was later certified by the CPUC's Energy Division on February 28, 2022. As the document's title suggests, Addendum No. 1 ~~addresses~~ addressed the ~~prospective~~ expansion of SDCP's service territory to include the noted municipalities with related customer service ~~expected to commence~~ that commenced in April 2023. ~~Now that SDCP is in receipt of Energy Division's certification of Addendum No. 1,~~ ~~the~~ The anticipated increases in retail sales and related RPS purchases and procurement obligations associated with this ~~upcoming~~ expansion are ~~being considered~~ reflected in SDCP's RPS planning and procurement processes, as well as ~~and are also reflected~~ in Appendix C of this Plan. ~~SDCP is aware of the increased RPS procurement obligation associated with future increases to its retail electricity sales and, as such, has already engaged in certain RPS planning and procurement activities to proactively address these future needs, including upcoming impacts~~

~~to long-term contracting requirements.~~

At launch, SDCP’s governing board approved a minimum 50 percent renewable energy supply portfolio for all participating customers with a 100 percent renewable retail service option available on a voluntary basis. These retail service offerings have been named “PowerOn” and “Power100,” respectively. The minimum quantity of renewable energy delivered to SDCP customers is expected to increase over time, moving to 85 percent by 2030, [and 100% by 2035](#), as reflected elsewhere in this document and its appendices. During its renewable energy procurement efforts, SDCP has focused exclusively on Portfolio Content Category (“PCC”) 1 and 2 product types (with a strong preference for PCC1 products).<sup>3</sup> This considerable commitment to renewable energy procurement ~~during early-stage CCA operations~~ is expected to result in meaningful planning reserves, which will provide compliance buffers in the event that contracted renewable energy purchases are not fulfilled as expected – this topic is further discussed in relation to SDCP’s adopted voluntary margin of over-procurement (“VMoP”). To address RPS compliance risk, SDCP uses its risk assessment, including its renewable net short calculations, to establish a Minimum Margin of Procurement (“MMoP”) to guide RPS compliance procurement planning. SDCP calculated its MMoP using a 10% risk adjustment that was applied to SDCP’s minimum internally adopted RPS procurement targets (set at 50% upon program launch in 2021, increasing to 85% by 2030, [and 100% by 2035](#)). SDCP’s internally adopted renewable energy procurement goals provide a meaningful buffer above the state’s RPS requirements and serve as VMoP, which will exceed statewide RPS mandates by at least 15 percent in each year of the planning period, which now extends through

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<sup>3</sup> See *San Diego Community Power Community Choice Aggregation Implementation Plan and Statement of Intent*, December 9, 2019, available at <http://sdcommunitypower.org/resources/key-documents/>.

~~2033~~2032. Considered in concert, SDCP's VMoP and MMoP provide a substantial aggregate renewable energy planning buffer, virtually eliminating the possibility of compliance shortfalls during continued SDCP operation.

SDCP also acknowledges that its renewable energy targets and related planning reserves could be periodically evaluated and adjusted by its governing board – such a determination could be based on the manner in which actual renewable energy purchases/deliveries relate to applicable mandates and internally adopted targets, project development progress for new-build renewable generating facilities, generalized renewable product availability, the extent to which prospective RPS deliveries under the [Voluntary Auction – Market Offer \(“VAMO”\)](#) process conform with related projections, load variability that may occur during customer enrollment periods, budgetary impacts, and/or various other considerations.

Reducing electric utility sector greenhouse gas (“GHG”) emissions generated by residents and businesses within SDCP's Member Agencies was a driving factor in the formation of SDCP. Climate Action Plans (“CAP”) adopted by SDCP's Member Agencies establish a variety of GHG reduction and clean energy goals within their respective jurisdictions as detailed in Section IV.B.ii (below). The Member Agencies intend to contribute to achieving their CAP goals collaboratively by operating SDCP to provide electric energy to residential, commercial and governmental electric accounts located within their communities.

~~SDCP's initial long-term RPS solicitation was issued on June 29, 2020 and was very successful in recruiting interest from qualified suppliers of such products. Since that time,~~ SDCP's negotiation efforts have resulted in the execution of ~~seven~~four unique long-term PCC1 supply agreements [thus far](#), which include: 1) a long-term (20-year) PCC1 supply agreement with Vikings Energy Farm, LLC, executed on May 3, 2021, which will cause the delivery of

approximately 250,000 MWh per year of renewable energy produced by a new ~~13200~~ megawatt photovoltaic solar array (plus battery storage) located in Imperial County that is expected to commence commercial operation in ~~June 2023~~ [September 2024](#); 2) a long-term (20-year) PCC1 supply agreement with JVR Energy Park, LLC, executed on June 4, 2021, which will cause the delivery of approximately 260,000 MWh per year of renewable energy produced by a new 90 megawatt photovoltaic solar array (plus battery storage) located in San Diego County that is expected to commence commercial operation in ~~March 2023~~ [October 2026](#); 3) a long-term (15-year) PCC1 supply agreement with IP Oberon, LLC, executed on June 11, 2021, which will cause the delivery of approximately 225,000 MWh per year of renewable energy produced by a new 75 megawatt photovoltaic solar array located in Riverside County that is expected to commence commercial operation in ~~late 2023 or early 2024~~ [July 2023](#); and 4) a long-term (10-year) PCC1 supply agreement with Duran Mesa LLC, executed January 27, 2022, which will cause the delivery of approximately 170,000 MWh per year of renewable energy produced by 50 MW of new wind capacity located in Tarrant County, New Mexico that ~~recently~~ achieved commercial operation (on November 30, 2021, as reflected in the California Energy Commission's associated certificate for this project) and began delivering power to SDCP on February 1, 2022; 5) [Burney a long-term \(5-year\) PCC1 supply agreement with Pacific Gas and Electric Company, executed on September 30, 2022, for an existing 29 megawatt biomass renewable generation facility located in Burney, CA that is on-line](#); 6) [a long-term \(20-year\) PCC1 supply agreement with Orni 30 LLC, executed on June 29, 2023, for a new 42 megawatt photovoltaic solar array \(plus 35 MW battery storage\) located in Imperial County that is expected to commence commercial operation in April 2025](#); and 7) [a long-term \(20-year\) PCC1 supply agreement with Yellow Pine Solar III, LLC, executed on July 3, 2023, for a new 35](#)

megawatt photovoltaic solar array (plus 35 MW battery storage) located in Clark County, Nevada that is expected to commence commercial operation in October 2025.

SDCP has issued long-term RPS solicitations in of the fourth quarter of 2022 and the first quarter of 2023 resulting in substantial interest from qualified suppliers of renewable products, as well as stand-alone storage. These efforts are in addition to bilateral negotiations, focusing on local procurement in San Diego and Imperial Counties, or expressly, renewable developments and their proximity to our member communities.

~~Concurrent with its negotiation of the above four long-term power purchase agreements,~~ SDCP also completed bilateral negotiations of a long-term contract for bundled renewable energy supply from San Diego Gas & Electric (“SDG&E”), the incumbent IOU, and its portfolio of long-term renewable energy contracts. The unique structure of this contract is intended to serve as a vehicle via which SDCP can purchase from SDG&E its elected allocation of bundled, long-term renewable energy; that is, the contract sets a baseline annual volume of bundled, renewable deliveries between 2022 and 2033, which has been adjusted to reflect SDCP’s allocation volume as determined through the VAMO mechanism. SDG&E filed the resulting contract for Commission approval in SDG&E AL 3936-E, which was subsequently received on May 19, 2022. ~~Initial deliveries will occur, as expected, in July 2022;~~ ~~t~~This agreement will meaningfully increase SDCP’s long-term PCC1 position in Compliance Period 4 (“CP4”, 2021-2024) and beyond. In addition, SDCP participated in the Long-term and Short-term Market Offer (MO) process of the three IOUs in 2023. SDCP was awarded a Long-term and a Short-term allocation of the remaining Long-term Portfolios of both SDG&E and PG&E, deliveries pending CPUC Tier 1 and Tier 3 approval respectively. SDCP anticipates these deliveries to begin in 2023.

To encourage local development of renewable energy and carbon-free free energy storage projects and to inform upcoming solicitations by better understanding current opportunities for contracting such facilities, SDCP issued a Request for Information for Local Renewable Energy and Energy Storage (“Local RFI”) in August 2021. [The RFI was updated in early 2023 to extend the eligibility of commercial operation dates. The Local RFI is a rolling RFI accepting applications for review year-round.](#) ~~Subsequently,~~ SDCP is [evaluating proposals and](#) negotiating power purchase agreements with ~~two~~ [multiple](#) prospective long-term PCC1 suppliers. Because such contracting opportunities remain under negotiation and are confidential, SDCP is unable to further elaborate until these contracts have been finalized, approved and executed.

[To further encourage local development, SDCP is also implementing solicitations for the Disadvantaged Communities - Green Tariff \(“DAC-GT”\) and Community Solar Green Tariff \(“CSGT”\).](#) On September 29, 2021, SDCP filed its Tier 2 Advice Letter (“AL”) with the Commission requesting a capacity transfer from SDG&E under the DAC-GT and CSGT based on the disadvantaged communities located within founding member agencies of SDCP. The Commission accepted and approved SDCP’s capacity transfer request on October 29, 2021. [SDCP submitted its implementation advice letter on October 12, 2022, seeking approval of the proposed programs and obtaining the status of a program administrator \(“PA”\).](#) As part of the implementation advice letter, SDCP sought additional capacity transfer from disadvantaged communities located in National City, a new member city that was added to SDCP’s joint powers authority (“JPA”) after SDCP submitted AL 4-E.

[On March 16, 2023, the California Public Utilities Commission \(“CPUC”\) voted to adopt Resolution E-5246 on SDCP's DAC-GT and CSGT Implementation AL.](#) As noted in the regulatory and legislative staff report for the February 2023 meeting of the Board of Directors

Resolution approves SDCP’s Tier 3 Implementation Advice Letter to become a PA of the DAC-GT and CSGT programs and the additional allocation of 15.78 MW for DAC-GT and 4.38 MW, adjusted for National City. SDCP did not include the General Cost Delta or 20% Bill Discount in the Program Year (“PY”) 2023 to 2024 Budget Forecast due to a lack of eligible interim resources. As a result, SDCP will auto-enroll customers when new projects come online in 2025.

On May 19, 2023, SDCP submitted a Tier 2 AL 13-E, seeking CPUC approval for SDCP’s DAC-GT and CSGT solicitation materials. The DAC-GT and CSGT solicitation documents include the Request for Offer (RFO) Protocol, Term Sheet, and Generation Offer Form. The Commission approved the material in June 2023 and SDCP will release the DAC-GT and CSGT solicitation documents in August 2023.

SDCP expects to administer other solicitations for short- and long-term renewable energy supply, as well as other procurement activities, that will be necessary to meet its adopted portfolio objectives. Completed and upcoming renewable energy planning and procurement activities administered by SDCP include the following:

- 1) COMPLETE – approval of SDCP’s Feed-In Tariff Program (“FIT”) was received and this program is now active. SDCP’s FIT program is expected to support locally-situated, small-scale RPS-eligible renewable energy projects, which will marginally increase long-term PCC1 supply while supporting local economic development activity and workforce utilization. Additional detail regarding SDCP’s FIT program is available via the following link:

<https://sdcommunitypower.org/programs/feed-in-tariff/>;

- ~~2) COMPLETE – SDCP completed negotiations of long-term PCC1 supply agreements with SDG&E (contract execution on December 20, 2021) and Duran~~



~~Mesa, LLC (contract execution on January 27, 2022) in late 2021 and 2022, respectively. Deliveries under the Duran Mesa agreement commenced in February 2022. Deliveries from SDG&E are expected to occur in 2022 as well.;~~

- ~~3) COMPLETE – SDCP participated in VAMO implementation and elected to receive 100 percent of its long-term Voluntary Allocation share from SDG&E. SDCP notified SDG&E of its Voluntary Allocation election agreement on July 29, 2022. Deliveries from SDG&E are expected to begin on January 1, 2023;~~
- 2) COMPLETE – SDCP participated in the joint IOU Market-Offer process and was awarded short-term and long-term portions of SDG&E and PG&E’s Long-term Portfolio.
- 3) COMPLETE - SDCP released a targeted solicitation for long-term, new-build supply from “clean firm” renewable energy sources in Q2 2022, which SDCP staff expect to be fueled by geothermal or bioenergy renewable energy, to be online by 2026 to meet the relevant requirements within the CPUC’s Mid-Term Reliability (“MTR”) procurement order. The MTR order has now extended this target to 2028. SDCP is negotiating one PPA from the 2022 clean firm RFO and expects to launch another RFO for such resources in the coming years.
- 4) COMPLETE – SDCP released a 2022 RFP for Long-term California RPS-Eligible Energy in October 2022, for deliveries commencing prior to December 31, 2026. One PPA has been executed to date from this RPF. Further PPA negotiations and subsequent executions are on target within Q3 2023.
- ~~—COMPLETE – SDCP released a 2023 Request for Proposals for Long-term California RPS-Eligible Renewable Energy in January 2023, for deliveries~~

commencing prior to December 31, 2028. SDCP is in active negotiations with short-listed developers. PPA executions are expected within the 2023 calendar year.

5) May 2023 – SDCP issued a 2023 Request for Offers for Standalone Storage - criteria being that storage assets will commence delivery prior to December 31, 2028. SDCP will begin short-list notifications in Q2 2023.

6) Ongoing – SDCP issued a 2021 Request for Information for Local Renewable Energy and Energy Storage. The RFI was updated in early 2023 to extend the eligibility of commercial operation dates. The Local RFI is a rolling RFI accepting applications for review year-round. Being an ongoing solicitation, and receiving interest from numerous developers, SDCP is actively evaluating and negotiating these projects.

~~4)7) Ongoing - Q2 2022 – SDCP has administered short-term RPS solicitations to fill known open positions related to RPS products. Contracts have been executed with short-listed suppliers and expected deliveries are now reflected in Appendix C of this Plan. SDCP will continue to administer solicitations for such products, as necessary, and will update future planning documents to the extent such solicitations result in additional procurements;~~

~~5) Q2 2022 – SDCP released a targeted solicitation for long-term, new-build supply from “clean firm” renewable energy sources, which SDCP staff expect to be fueled by geothermal or bioenergy renewable energy, to be online by 2026 to meet the relevant requirements within the CPUC’s Mid-Term Reliability (“MTR”) procurement order. These offers are due on July 6, 2022, upon which~~

~~time SDCP will review conforming offers and enter negotiations with those that its executive team and Energy Contract Working Group determine to be compelling.~~

8) Ongoing - Q3 2022—In Q2 2023 SDCP ~~expects to~~ released a targeted solicitation for stand-alone storage (“SAS”) projects including long-term, new-build “long duration storage” capacity to be online by 2026/2028 to meet the relevant requirements within the CPUC’s Mid-Term Reliability (“MTR”) procurement order. ~~Upon receipt of offers as delineated in the forthcoming solicitation materials,~~ SDCP recently short-listed projects and will be engaging in contract negotiations in 2023. ~~will review conforming offers and enter negotiations with those that its executive team and Energy Contract Working Group determine to be compelling.~~

9) Planned - SDCP expects to administer a DAC-GT & CSGT solicitation in Q3 2023.

6)10) Planned – SDCP expects to administer additional RPS and SAS RFO in 2024 and 2025.

~~7) Late Q3 2022/Q4 2022—expected release of SDCP’s second long-term renewable energy solicitation for all renewable resources. SDCP is evaluating the scope of this solicitation and will finalize its plans to reflect recent VAMO allocation elections. SDCP had delayed the release of this solicitation (which was originally scheduled for late Q2 2022), as acceptance of significant VAMO allocations has meaningfully reduced open positions for long-term RPS products in Compliance Period 4.~~

- ~~8) Q4 2022—expected receipt of offers related to second long term renewable energy solicitation, if released in Q3 2022;—~~
- ~~9) Q4 2022/Q1 2023—evaluation of RFP responses and selection of short listed respondents, if released in Q3 2022;—~~
- ~~10) Q1 2023—commencement of contract negotiations with short listed respondents (to SDCP’s second long term RPS solicitation), if the long term solicitation is released in Q3 2022;—~~
- ~~11) Q1 2023—finalization of long term RPS contract negotiations, contract approval and execution, if the long term solicitation is released in Q3 2022; and—~~
- ~~12) CY 2024 and 2025—commencement of initial deliveries under executed long term renewable supply contract(s) resulting from SDCP’s second long term RPS solicitation, if released in Q3 2022.—~~

SDCP is also aware that renewable energy procurement activities must be timely completed to ensure the achievement of noted renewable energy targets, so it intends to continue coordinating such activities with ~~upcoming~~ customer phase-in ~~and expansion~~ activities, as noted above. These procurement efforts will be focused on securing necessary short-term and long-term renewable energy supply, the latter of which will be intended to facilitate compliance with California’s 65 percent long-term contracting requirement, which became effective in 2021. SDCP acknowledges that certain long-term renewable contracting opportunities may require substantial lead time, particularly opportunities related to new-build renewable generating facilities. SDCP is aware that there may be lingering impacts of the pandemic on new-build renewable generating projects which may be heavily reliant on international supply chains to ensure timely completion. There are challenges in determining the extent to which such effects

will be experienced by SDCP and other buyers, but SDCP hopes to learn more by monitoring development progress of new renewable generating facilities that have been recently placed under contract. With time, SDCP remains optimistic that it will be able to facilitate a meaningful level of new renewable infrastructure buildout through its ongoing renewable energy contracting efforts and expects to confirm such expectations as it moves forward.

During administration of its ongoing renewable energy solicitation activities, SDCP will gauge prospective supplier interest and potential concerns associated with new CCA programs and long-term supply commitments – the long-term contracting requirement and its lack of an “on ramp” for new retail sellers is expected to necessitate the execution of several long-term renewable energy supply commitments with product delivery to begin shortly after CCA service commencement. SDCP’s long-term bundled transactions with Duran Mesa Wind and SDG&E are two necessary steps to secure such supply commitments as part of its resource planning and RPS compliance activities. ~~While this immediate requirement for renewable generation to be delivered under long term contracts is not ideal for resource planning from the perspective of a recently established CCA,~~ SDCP is aware of potential repercussions associated with RPS compliance shortfalls and, with such concerns in mind, is committed to pursuing RPS contracting opportunities that will satisfy pertinent mandates, plus sufficient planning reserves.

As part of its ongoing planning process, SDCP is also considering the manner in which renewable energy compliance risks will be assessed and mitigated. One key element of this process included the adoption of a formal Energy Risk Management Policy (“ERM Policy”)<sup>4</sup>, which occurred at the regularly scheduled meeting of SDCP’s governing board on June 25, 2020. The ERM Policy addresses various types of risk and establishes related oversight in managing

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<sup>4</sup> See [San Diego Community Power Energy Risk Management Policy](#), June 25, 2020.

SDCP's various portfolio positions, control procedures and delegations of authority (related to the procurement of various energy and capacity products). SDCP's ERM Policy also necessitates formation of a Risk Oversight Committee ("ROC"), which meets on a regular basis to monitor SDCP's procurement efforts, open positions, counterparty credit exposure and other concerns. Staff provides SDCP's ROC with various deal tracking and position reports to keep program management apprised of ongoing progress in meeting statewide compliance mandates and SDCP's internally adopted renewable planning targets, which exceed statewide mandates. The ROC also receives updates regarding the development progress of new-build renewable generating facilities that are expected to contribute to SDCP's RPS compliance mandates. In addition to the noted ERM Policy and ROC, SDCP's Managing Director of Power Services oversees the day-to-day management of resource planning, power supply acquisition, and related compliance activities and ensures ongoing coordination with SDCP's suppliers.

Initial discussion among SDCP's executive leadership, power services staff, technical advisors, and Finance and Risk Management Committee (another SDCP committee intended to monitor program finances and risk) suggests that managing early-stage compliance risk is dependent upon the identification and selection of highly experienced and financially viable sellers during the administration of renewable energy solicitation processes. This understanding is supported by conversations with leadership of longer-standing California CCAs, which emphasized the importance of such an approach during ~~early-stage~~ renewable energy procurement efforts; such CCAs noted that the timing of early-stage RPS planning and procurement efforts (and the proximity of such efforts relative to imposition of the 65% long-term contracting mandate) necessitated considerable reliance on: 1) existing renewable generating facilities; and/or 2) highly experienced project developers with strong track records of

timely project completion. At this time, SDCP's contracting efforts have reduced, if not eliminated, any compliance shortfall risk. The remaining ~~the fundamental~~ RPS-related risk to SDCP is only related to additional voluntary RPS procurement targets. ~~is insufficiency of its existing contractual commitments, but considering its recently executed long term contracts and allocation elections via VAMO,~~ SDCP remains confident that current renewable energy open positions, again only related to the voluntary procurement targets, will be significantly reduced in the near future. Given SDCP's gross RPS procurement needs and existing procurement efforts, a quantitative risk assessment was recently completed by SDCP. The results of such assessment are presented below, including a description of the methodology used to complete it. As SDCP continues to update its risk assessment based on future contracting efforts and its impressions of various sources of RPS delivery risk, it will elaborate on its findings in ~~a~~ future RPS Procurement Plans.

SDCP will carefully monitor the performance of selected renewable energy suppliers relative to projected RPS requirements and will augment procurement efforts in the event that actual renewable deliveries fall below projections. Based on SDCP's minimum 50 percent renewable procurement target, the organization could suffer significant delivery shortfalls while still satisfying statewide compliance mandates.

### **III. Summary of Legislative Compliance**

This RPS Procurement Plan addresses the requirements of all relevant legislation and the Commission's regulatory framework. This Section describes the relevant statutory and regulatory requirements and how this RPS Procurement Plan demonstrates that SDCP will meet such requirements.

Senate Bill ("SB") 350 (stats. 2015) was signed by the Governor on October 7, 2015. SB

350 set a new RPS procurement target of 50 percent by December 31, 2030. On December 20, 2016, the Commission issued D.16-12-040, which partially implemented the increased targets of SB 350 by establishing new compliance periods and procurement quantity requirements. On July 5, 2017, the Commission issued D.17-06-026, which implemented some of the key remaining elements of SB 350, including adopting new minimum procurement requirements for long-term contracts and owned resources, as well as revising the excess procurement rules.

SB 100 was signed by the Governor on September 10, 2018, and became effective on January 1, 2019. SB 100 increased the RPS procurement requirements to 44 percent by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. On June 6, 2018, the Commission issued D.18-05-026, which implemented changes made by SB 350 to the RPS waiver process and reaffirmed the existing RPS penalty scheme. In July of 2018, the Commission instituted Rulemaking 18-07-003 to continue the implementation of the RPS program. On June 28, 2019, the Commission issued D.19-06-023, which continues to use a straight-line method to calculate compliance period procurement quantity requirements.

The current RPS procurement targets are ~~incorporated~~[incorporated](#) into SDCP's Renewable Net Short Calculation Table as described in Section VIII below and attached as Appendix C. SDCP's planned procurement, as reflected in SDCP's Renewable Net Short Calculation Table and described in Sections IV and V, is expected to exceed pertinent RPS procurement mandates, including a minimum margin of over-procurement based on SDCP's risk assessment, as further described in Sections VII and IX. SDCP also expects to meet California's SB 350 long-term procurement requirement, as described in Sections V and VII, through the completion of current contract negotiations and any long-term RPS solicitation processes that may be administered thereafter.



SB 901, signed by Governor Brown on September 21, 2018, added Public Utilities Code section 8388, which requires any IOU, publicly owned electric utility, or CCA with a biomass contract meeting certain requirements to seek to amend the contract to extend the expiration date to be five years later than the expiration date that was operative as of 2018. SDCP does not have a contract with a biomass facility that is covered by Public Utilities Code section 8388.

[SB 255 \(stats. 2020, ch. 407\) amended Public Utilities Code § 366.2 to require certain CCAs to annually submit to the Commission the following: \(i\) a plan for “increasing procurement from small, local, and diverse business enterprises in all categories, including, but not limited to, renewable energy, energy storage system, and smart grid projects,” and \(ii\) a report regarding the CCA’s “procurement from women, minority, disabled veteran, and LGBT business enterprises in all categories, including, but not limited to, renewable energy, energy storage system, and smart grid projects.” SDCP’s compliance with SB 255 is described in Section X.B below.](#)

[Assembly Bill \(“AB”\) 843, signed by the Governor on September 23, 2021, authorizes CCAs to participate in the Bioenergy Market Adjusting Tariff \(“BioMAT”\) program if capacity is available under the program cap. SDCP does not have any immediate plans to participate in the BioMAT program, but may reevaluate this decision as part of its future planning for additional renewable procurement, which may also focus on locally-situated biomass and/or biofuel resources outside of the BioMAT program.](#)

[SB 1020, referred to as “Clean Energy, Jobs, and Affordability Action of 2022,” sets a statewide goal of one hundred percent zero-carbon electricity by 2045. SB 1020 also directed every state agency to ensure that zero carbon resources and eligible renewable energy resources supply one hundred percent of the electricity procured on its behalf by 2035. These state](#)

agencies are specifically directed to meet this 2035 target through any or all of the following options: (i) installing behind the meter resources, (ii) procuring zero-carbon or eligible renewable energy resources through the POU, IOU, CCA, or ESP that is providing retail service to that state agency, or (iii) participating in a qualifying voluntary shared renewable or green pricing program. SDCP is in the early stages of identifying and coordinating with any state agency customers regarding their planned compliance with SB 1020. SDCP will provide a more detailed update on the impacts of SB 1020 to its RPS procurement planning efforts in a subsequent RPS Procurement Plan.

#### **IV. Assessment of RPS Portfolio Supplies and Demand**

##### **IV.A. Portfolio Supply and Demand**

As previously noted, SDCP successfully initiated customer service in March 2021. Following the completion of ~~upcoming~~ expansion activities in 2023, SDCP ~~expects~~ will ~~is to~~ serve approximately 930,000 service accounts, which are expected to consume about 8,400 GWh per year. SDCP has now executed ~~seven~~ four long-term PCC1 supply contracts that will result in the delivery of approximately 1, ~~364,000~~ GWh per year following the successful commercial operation of related renewable generating projects (~~which is expected to occur in 2023~~) and SDCP's election of long-term PCC1 and PCC0 supply contracts via VAMO allocations will result in the delivery of over 2,900 GWh per year. SDCP's contracting of other IOU renewable portfolio products, through market offer solicitations, will only add to this procurement amount. One of the new-build projects will utilize photovoltaic solar generating ~~wind~~ technology, while the other ~~four~~ three new-build projects will utilize photovoltaic solar generating technology combined with battery, ~~with two of these projects incorporating battery~~ storage to allow for re-shaping of project energy deliveries.

Additional contracting efforts remain in process with additional solicitations scheduled in the future. Following the completion of negotiation activities associated with any long-term renewable supply agreement, the final contract(s) will be brought before SDCP's governing board for approval and, if approved, will be executed thereafter. Short-term renewable supply agreements may be executed by SDCP's Chief Executive Officer pursuant to delegated contracting authorities – the limitations associated with such contracting authorities are reflected in SDCP's Energy Risk Management Policy.

Over time, SDCP expects to continue meeting pertinent RPS compliance obligations by entering into a variety of renewable energy supply agreements of varying term lengths and structures. The exact portfolio characteristics selected may vary depending on direction received from SDCP's governing board, renewable resource availability, procurement costs, legislative and policy changes, technological improvements, principles of resource diversity, preferences of the Member Agencies and/or other developments. To manage this future uncertainty, SDCP will regularly evaluate anticipated supply requirements in consideration of expected customer electricity usage and anticipated renewable energy deliveries; such information is expected to influence future procurement efforts, which will attempt to balance customer usage with requisite resource commitments. SDCP is also aware of the need to promote the use of a diverse renewable resource portfolio, avoiding overcommitting to certain generating technologies, suppliers, geographic regions, etc. For now, the organization must remain open minded and considerate of all possible supply options. ~~During early stage operations,~~ SDCP must also proceed with its RPS planning and procurement activities under a “compliance first” mindset with the primary goal of securing necessary RPS supply (both long-term and short-term) from available generating sources – because financial penalties (related to compliance shortfalls)

under the RPS program are not waived or reduced in consideration of portfolio characteristics (such as technology and/or geographic diversity), it is advisable for new retail sellers, including SDCP, to primarily focus on securing requisite volumes, even if the majority of such volumes happen to be associated with a specific technology type or geographic region. This noted, SDCP will [continue to](#) make reasonable efforts to promote resource diversity during its ~~early-stage~~ renewable energy planning and procurement processes, and if such processes do not result in the desired level of resource diversity, SDCP will craft future solicitations to promote renewable energy portfolio diversity. For now, SDCP has successfully secured renewable energy deliveries that utilize wind, solar, “solar plus battery storage”, the latter of which will allow SDCP to reshape typical solar production to better align with customer energy use and market price signals.

The ongoing examination of customer electricity usage and other market developments should help reduce costs and assist in meeting planned procurement for the period reflected in this RPS Procurement Plan. SDCP notes that understanding customer electricity usage may be more challenging than usual during ~~early-stage~~[phased in](#) operations (when CCA participations rates can exhibit a certain level of volatility) and expansion activities. These challenges could be exacerbated by the implementation of fiscal policy changes intended to curb inflation (via phased interest rate increases) that may impose recessionary pressures on the economy. If recessionary markers start to surface, including reduced spending, business closures, constrained access to credit, etc., SDCP will attempt to evaluate the extent to which future customer energy usage may be affected. Regarding demand side impacts, these are often more challenging to isolate, as normal variations in usage caused by weather may obscure otherwise atypical variations in consumption. For renewable energy planning purposes, SDCP’s primary retail sales forecast

adjustments have been related to expected customer enrollments without noteworthy adjustments related to these circumstances. To the extent that retail sales fall below SDCP's expectations, it is likely that renewable energy content will be higher than necessary to promote achievement of programmatic goals. In such cases, SDCP expects that it could: 1) sell excess renewable energy supply to interested buyers, thereby rebalancing its portfolio to align with desired renewable energy targets; 2) retain excess renewable energy supply, providing customers with higher-than-promised renewable energy supply; or 3) explore other options/flexibility that may be available under California's RPS program to utilize excess volumes in another calendar year or compliance period. Such decisions will be made following consultation with SDCP's governing board, staff and technical advisors.

SDCP is also attempting to gain an improved understanding of the prospective impacts to its customer base associated with the potential reopening of California's direct access market due to SB 237 (2018) and D.19-05-043. In D.21-06-033, the Commission recommended against expanding direct access at this point, however, SDCP recognizes that this may change in the future. As such, SDCP will monitor the proceeding to determine potential impacts to its planning process. To the extent that SDCP load migrates to direct access providers, its retail sales would likely fall – in theory, such a change would increase SDCP's proportionate renewable energy content unless surplus supply was sold to other market participants; this would be similar to the impacts experienced by California's IOUs, which have resulted from ongoing CCA implementations and expansions – following these activities, the proportionate RPS content of each IOU has increased, as evidenced in the annual Power Source Disclosure Report of each IOU (for reference, this has occurred in spite of IOU-administered solicitations intended to sell off surplus RPS supply, which suggests that other retail sellers, particularly

CCAs, have already made meaningful progress in meeting applicable RPS mandates in the near-term planning horizon). To the extent that any direct access-related adjustments are incorporated in SDCP's RPS planning processes, it will reflect them in a subsequent RPS Procurement Plan. Through the ongoing evaluation of customer demand and other market developments, SDCP hopes to promote reduced overall costs while meeting planned procurement objectives for the period addressed in this RPS Procurement Plan.

#### **IV.A.1. Voluntary Allocation and Market Offer (VAMO)**

The Final Report of Working Group 3 Co-Chairs: Southern California Edison Company, CalCCA, and Commercial Energy ("Final Report") was filed on February 21, 2020, in the Commission's PCIA rulemaking (R.17-06-026). One of the Final Report's key proposals was for the Commission to create a VAMO framework, where each LSE serving customers subject to the PCIA would be provided an annual option to receive an allocation ("Voluntary Allocation") from the IOUs' PCIA-eligible RPS energy portfolios, based on that LSE's forecasted, vintaged, load share, and subject to certain conditions. Further, the Final Report proposed that any declined shares would be offered to LSEs through a market process ("Market Offer").

On May 20, 2021, the Commission adopted D.21-05-030, addressing the proposals in the Final Report. D.21-05-030 adopted the Final Report's VAMO proposal, subject to certain limitations and additional requirements. To implement this modified VAMO structure, D.21-05-030 identified various next steps, including IOUs providing LSEs their allocation share based on vintaged, annual load forecasts, and the submission of an advice letter to receive approval for pro forma contracts. LSEs were required to finalize elections and execute contracts with their respective IOU by July 29, 2022. ~~The Commission recently approved D.22-06-034, which~~

provided additional guidance on the VAMO process ~~and, as well as~~ Resolution E-5216 ~~which~~ approved the IOUs' pro forma contracts for the voluntary allocations. ~~The IOUs have also filed advice letters outlining their market offer processes for resources not allocated through the voluntary allocations; approval for these processes is expected later this year.~~ The Commission also approved D.22-11-021, which modified the process and timeline for the IOUs' Market Offer solicitations.

SDG&E offered SDCP an allocation share consisting of two different pools of resources: long- and short-term. The long-term pool consists of resources with more than 10 years left on their contracts whereas the short-term pool consists of resources that have less than 10 years left on their contracts. SDCP elected to receive 100 percent of its available long-term renewable energy voluntary allocation from SDG&E and none of the short-term allocation share. The table below details SDCP's long-term PCC1 and PCC0 supply contracts via VAMO elections.

It is noteworthy that SDCP's long-term supply agreement with SDG&E includes annual delivery quantities that will be adjusted based on SDCP's VAMO elections. As such, the annual delivery quantities reflected in the existing contract has been replaced by such VAMO allocations, as estimated below (based on information previously provided by SDG&E). Note that the aggregate long-term renewable energy volumes reflected in this table meaningfully exceed volumes reflected in SDCP's original long-term renewable supply agreement with SDG&E (by more than 200%, on average), which will provide SDCP with much more long-term bundled renewable energy supply in 2023 and beyond, relative to planning projections that preceded SDCP's VAMO elections.

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Expected Long-Term PCC0 MWh to be received via SDG&E VAMO election	359,534	359,534	359,534	359,534	359,534	359,534	359,534	359,534	359,534	359,534	283,000
Expected Long-Term PCC1 MWh to be received via SDG&E VAMO election	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,403,000

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
<del>Expected Long-Term PCC0 MWh to be received via SDG&amp;E VAMO election</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>	<del>359,534</del>
<del>Expected Long-Term PCC1 MWh to be received via SDG&amp;E VAMO election</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>	<del>2,570,407</del>

SDCP participated in both the Short-term Market Offer process, as well as the Long-term Market Offer process of all three IOUs in 2023. SDCP was not awarded any volumes from any of the IOUs in the Short-term MO, though were awarded a short-term allocation of PG&E's Long-term Portfolio, as well as a long-term allocation of PG&E's Long-term Portfolio. Also, SDCP was awarded a short-term allocation of SDG&E's Long-term Portfolio, as well as a long-term allocation of SDG&E's Long-term Portfolio

PG&E



1. Short-term allocation of Long-term Portfolio

- 25%
- 2023-2024 (Tier 1 CPUC approval – CY 2024)

2. Long-term allocation of Long-term Portfolio

- 7%
- 2023-2043 (Tier 3 CPUC approval – 2043, or termination of longest PPA in PG&Es Long-term Portfolio)

SDG&E

3. Short-term allocation of Long-term Portfolio

- 65%
- 2023-2024 (Tier 1 CPUC approval – CY 2024)

4. Long-term allocation of Long-term Portfolio

- 35%
- 2023-2040 (Tier 3 CPUC approval – 2040, or termination of longest PPA in SD&Es Long-term Portfolio)

**IV.A.2. Portfolio Optimization**

SDCP’s goal is to meet organizational policies, reliability requirements, and statewide procurement mandates in a manner that is both cost effective and supportive of a well-balanced resource portfolio. Portfolio optimization strategies can help reduce costs and should facilitate alignment of SDCP’s portfolio of resources with its forecasted load needs. To support this goal, SDCP considers the following strategies:

**Purchases from Retail Sellers:** Purchases of RPS-eligible renewable energy (via resale) from other retail sellers can provide a cost-effective way of meeting short-term resource needs or filling in gaps in procurement while long-term projects are under development.

**Sales Solicitations:** As SDCP's portfolio of resources continues to develop, it will also consider offering solicitations of sales to other retail sellers, if the disposition of surplus is deemed desirable. SDCP's willingness to pursue such sales will be dependent upon its ongoing monitoring of RPS positions, prospective sales pricing and direction received from its Governing Board and executive management.

**Optimizing Existing Procurement:** As SDCP considers its long-term resource needs, it may evaluate options in its future power purchase agreements to increase the output of existing generating facilities through technological upgrades, by adding new capacity to an existing generator or by adding energy storage infrastructure to an existing renewable generator. Expanding existing facilities may provide additional generation at reduced costs with lower risks of project failure because the need for distribution system upgrades and permitting may be reduced – such opportunities may be pursued/developed, as deemed appropriate by SDCP. The addition of energy storage infrastructure to an existing renewable generator would be expected to enhance grid reliability as well as the value of electric energy produced by the generating facility, as the pre-storage energy delivery profile could be shifted to: 1) better align SDCP's supply with customer demand; or 2) create more value for SDCP customers by shifting electric energy deliveries to a time of day when market revenues received would be greater. In terms of reliability impacts related to the addition of energy storage infrastructure, SDCP expects that such enhancements would meaningfully increase the proportionate level of resource

adequacy capacity that could be derived from an intermittent renewable generating resource without such storage infrastructure – reductions to the net qualifying capacity of intermittent renewable generating resources are well documented and ongoing, resulting in very little capacity benefits from solar-only generating projects. In considering these sorts of enhancements, SDCP will be mindful of the need to coordinate with its resource owners/operators to evaluate potential planning constraints (related to generator interconnection, for example) before assuming that the addition of energy storage infrastructure at an existing generating facility would be a viable option.

**Holistic Portfolio Design and Procurement Strategy:** In light of the multiple procurement-related compliance requirements with which California LSEs must comply – RA (administered both by CAISO and CPUC), Integrated Resource Planning (D. 19-11-016, Mid-Term Reliability, etc.), RPS (including long-term contracting requirements), in addition to any LSE-specific incremental or voluntary program goals – SDCP is mindful to take a holistic approach to procurement efforts. Targeting resources that can satisfy multiple compliance or voluntary objectives provides for more efficient and cost-effective procurement than alternative approaches that may target individual compliance products or requirements one-by-one without consideration of synergies or economies of scale that may result from resources that can deliver products to satisfy multiple program requirements and evaluating projects and proposals as such to ensure that the co-benefits and efficiencies of such procurement are correctly incorporated.

On June 24, 2021, the Commission adopted D.21-06-035, which directed all retail sellers to procure 11,500 MW of new net qualifying capacity (“NQC”) between 2023 and 2026 and assigned each retail seller a specific procurement responsibility based on its share of peak

demand. SDCP's total obligation is 570 MW, which must include minimum amounts of procurement from certain subcategories: (1) 124 MW from firm, zero-emitting capacity by 2025; (2) 50 MW from long duration storage resources by 2028~~26~~; and (3) 49 MW from firm, non-fossil fueled baseload generating resources by 2028~~26~~. Pursuant to the allowance in D.21-06-035 for retail sellers within the same Transmission Access Charge ("TAC") area to reallocate procurement obligations upon mutual agreement, SDCP and SDG&E have collaborated to revise their obligations in D.21-06-035, which were based on preliminary load forecasts that have since been refined. SDG&E filed the revised, mutually agreed capacity requirements to the CPUC on March 16, 2022 via Advice Letter 3967-E. This advice letter has since been suspended and awaits further commission review and action. SDCP expects that approval of this reallocation of obligations will be completed within the coming weeks. Once procurement obligations have been finalized, SDCP will review progress toward targets in each of the subcategories. SDCP expects that contracts executed pursuant to its 2020 Long-term RPS solicitation will fulfill a portion of 2023 and 2024 obligations, supplemented by additional volume from contracts currently under negotiation. SDCP's ~~expects its next~~ Long-term RPS solicitations ~~to in 2022 and~~ 2023 focused on meeting any remaining procurement obligations from D.21-06-035.

#### **IV.B. Responsiveness to Local and Regional Policies**

##### **(i) Responsiveness to Policies of SDCP's Governing Board**

SDCP is a joint powers authority that is subject to the control of its governing board and is directly accountable to its Member Agencies. SDCP supports and is committed to meeting the state's GHG reduction and renewable procurement goals, as well as supporting its Member Agency cities in meeting their respective CAP goals. Furthermore, and as noted elsewhere in this RPS Procurement Plan, SDCP has adopted near-term renewable portfolio targets that

meaningfully exceed RPS mandates, offering a minimum 50 percent renewable energy content through its default retail service offering. SDCP has also determined to: 1) forgo the purchase of PCC3 products; and 2) limit the use of PCC2 products (in favor of PCC1 products), subject to product availability and budgetary impacts. SDCP's Governing Board has decided to structure its RPS portfolio with these considerations in mind, as such an approach is expected to minimize attributed GHG emissions associated with its reported energy purchases (under California's Power Source Disclosure Program). SDCP has a complementary carbon-free portfolio metric of 55 percent, so any renewable energy purchase will be evaluated in light of the incremental impacts to SDCP's anticipated emission rate – SDCP understands that all PCC3 and most PCC2 product purchases (subject to substitute energy specifications) will increase its overall emission factor. In addition to state mandates and meeting the respective CAP goals of SDCP's Member Agencies, as detailed below, on June 23, 2022, SDCP's Governing Board adopted additional targets for its energy portfolio development, including: goals of 50 percent renewable energy content in 2022, 75 percent in 2027, 85 percent in 2030 and 100 percent in 2035; 15 percent of energy portfolio [capacity](#) from new, distributed infill storage or solar plus storage resources within Member Agencies' territory by 2035; and 600MW of new utility scale projects within San Diego and Imperial Counties by 2035, all of which will impact SDCP's energy portfolio strategies.

[SDCP is also implementing solicitations for the Disadvantaged Communities - Green Tariff \("DAC-GT"\) and Community Solar Green Tariff \("CSGT"\). On May 19, 2023, SDCP submitted a Tier 2 AL 13-E, seeking CPUC approval for SDCP's DAC-GT and CSGT solicitation materials. The DAC-GT and CSGT solicitation documents include the Request for Offer \(RFO\) Protocol, Term Sheet, and Generation Offer Form. The Commission approved the](#)

[material in June 2023 and SDCP will release the DAC-GT and CSGT solicitation documents in August 2023.](#)

(ii) Responsiveness to Regional Policies

As noted in the previous sub-section, SDCP is overseen by its governing board. As such, the policies adopted by SDCP's governing board serve as guiding directives for CCA operations, including the determination of renewable energy planning targets that are intended to support local policy preferences. Reducing electric utility sector GHG emissions generated by residents and businesses was a driving factor in the formation of SDCP, as well as investing in the community through local projects. The City of San Diego adopted its CAP in December 2015, which sets a goal for 100 percent renewable energy city-wide by 2035.<sup>5</sup> The City of Encinitas adopted and updated CAP in 2020 with a goal to reduce emissions to 44 percent below 2012 levels by 2030.<sup>6</sup> The City's establishment of a CCA program will have a significant impact on its emissions goals with a reduction of 19,465 MTCO<sub>2</sub>e, the largest of the prospective reductions reflected in the updated CAP's 20 GHG reduction strategies.<sup>7</sup> Similarly, the City of La Mesa adopted its CAP in March 2018, which set a goal to reduce emissions by 68,450 MTCO<sub>2</sub>e by 2035.<sup>8</sup> The City of Chula Vista adopted its CAP in September 2017, and it established a goal for up to 100 percent clean energy through the formation of a CCA program.<sup>9</sup> The City of Imperial

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<sup>5</sup> See *Climate Action Plan*, City of San Diego, December 2015, at 35, available at [https://www.sandiego.gov/sites/default/files/final\\_july\\_2016\\_cap.pdf](https://www.sandiego.gov/sites/default/files/final_july_2016_cap.pdf).

<sup>6</sup> See *Climate Action Plan Interim Revision*, City of Encinitas, November 2020, at 1-7, available at [https://encinitasca.gov/Portals/0/City%20Documents/Documents/City%20Manager/Climate%20Action/CAP\\_2\\_3\\_2021\\_final.pdf?ver=2021-02-03-151752-820](https://encinitasca.gov/Portals/0/City%20Documents/Documents/City%20Manager/Climate%20Action/CAP_2_3_2021_final.pdf?ver=2021-02-03-151752-820)

<sup>7</sup> See *Climate Action Plan Interim Revision*, City of Encinitas, at 3-7.

<sup>8</sup> See *Climate Action Plan*, City of La Mesa, March 13, 2018, at 45, available at [https://www.cityoflamesa.us/DocumentCenter/View/11008/LMCAP\\_CC03132018](https://www.cityoflamesa.us/DocumentCenter/View/11008/LMCAP_CC03132018).

<sup>9</sup> See *Climate Action Plan*, City of Chula Vista, September 2017, at 20, available at <https://www.chulavistaca.gov/home/showdocument?id=15586>.

Beach adopted a CAP in July 2019 which set a goal for 85 percent renewable energy by 2030.<sup>10</sup> SDCP’s newest Member Agencies – National City and San Diego County – were also motivated in part to join SDCP as a strategy to meet their respective CAP goals and several Member Agencies are in the process of updating their CAPs. The Member Agencies intend to contribute to achieving these and future goals collaboratively by operating SDCP to provide electric energy to residential, commercial and governmental electric accounts located within their communities and delivering supportive customer programs.

#### **IV.B.1. Long-term Procurement**

Pursuant to Public Utilities Code section 399.13(b), from 2021 onwards, 65 percent of mandated renewable energy purchases must be sourced from contracts of 10 years or more.<sup>11</sup> SDCP has been conscientiously pursuing contracting opportunities to meet this requirement and has now entered into ~~five~~nine unique long-term PCC1 supply agreements (VAMO, two Market Offers, six PPAs), which include: 1) a long-term (20-year) PCC1 supply agreement with Vikings Energy Farm, LLC, executed on May 3, 2021, which will cause the delivery of approximately 250,000 MWh per year of renewable energy produced by a new ~~132~~90 megawatt photovoltaic solar array (plus battery storage) located in Imperial County that is expected to commence commercial operation in ~~June 2023~~September 2024; 2) a long-term (20-year) PCC1 supply agreement with JVR Energy Park, LLC, executed on June 4, 2021, which will cause the delivery of approximately 260,000 MWh per year of renewable energy produced by a new 90 megawatt

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<sup>10</sup> See *Local Coastal Program Resilient Imperial Beach Climate Action Plan*, City of Imperial Beach, July 17, 2019, at 31, available at <https://www.imperialbeachca.gov/ApprovedClimateActionPlan2019>.

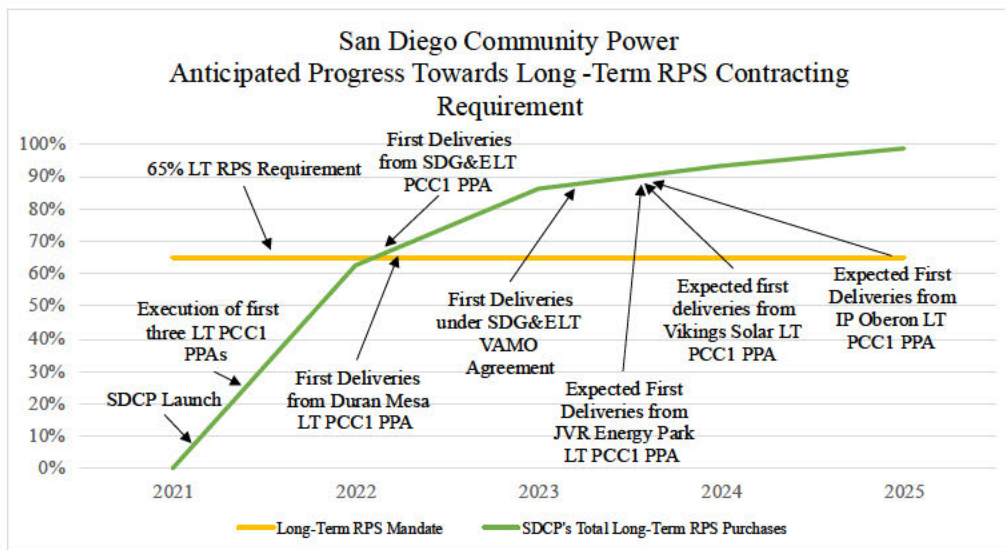
<sup>11</sup> Cal. Pub. Util. Code § 399.13(b)(1) (“A retail seller may enter into a combination of long- and short-term contracts for electricity and associated renewable energy credits. Beginning January 1, 2021, at least 65 percent of the procurement a retail seller counts toward the renewables portfolio standard requirement of each compliance period shall be from its contracts of 10 years or more in duration or in its ownership or ownership agreements for eligible renewable energy resources.”).

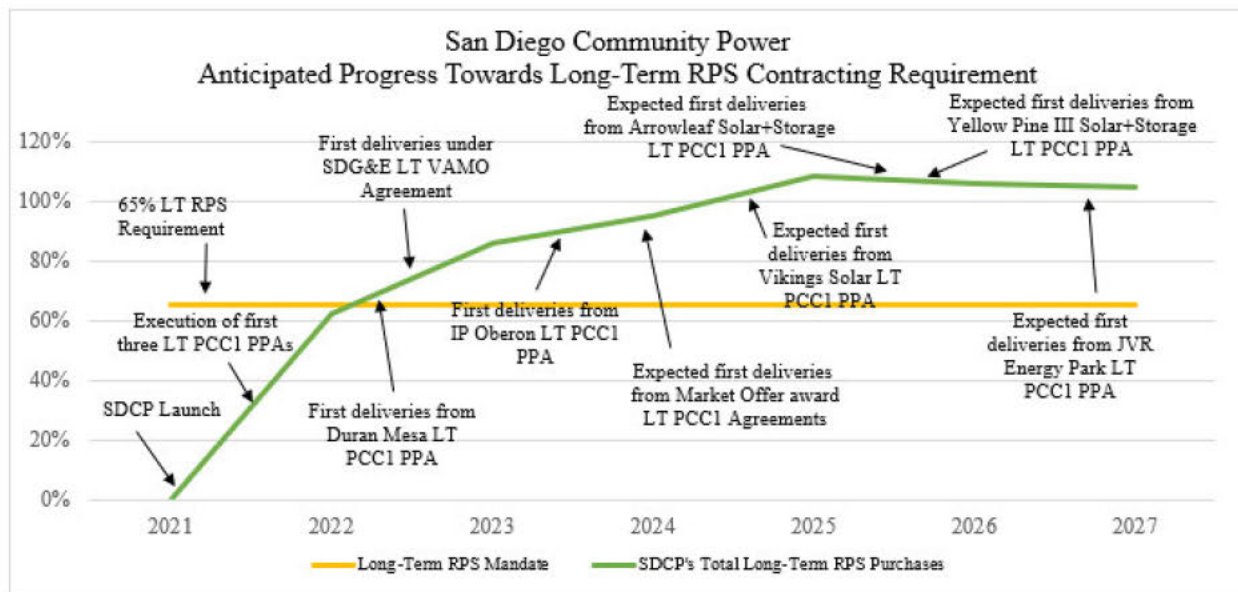
photovoltaic solar array (plus battery storage) located in San Diego County that is expected to commence commercial operation in ~~March 2023~~[October 2026](#); 3) a long-term (15-year) PCC1 supply agreement with IP Oberon, LLC, executed on June 11, 2021, which will cause the delivery of approximately 225,000 MWh per year of renewable energy produced by a new 75 megawatt photovoltaic solar array located in Riverside County that is expected to commence commercial operation in June 2023; 4) a long-term (12-year) PCC1 supply agreement with SDG&E, executed on December 20, 2021, which will cause the delivery of approximately 120,000 to 1,580,000 MWh per year of renewable energy produced by a portfolio of RPS-eligible generating resources, as listed in the contract, beginning in 2022; ~~and~~ 5) a long-term (10-year) PCC1 supply agreement with Duran Mesa, LLC, executed on January 27, 2022, which will cause the delivery of approximately 170,000 MWh per year of renewable energy produced by a 50 MW share of a 105 MW wind project located in Torrance County, New Mexico that ~~recently~~ achieved commercial operation (on November 30, 2021, as reflected in the California Energy Commission's associated certificate for this project) and began delivering power to SDCP on February 1, 2022; 6) a long-term (20-year) PCC1 supply agreement with Orni 30 LLC, executed on June 29, 2023, for a new 42 megawatt photovoltaic solar array (plus 35 MW battery storage) located in Imperial County that is expected to commence commercial operation in April 2025; 7) a long-term (20-year) PCC1 supply agreement with Yellow Pine Solar III, LLC, executed on July 3, 2023, for a new 35 megawatt photovoltaic solar array (plus 35 MW battery storage) located in Clark County, Nevada that is expected to commence commercial operation in October 2025; 8) Long-term PCC1 Market Offer award from PG&E (approx. 2023-2043); and 9) Long-term PCC1 Market Offer award from SDG&E (approx. 2023-2040).—

Note that one of the aforementioned projects, Duran Mesa, has already achieved



commercial operation, [IP Operon will achieve commercial operation in 2023](#), and the noted agreement with SDG&E [VAMO, PG&E MO award, and SDG&E MO award](#) will be exclusively supplied from existing/operational projects, which serves to de-risk a significant portion of SDCP's upcoming long-term RPS deliveries. ~~This noted,~~ SDCP's ~~upcoming~~ expansion activities [in 2022 and 2023](#) necessitated its acceptance of certain long-term allocations available under VAMO and, potentially, other long-term RPS purchases to ensure compliance with applicable long-term contracting requirements during CP4 and beyond. It is worth noting that SDCP intends to continue focusing the significant majority of its PCC1 contracting efforts on contract durations of ten years or longer, which should contribute to the accrual of a planning reserve over time, alleviating concerns regarding long-term contract compliance. This anticipated trajectory, which includes certain of SDCP's long-term VAMO allocation elections, is reflected in the following ~~chart~~[table](#).





	<u>CP4</u> <u>2021-2024</u>	<u>CP5</u> <u>2025-2027</u>	<u>CP6</u> <u>2028-2030</u>
<u>SDCP Retail Sale - MWh</u>	<u>25,022,199</u>	<u>26,599,629</u>	<u>27,003,270</u>
<u>State Mandated RPS Target - % of Retail Sales</u>	<u>41.1%</u>	<u>49.3%</u>	<u>57.3%</u>
<u>SDCP State Mandated RPS Target- MWh</u>	<u>10,281,210</u>	<u>13,124,957</u>	<u>15,484,265</u>
<u>State Mandated 65% Long-Term Contracting Target - MWh</u>	<u>6,682,786</u>	<u>8,521,222</u>	<u>10,064,772</u>
<u>SDCP Long-term Procurement Achieved – MWh</u>	<u>11,643,002</u>	<u>17,262,972</u>	<u>21,729,864</u>
<u>SDCP Long-term Procurement Achieved - %</u>	<u>113%</u>	<u>132%</u>	<u>140%</u>

As reflected in the previous ~~table~~ chart, SDCP expects to meaningfully exceed applicable long-term RPS procurement mandates in Compliance Period 4. More specifically, for Compliance Period 4, SDCP expects to procure in excess of ~~140~~ 130% of its required long-term RPS mandate (which means that SDCP expects to procure ~~93~~ 87% of total statutorily mandated RPS purchases from long-term contracts), based on expected RPS deliveries of over ~~9,000~~ 8,600 GWh, relative to a projected long-term procurement obligation of about ~~6,4~~ 300 GWh. Similarly,

in Compliance Period 5, which includes calendar years 2025 through 2027, SDCP also expects to procure in excess of ~~140~~145% of its required long-term RPS mandate (which means that SDCP again expects to procure ~~approximately greater than~~ 93~~95~~% of total statutorily mandated RPS purchases from long-term contracts), based on expected RPS deliveries of over ~~11,500~~12,000 GWh, relative to a projected long-term procurement obligation of approximately 8,100 GWh. In Compliance Period 6, which includes calendar years 2028 through 2030, SDCP expects to procure about ~~120~~145% of its required long-term RPS mandate (which means that SDCP again expects to procure approximately ~~79~~95% of total statutorily mandated RPS purchases from long-term contracts), based on expected RPS deliveries of approximately ~~11,500~~14,000 GWh, relative to a projected long-term procurement obligation of approximately 9,600 GWh. These projections are based on estimated annual deliveries to be received under SDCP's long-term VAMO supply agreement with SDG&E, which was executed on December 20, 2021. While SDCP previously advised the Commission of its intent to accept certain long-term RPS volumes under VAMO, this agreement has now been finalized, ~~so related volumes are forthcoming.~~ SDCP has also accepted Long-term MO award volumes that will contribute to these compliance periods, as well as new build renewable development projects. The previous procurement estimates have accounted for the net impact of SDCP's VAMO supply to overall renewable energy purchases, and SDCP believes it would successfully achieve compliance with long-term RPS procurement mandates through 2030 under a variety of adverse scenarios in which severe delivery shortfalls could occur.

Even with long-term RPS deliveries expected to meaningfully exceed applicable mandates, SDCP expects to continue the selective pursuit of additional long-term RPS contracting opportunities via independently administered solicitations and bilateral contracting

discussions. Future long-term RPS contracting efforts are likely to focus on diversifying SDCP's RPS supply portfolio and may include additional hybrid generating configurations, baseload renewable generating technologies and/or emerging renewable generating technologies that would be expected to promote budgetary certainty and grid reliability.

#### **IV.C. Portfolio Diversity and Reliability**

Power purchased from power marketers, public agencies, generators, CCAs, or utilities will be a ~~significant~~ source of supply ~~during the first several years of~~for SDCP's operation. Based on current contracting efforts, SDCP expects to obtain requisite electricity supply from several suppliers, including power marketers, project developers, and/or IOUs. Such suppliers will be responsible for delivering a portion of SDCP's intended resource mix, including SDCP's desired quantities of renewable and carbon-free energy, to provide a stable and cost-effective resource portfolio.<sup>12</sup>

In carrying out its planning functions, SDCP will also consider the deliverability characteristics of its future generating resources placed under contract (such as the resource's dispatchability, available capacity, and typical production patterns) and will review the respective risks associated with short- and long-term purchases as part of its forecasting and procurement processes. These efforts should lead to a more diverse resource mix, address grid integration issues, and provide value to the Member Agencies.

SDCP intends to utilize a portfolio risk management approach as part of its power purchasing program, seeking low-cost supply (based on then-current market conditions) as well as diversity among technologies, production profiles, project sizes and locations, counterparties,

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<sup>12</sup> See *San Diego Community Power Community Choice Aggregation Implementation Plan and Statement of Intent*, December 9, 2019, p.1 at 6.6, available at <http://sdcommunitypower.org/resources/key-documents/>.

lengths of contract, and timing of market purchases. For its recently executed long-term renewable supply agreements with new generating resources, SDCP has reflected a risk adjustment (failure/under-delivery rate) of 5 percent in year one and 3 percent in each year thereafter. The larger year-one adjustment is intended to account for potential late deliveries (resulting from delayed commercial operation), while the smaller ongoing risk adjustments are intended to account for resource intermittency and the potential for lower-than-anticipated energy production. These assumptions were informed by discussions with other CCA organizations. SDCP ~~assumes~~ admits that its initial supply portfolio ~~may~~ has included a relatively small number of contracts which will grow in number over time, increasingly emphasizing the principles of resource and counterparty diversity as operational experience ~~is~~ has been gained and renewable energy requirements increase.

While SDCP is not opposed to considering emerging renewable generating technologies, it is unlikely that its early-stage supply agreement(s) will focus on such resources – SDCP has yet to receive credible and cost-competitive proposals from emerging renewable generating technologies, but if such proposals arrive in the future, they will be closely considered alongside other viable options. ~~As a relatively new CCA organization,~~ SDCP's ~~first several~~ renewable supply commitments must result in reliable, cost-effective supply to promote compliance with applicable RPS mandates without bearing the risks typically associated with newer technologies. Until compelling proposals for emerging renewable generating technologies are received, SDCP will likely exhibit preferences for proven generating technologies and supply structures that will minimize delivery risk during early-stage operation while allowing for re-shaping of certain renewable generating profiles to better align supply with demand. If, however, a compelling offer is presented for a cost-effective emerging technology, SDCP will evaluate such proposal on

its merits relative to other available offers.

SDCP will procure renewable and other requisite energy products, as necessary, to ensure that the future energy needs of its customers are met in a reliable and cost-effective manner, consistent with applicable compliance mandates. SDCP, through its CCA Implementation Plan and subsequent planning discussions, has established initial procurement targets for requisite renewable energy supply, including subcategories for various renewable energy products, and has also established targets for related planning reserves as described elsewhere in this document. To the extent that SDCP's energy needs are not fulfilled through the use of renewable generating resources, it should be assumed that such supply will be sourced from carbon-free and/or conventional energy resources, such as hydroelectric or natural gas generating technologies, as well as system power purchases.

A key component of SDCP's ~~early stage~~ planning process relates to the analysis and consideration of expected load obligations with the objective of closely balancing supply and demand, rate stability, and overall budgetary impacts. ~~During pre-launch activities, t~~This process primarily focuses~~d~~ on the compilation and analysis of historical customer data, as provided by SDG&E, identification of any ineligible/excluded accounts (that will not be enrolled in CCA service), and related refinements to SDCP's retail sales forecasts. Similar to most CCAs, SDCP expects that such historical data will not be a perfect predictor of future customer energy requirements, so it intends to actively monitor actual customer usage, relative to projections, over time, refining such forecasts as well as its ability to minimize variances between procured energy quantities and actual usage. SDCP also plans to maintain portfolio coverage targets of up to 100 percent (of expected customer energy requirements) in the near-term (0 to 2 years) but will leave larger open positions in the mid- to long-term, consistent with generally accepted industry

practices.

At this point in time, SDCP has no explicit preference for specific renewable generating technologies and will consider all responses to its solicitations with the goal of assembling a diversified renewable energy supply portfolio that will deliver energy in a profile that is generally consistent with ~~the~~ SDCP's anticipated load shape —~~SDCP recognizes that closely aligning the shape of renewable energy deliveries with anticipated retail demand may be particularly challenging during early stage operations; the need for substantial long term renewable supply commitments, coupled with potential load variability during CCA customer enrollment processes, will likely necessitate the pursuit of contracting opportunities that may not deliver power in close alignment with early stage customer usage patterns; over time, however,~~ SDCP's growing portfolio of renewable supply commitments will be increasingly considerate of load/resource balances and will attempt, subject to product availability and related costs, to promote such balance to the greatest practical extent. SDCP is also aware that use of intermittent renewable generating technologies has the potential to create occasional misalignments between customer energy consumption and related power production as well as the general quantity of renewable energy received from such projects. SDCP expects that its voluntary commitment to a minimum 50 percent renewable supply portfolio will protect against this uncertainty. In addition, and for purposes of promoting better alignment of customer energy usage and expected energy deliveries, SDCP is considering both stand-alone storage and hybrid or co-located storage and renewable energy projects—~~in addition to those already contracted under the Vikings Energy Farm and JVR Energy Park PPAs~~ — via its ongoing Local RFI and its ~~upcoming~~ [continuing](#) Long Duration Storage and all-source RPS RFOs.

[SDCP forecasts its future load growth by applying a fixed annual increase of](#)

approximately 0.5% in retail sales as compared to the prior year. This forecast value was derived using historical trends and is re-evaluated and adjusted based on actual load data. The load curves that SDCP prepares to support this forecast evaluate and assume increases in customer energy usage due to transportation electrification, but currently do not separately forecast transportation electrification load growth. Based on SDCP's evaluation of transportation electrification load growth up to the date of the filing of this RPS Procurement Plan, transportation electrification has not caused deviations from the overall expected load growth trends because this specific sector of load growth has not been significant in comparison to competing factors, such as energy efficiency programs, customer-sited generation, and general economic impacts.

However, because state and local transportation goals are likely to result in significant increases in transportation electrification in the future, SDCP will be assessing and evaluating if its near term forecasts should be adjusted based on changes likely to occur in its region. This evaluation

~~In developing its load forecasts, SDCP prepares load curves that reflect expected increases in customer energy usage due to transportation and building electrification.~~

~~Transportation electrification planning~~ considers light duty vehicles (personal use),

electrification of vehicle fleets (commercial) and local targets for electrification of public transit

systems while building electrification considers the phasing out of onsite use of natural gas for

heating, cooling and other appliances in buildings through all-electric technologies. ~~The~~

~~forecasting of SDCP's anticipated transportation electrification adoption rates is performed~~

~~through the application of a fixed percentage annual increase that is informed by historical~~

~~observations and generalized trends related to transportation electrification adoption.~~ The

information considered in this process includes the ~~three~~ mid scenarios ~~(low, mid, high)~~



identified in the California Energy Commission’s Integrated Energy Policy Report (“IEPR”) Demand Forecast.<sup>13</sup> SDCP is ~~currently~~ evaluating the development of a transportation electrification forecast that would also incorporate ~~be directly based on the mid scenario for transportation electricity demand of the IEPR Demand Forecast as well~~ as other available data/information that would allow such a forecast to be directly tailored to its region – this data/information may include local policies related to transportation electrification, if applicable, locally available incentives focused on transportation electrification and/or data related to electric transportation adoption/conversion occurring within SDCP’s service territory. SDCP is ~~in the early stages of~~ coordinating with its member municipalities to determine pertinent local targets for transportation and building electrification and, following the identification of these local planning parameters, will accordingly update its load curves to reflect such assumptions.

~~For the time being,~~

~~SDCP has assumed annual increases in its retail sales that reflect the net impacts of transportation and building electrification, energy efficiency improvements, customer sited generation and other factors, but SDCP will endeavor to continually refine such planning assumptions to more accurately characterize the impacts of transportation and building electrification on its overall energy needs and, in particular, its RPS related renewable energy requirements.—~~

To more closely align SDCP’s resource portfolio with the evolving energy requirements of its member communities, SDCP anticipates that a diverse set of renewable resources will be necessary, including the strategic inclusion of generating resources, energy storage resources,

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<sup>13</sup> See Javanbakht, Heidi, Cary Garcia, Ingrid Neumann, Anitha Rednam, Stephanie Bailey, and Quentin Gee. 2022. Final 2021 Integrated Energy Policy Report, Volume IV: California Energy Demand Forecast. California Energy Commission. Publication Number: CEC-100-2021-001-V4, at 65.

and complementary infrastructure that may allow SDCP to dispatch/shape such supply in consideration of evolving customer energy needs and usage patterns.

#### IV.D. Lessons Learned

~~In communicating with and reviewing the RPS Procurement Plans of California's most mature CCA organizations, SDCP observes that Marin Clean Energy ("MCE") has highlighted the benefits of geographic diversity in constructing a renewable supply portfolio. MCE noted that certain areas of the state have been overbuilt with renewable generating infrastructure, which has created challenges related to depressed market prices and increasing levels of resource curtailment. SDCP has kept this observation in mind when assembling its own renewable resource portfolio, avoiding overcommitment to resources within a narrowly defined geographic area. SDCP also continues to evaluate historical pricing trends, which have materially changed in the wake of increased renewable energy buildout. Due to these transitions and suppressed (and oftentimes negative) market pricing, SDCP will likely avoid contracting with generators located in certain areas or require substantial storage capacity (operated in parallel with renewable generating infrastructure) to mitigate market price risk when considering renewable generating resources located in such areas. SDCP appreciates the substantial financial risks that are created by California's long-term renewable contracting requirements and will continue to explore opportunities to manage such risks during its contracting efforts. SDCP also observes that technological diversity is an important principal to incorporate in RPS planning efforts.~~

~~As a relatively new CCA, SDCP is gaining familiarity and experience with the information and processes that will be necessary to demonstrate compliance with the requirements of California's RPS Program but does not have any substantive lessons learned to share at this point in time.~~ SDCP is also aware that prudent planning and successful

management of early-stage CCA program finances is critical in managing ongoing market risk and other uncertainties. As such, SDCP will exercise care in pursuing its early-stage renewable energy supply options to promote alignment with budgetary parameters. SDCP may also pursue interagency solicitation/procurement opportunities to the extent that such coordinated efforts can increase procedural efficiency, reduce administrative redundancy, and decrease certain expenses typically associated with such processes.

### V. Project Development Status Update

As described in Section IV.B above, SDCP’s current and planned procurement is expected to be sufficient to meet both the applicable RPS procurement requirements as well as support the state’s GHG reduction targets. Further, SDCP’s current and planned procurement is expected to support system reliability by considering both portfolio diversity and alignment with SDCP’s customers’ load curve. SDCP has entered into ~~five~~eight agreements with RPS-eligible facilities, with ~~three~~four having reached commercial operation. These projects are summarized in the following table.

Facility Name	Technology Type	MW-ac	Location	Term Length	Expected COD	Network Upgrades Milestone
VAMO	Various	Portfolio	Various	10	On-line	Complete
Duran Mesa	Wind	50	Torrance County, New Mexico	10	On-line	Complete
<a href="#">Burney Forest Products</a>	<a href="#">Biomass</a>	<a href="#">29</a>	<a href="#">Burney, CA</a>	<a href="#">5</a>	<a href="#">On-line</a>	<a href="#">Complete</a>
<a href="#">IP Oberon</a>	<a href="#">Solar</a>	<a href="#">75</a>	<a href="#">Riverside, CA</a>	<a href="#">15</a>	<a href="#">06/30/2023</a>	<a href="#">6/30/2023</a>
Vikings Energy Farm	Solar + Storage	100	Imperial, CA	20		
<a href="#">Arrowleaf Solar and</a>	<a href="#">Solar + Storage</a>	<a href="#">42</a>	<a href="#">Imperial, CA</a>	<a href="#">20</a>		

<u>Storage</u>					
<u>Yellow Pine III</u> <del>IP-Oberon</del>	<u>Solar + Storage</u> <del>Solar</del> r	<del>3575</del>	<u>Clark County, NV</u> <del>Riverside, CA</del>	<del>2015</del>	
JVR Energy Park	Solar + Storage	90	San Diego, CA	20	

~~Three~~Five of SDCP's five long-term RPS contracts are associated with generating resources that have yet to achieve commercial operation. These projects include:

- Vikings Energy Farm, LLC: a new ~~100~~36.5 megawatt photovoltaic solar array (plus battery storage) located in Imperial County that is expected to commence commercial operation in ~~2023~~2024. This project is progressing through pre-construction activities. Vikings Energy Farm has executed an Interconnection Agreement and Transmission Service Rights Agreement with Imperial Irrigation District. Vikings has hired an Engineering firm and expects its Conditional Use Permit to be approved by Imperial County in Q~~3~~2 2022.
- JVR Energy Park, LLC: a new 90 megawatt photovoltaic solar array (plus battery storage) located in San Diego County that is expected to commence commercial operation in 202~~3~~6. This project is progressing through pre-construction activities. JVR has completed Interconnection Agreement, Major Use Permit, and EPC contracting is pending.
- IP Oberon, LLC: a new 75 megawatt photovoltaic solar array located in Riverside County that is expected to commence commercial operation in 2023. Oberon has executed an Interconnection Agreement, received CEC Pre-certification, and has achieved all site

control and permits.

- [Arrowleaf Solar and Storage \(Orni 30 LLC\): a new 42 megawatt photovoltaic solar array \(plus 35 MW battery storage\) located in Imperial County that is expected to commence commercial operation in Q2 2025.](#)
- [Yellow Pine Solar III, LLC: a new 35 megawatt photovoltaic solar array \(plus 35 MW battery storage\) Clark County, Nevada that is expected to commence commercial operation in Q4 2025.](#)

In consideration of SDCP's recent contracting efforts with new renewable generating resources, it has updated Appendix D, the Project Development Status Update Report. SDCP is aware of the pandemic, geopolitical, and supply-chain impacts that many LSEs and developers are currently facing related to new resource development and is working closely with each of its contractual counterparties to monitor and mitigate any potential impacts of these delays on SDCP's supply portfolio, market exposure, RPS compliance, and customer rates. As new information related to SDCP's renewable energy contracting process(es) becomes available, SDCP will update its Project Development Status Update Report accordingly.

~~SDCP has already submitted updates to the CODs for both Vikings and JVR Energy Park as those projects have experienced delays due to due to permitting or interconnection, and/or supply chain issues, particularly in light of Covid-19. These are reflected in previous table above.~~

## **VI. Potential Compliance Delays**

Based on recently completed and expected renewable energy procurement efforts and the acceptance of VAMO allocations, SDCP does not anticipate any compliance delays related to Compliance Period 4, which includes calendar years 2021-2024. If a future compliance issue is identified or SDCP encounters challenges in securing requisite renewable energy supply in the

future, then SDCP will address such issue within a subsequent RPS Procurement Plan.

SDCP will continue assessing projected long-term open positions (that may exist in CP5 and CP6) relative to expected deliveries and intends to administer future solicitations, as necessary, to ensure compliance with the RPS Program over the upcoming 10-year planning horizon. If a future compliance issue is identified or SDCP encounters challenges in securing requisite renewable energy supply, then it will address such issues in a subsequent RPS Procurement Plan.

### **VI.1. Impacts of COVID-19 Pandemic**

As the Commission is aware, successful renewable energy markets depend upon international supply chains, substantial labor commitments, robust financial markets, timely interactions with governmental planning authorities, [tariff law changes](#), and various other considerations. With numerous disruptions caused by the COVID-19 pandemic and various other challenges, it is incredibly challenging to determine if, and to what extent, renewable energy procurement opportunities may be compromised, particularly new-build renewable energy projects which typically rely on long-term contracts as the basis for project financing. SDCP will closely monitor energy usage patterns to determine if any planning adjustments may be necessary based on current and expected economic conditions.

SDCP intends to closely monitor this situation as well as potential fallout related to supplier/developer effectiveness in fulfilling mandated renewable energy needs, project completion and overall supplier viability. SDCP is aware that many supply chains have been disrupted during the pandemic with a variety of material/component shortages occurring throughout the industry. Moreover, recent concerns regarding the application of tariffs on certain imported renewable infrastructure have also provoked certain supplier to request “reopening” of

previously executed contracts and/or the negotiation of terms that allow for price adjustments in the event of unexpected costs (such as the noted tariff). ~~While the tariff issue seems to be temporarily resolved,~~ Concerns of this nature have introduced a measure of instability in the long-term contracting efforts of many retail sellers. With these concerns in mind, SDCP encourages the Commission to closely monitor and potentially reconsider certain elements of the RPS Program as this situation evolves, particularly if there are widespread, well-documented challenges as California retail sellers attempt to fulfill pertinent procurement requirements. Relatedly, SDCP is aware of numerous instances in which contract documents are being drafted with more expansive force majeure language to alleviate the concerns of sellers/developers in meeting project completion schedules due to potential pandemic-related delays – “day for day” commercial operation date extensions have been pursued, ~~creating flexibility in achieving commercial operation date targets based on the duration of shelter in place directives~~. From SDCP’s perspective, buyers must be diligent in contracting efforts to strike an appropriate balance between flexibility and certainty. Not all project development delays are expected to be directly attributable to the pandemic, so effectively parsing contractual accommodations for development delays in consideration of this reality should serve to manage uncertainties related to project completion and renewable delivery timelines.

SDCP also encourages the Commission to coordinate closely with the legislature to evaluate potential adaptations to the RPS Program, which may become necessary if renewable energy markets are materially impacted by ~~the pandemic~~ [resource shortages or project delays lingering from 2020-2023 impacts](#). With rapidly changing circumstances and related information, SDCP anticipates the need for considerable flexibility/agility in working to meet requisite renewable energy procurement mandates. In the meantime, SDCP will remain hopeful

that impacts to renewable energy markets will not compromise California’s ability to reach its renewable energy procurement goals or its own, internally established renewable procurement targets.

## VII. Risk Assessment

### Compliance Risk

An important element of SDCP’s RPS risk assessment process is determining potential vulnerabilities related to procurement and/or delivery shortfalls that could trigger deficits relative to SDCP’s anticipated compliance obligations. Considering SDCP’s internally adopted renewable energy procurement targets and existing contractual commitments, this risk, as internally determined by SDCP, appears to be very low in Compliance Period 4 and beyond.

As discussed elsewhere in this planning document, SDCP has established a VmoP and, further, a MMoP that inform RPS procurement efforts and insure against compliance-related shortfalls.

~~A recent email communication from CPUC staff supports this assessment.~~ More specifically, SDCP received a letter from the CPUC’s Deputy Executive Director for Energy and Climate Policy on December 9, 2022, which provided an assessment of the perceived RPS compliance risk for Compliance Period 4 (calendar years 2021 through 2024). SDCP’s risk level was categorized as low within this assessment letter, which was based on information included in SDCP’s 2021 RPS Compliance Reports, as submitted in the summer of 2022.

~~While SDCP received a letter indicating it has been assessed as being at low risk of compliance shortfalls, SDCP has meaningfully increased its RPS procurement since submittal of its 2021 RPS Compliance Report via acceptance of its VAMO allocations. As such, SDCP further~~ understands that it is not at risk of failing to meet its Compliance Period 2021-2024 RPS long-term procurement and RPS procurement quantity requirements. ~~Again,~~ SDCP believes



that its internally adopted renewable energy procurement targets (reflective of its VmoP and, further, its MMoP), which meaningfully exceed RPS mandates, as well as existing contractual commitments, ~~including long-term VAMO volumes that are expected to bolster overall renewable energy procurement levels relative to those reflected in SDCP's 2021 RPS Compliance Report~~, leave SDCP very well positioned to meet its ongoing RPS compliance obligations. If anything happens to change in terms of SDCP's internal assessment of RPS compliance risk, it will inform the CPUC accordingly in a future RPS Procurement Plan.

#### Risk Modeling and Risk Factors

SDCP makes reasonable efforts to minimize the risk of renewable procurement shortfalls for purposes of complying with applicable RPS mandates established in SB 100, but it cannot definitively predict the scope or magnitude of circumstances that may impact annual retail energy sales, renewable energy markets, or individual project performance. With this in mind, SDCP responsibly assesses RPS compliance risk by considering three key planning elements: 1) retail sales variability; 2) renewable energy production/delivery variability; and 3) impacts to overall system reliability associated with SDCP's planned RPS purchases and other influences. These topics are generally considered in the noted sequence with observed risks informing potential adaptations to SDCP's planning process, potential adaptations to planning reserves and, ultimately, refinements to SDCP's renewable energy procurement (or sales) processes and quantities. As described elsewhere in this RPS Procurement Plan, SDCP's previously executed renewable supply contracts, current negotiating efforts, ~~VAMO allocations~~, and ~~upcoming~~ ongoing procurement processes will place the organization in a strong position to meet applicable RPS compliance requirements in Compliance Period 4 and beyond. Therefore, SDCP's self-determined risk of non-compliance is low. Nevertheless, SDCP continues to assess

demand-side and supply-side risks to better understand potential areas of concern and to promote achievement of organizational compliance objectives.

Regarding demand-side risk, SDCP continues to evaluate and update prospective retail sales related to its evolving customer base and trailing 10-year planning period, including but not limited to anticipated changes related to customer eligibility, new development projects (that could increase retail energy consumption), ~~and~~ business closures, expected customer attrition (or growth) and changes to behind-the-meter generating capacity. From a practical perspective, the greatest demand-side risk with regard to SDCP's anticipated customer base is that retail sales are meaningfully higher than anticipated during Compliance Period 4. As the Commission is aware, CCAs provide an opportunity for customer choice, allowing customers to voluntarily participate in SDCP's program or remain bundled customers of the incumbent utility, SDG&E. To the extent that customers choose to leave SDCP's CCA program, or "opt out", SDCP's retail sales will decrease, resulting in related increases to the ratio of renewable energy serving such customers (and improving SDCP's position relative to applicable RPS compliance mandates). It is unlikely that SDCP's renewable supply commitments will provide volumetric flexibility/options in the event of higher-than-anticipated retail sales volumes; in such instances, SDCP would need to pursue additional procurement opportunities to address unanticipated open positions. ~~Thankfully, short term RPS procurement opportunities seem to be readily available (to the extent such supply is necessary to augment long term commitments) and available long term RPS allocations under VAMO offered a viable option in the absence of other long term contracting opportunities.~~ Because SDCP's anticipated participation rates are based on the well-documented experience of California's other operational CCA programs, the organization is confident that actual retail sales will be reasonably well aligned with related forecasts.

Considering SDCP's ongoing coordination with member municipalities and associated planning departments, SDCP expects to be well informed regarding upcoming development projects or other customer changes that could materially increase retail sales. For this reason, SDCP believes that demand-side RPS compliance risk is low.

Regarding supply-side risks, SDCP is aware of the generation variability/intermittency associated with certain renewable technologies as well as the possibility of curtailment (based on pricing considerations or market directives) during certain times of day/year. In the case of new-build renewable projects, SDCP is also aware of the possibility of project delays and, potentially, project failure. Such circumstances can materially diminish renewable energy deliveries, jeopardizing the achievement of RPS compliance and exposing the organization to unexpected financial consequences. This noted, a primary objective of the SDCP's CCA program is offering participating customers stable and competitive retail generation rates, so the organization must balance generalized over-purchasing of certain compliance products, including RPS-eligible renewable energy, with related budgetary impacts. In its RPS planning process, SDCP has considered such impacts as well as previous procurement practices ~~observed by successful California CCAs~~, which have satisfied applicable compliance mandates reflected in California's RPS program. ~~CCAs are exposed to considerable compliance risk at the time of, and in the few years immediately following, program launch, as load variability is generally highest during this period of time and organizational creditworthiness is generally weakest (due to the considerable costs associated with CCA implementation, the timing related to program expenditures and revenue receipts, and the methodical pace at which financial reserves are typically accrued during early stage operations). To the best of SDCP's knowledge, few early stage CCAs have experienced difficulties with generalized renewable energy procurement, but long term RPS~~

~~contracting has been more challenging~~—Long-term RPS procurement typical lead times (between contract execution and project completion) associated with new-build renewable energy projects are often 2-3 years or longer ~~, and related power supply~~It is becoming more common-place that contracting efforts are ~~rarely~~-initiated ~~so far in~~further in advance of service commencement than was the norm. With this observation in mind, ~~early-stage CCAs~~SDCP must either: 1) focus RPS contracting efforts on existing renewable generating resources; or 2) accept failure/delay risks associated with new-build renewable projects placed under contract ~~near the time of CCA launch~~ by incorporating reasonable planning reserves to mitigate such risks. SDCP's VAMO allocation elections, however, serve as a mitigating factor when considering long-term RPS compliance risk, as the typical lead time associated with new-build renewable generating projects does not apply to these deliveries (which ~~would be~~in occurring in 2023<sup>2</sup>). In the case of SDCP, a balanced approach has been pursued, which has entailed contracting efforts focused on both existing and new renewable generating resources, thereby minimizing, but not eliminating, risks associated with compliance shortfalls. With SDCP's ~~planned~~ expansion in 2023, resource planning and procurement efforts ~~have been~~were focused on addressing known increases in the organization's RPS needs, particularly long-term RPS needs. Prior to its ~~upcoming~~ expansion activities, SDCP expected to have a long-term RPS surplus in CP4, ~~but this situation has now changed~~. SDCP elected to receive 100 percent of available long-term VAMO allocations, and MO awards, to help satisfy this compliance mandate. Regardless of the eventual long-term contracting opportunities that may be pursued by SDCP, the organization intends to pursue contract volumes in sufficient quantity to accommodate one or more project failures amongst SDCP's currently executed contracts and upcoming contract opportunities. SDCP has evaluated volumetric risk (due to project delays and/or under

performance) in its updated risk assessment, as further described below, and has accounted for such impacts within Appendix C.

SDCP also anticipates mitigating supply-side risk by incorporating fixed-volume and index-plus pricing structures amongst its portfolio of RPS supply agreements. These procurement mechanisms serve to mitigate the risk of delivery variability (typically associated with intermittent renewable resources and/or renewable resources that may be subject to periodic curtailment) and exposure to negative market pricing (which could prompt economic curtailment). Fixed volume arrangements, in particular, also mitigate risk associated with commercial operation delays and facility failure; these structures also provide buyers with financial protections (via penalty payments) for under-delivery (which could be used, as a last resort, to offset compliance penalties in the event that the supplier or SDCP are unable to identify replacement volumes).

As part of SDCP's approach to managing supply-side risk, it has also adopted what it believes to be a CCA best practice related to RPS contracting: structuring ~~early stage~~ solicitations to identify proven renewable generating technologies in prime resource locations to be developed and/or operated by the most experienced available suppliers (with strong, well-documented track records of successful project completion and operational reliability). ~~Unlike certain of the IOU's early stage contracting efforts, which focused on experimental/unproven renewable generating technologies, CCAs have generally focused early stage contracting efforts on tried and true technologies and highly experienced counterparties—SDCP intends to follow this practice as well.~~ When evaluating prospective renewable energy supply opportunities, SDCP will seek to minimize the risk of delivery failure (or shortfalls) by pursuing supply arrangements with such experienced and financially stable suppliers that have demonstrated

successful track records. This noted, there is always a possibility that future renewable energy supply will not be delivered as required, which is why SDCP intends to periodically evaluate the sufficiency of currently anticipated renewable energy procurement targets in meeting both statutory mandates and prudent planning reserve levels. Given SDCP's initial commitment to providing a minimum 50 percent renewable default service to participating customers, it seems highly unlikely that cumulative renewable energy delivery shortfalls could result in compliance deficiencies. While other CCA programs may choose to pursue differing planning reserve targets, SDCP observes that there does not seem to be a clear standard or related guidelines for setting such metrics and believes that its anticipated, internally defined renewable energy targets provide sufficient planning reserves.

Following contract execution, SDCP staff will closely coordinate with its suppliers, particularly developers of any new-build resource, to maintain an acute awareness of project development progress, including any anticipated issues that could delay expected initial deliveries or compromise overall project viability. Such communications are intended to provide SDCP with an early indication of such issues, which would allow "corrective procurement actions" to occur if the extent of such issues were determined to impact SDCP's RPS compliance status.

In terms of system and resource reliability, SDCP has adopted a procurement approach that intends to emphasize resource and contractual diversity. This process is expected to contribute to the identification of renewable generating resources that should positively impact system reliability over time.

SDCP will consider this potential risk of generation variability during its resource planning process and related procurement/contracting efforts and may pursue contract structures

that promote volumetric stability through the application of firm delivery quantities and/or performance guarantees that provide financial remedies/penalties in the event of delivery shortfalls. If necessary, the application of such penalties could be used: 1) as a first priority, to procure additional renewable energy supply to address delivery shortfalls; or 2) in the event of a determination of non-compliance, to offset the cost of related penalties. SDCP's intent is to achieve and maintain compliance with applicable RPS mandates, and the latter option is a last resort that is not expected to apply.

In addition to the previously described considerations, SDCP utilizes a quantitative risk assessment that quantifies the energy impacts related to supply side losses. This approach organizes prospective risks into three general categories which pose the greatest supply-side impacts to the delivery of expected RPS energy: 1) curtailment risk; 2) counterparty risk; and 3) project cancellation risk.

As part of its quantitative risk assessment, SDCP examines hourly forward-looking data that could lead to curtailment risk, specifically the likelihood that an hour within the forward market exhibits pricing that falls below negative \$15/MWh ~~beginning in 2022~~ through the expiration of each contract. Below this dollar amount, SDCP is presumed to be better off financially if it were to curtail the affected generating unit and, as a substitute for such curtailment, purchase additional renewable energy credits on the open market. Considering SDCP's current long-term renewable energy positions, a reduction in long-term RPS volumes due to curtailment could, potentially, compromise the prospect of RPS compliance. The figures presented in the column quantifying curtailment risk are calculated by quantifying the volume of expected energy deliveries and multiplying such volume by the likelihood of curtailment. *Based on SDCP's assessment of curtailment risk associated with its renewable energy contract*

*portfolio, this risk category was assigned a rating of low.*

Counterparty risk is the risk posed by a counterparty being unable or unwilling to honor its total RPS delivery obligations, as reflected in related contract documents. SDCP has quantified this likelihood by considering S&P Global's, Global Corporate Annual Default Rates by Rating Category (%) as a measure of organizational viability and financial stability. While this rate considers industries beyond the energy sector, it provides relevant insights into the correlation and potential impacts of dealing with uncreditworthy counterparties. The likelihood of default by credit rating was averaged over the years from 2014 to 2019. These years were chosen to remove irregularities in default rates during the Covid-19 pandemic. If a counterparty was found to be unrated, then the contract was reviewed to identify specified credit assurances; based on such assurances, an approximate rating was derived based on SDCP's experience and risk tolerance. *Based on SDCP's assessment of counterparty risk associated with its renewable energy contract portfolio, this risk category was assigned a rating of low.*

The final category reflected in SDCP's analysis is project/contract cancellation risk. This category is distinct from counterparty risk because the risk of project/contract cancellation may only affect a single project under a counterparty's portfolio. Projects may be cancelled for a variety of reasons, ~~but in today's market, deals struck many months ago may no longer be economic for the seller.~~ This risk only effects single source projects which have yet to be constructed. These projects were chosen because they have a single point of failure unlike RPS energy purchased from a pool of resources (under a portfolio-style purchase agreement in which there is generally more diversity amongst the sources of supply). Based on discussions with various counterparties, other load serving entities and its own experience, SDCP has assessed that this risk effects roughly 1 in 20 deals. *Based on SDCP's assessment of project*



*failure/contract cancellation risk associated with its renewable energy contract portfolio, this risk category was assigned a rating of low.*

Considering these categories holistically, SDCP was able to derive a cumulative energy percentage at risk. In consideration of SDCP's relatively conservative risk tolerances, a top-level risk of non-delivery offset at 0.25% of renewable energy procurements was added to the calculated energy at risk percentage. This adder will help to account for risks that SDCP cannot foresee and will help to guarantee the sufficiency of SDCP's planned RPS purchases in meeting both compliance-related and internally adopted renewable energy procurement targets. The percentage of renewable energy is the percentage of total renewable energy procured that was determined to be at risk, while the percentage of retail load is the energy at risk as a percentage of retail load. These "at risk" percentages reflect possible losses which, through no fault of SDCP, may occur by virtue of being a market participant. These losses pose a risk for non-compliance relative to SDCP's RPS goals and targets. Since this number is not a guaranteed loss, SDCP will implement the previously mentioned mitigation strategies to give the greatest chance of meeting its adopted renewable energy procurement targets.

ID	Contract	RPS Contract ID	Energy to be Delivered to Market (MWh)	Curtailment Risk (MWh)	Counterparty Risk (MWh)	Project Cancellation Risk (MWh)
1	Contract 2608	SDCP90001	780,000	-	265	-
2	Contract 2811	SDCP90002	100,000	-	-	-
3	Contract 2821	SDCP50003	2,462,130	5,820	47,322	-
4	Contract 2964	SDCP50005	4,299,960	10,164	82,645	-
5	Contract 2990	SDCP50004	5,151,236	12,176	99,007	-
6	Contract 3017	SDCP90008	135,000	-	-	-
7	Contract 3018	SDCP90008	35,000	-	-	-
8	Contract 3048	SDCP90011	100,000	-	142	-
9	Contract 3049	SDCP90010	165,000	-	3,171	-
10	Contract 3103	SDCP90014	75,000	-	-	-
11	Contract 3193	SDCP70015	75,000	177	26	-
12	Contract 3555	SDCP90017	7,670,000	18,130	-	-
13	Contract 3590	SDCP70019	1,707,630	4,036	32,821	-
14	Contract 3758	SDCP90020	25,000	-	9	-
15	Contract 3760	SDCP90018	300,000	-	-	-
16	Contract 3761	SDCP90018	50,000	-	-	-
17	Contract 3838	SDCP20021	244,788	-	83	-
<b>Total</b>			<b>23,375,744</b>	<b>50,504</b>	<b>265,491</b>	<b>-</b>

#### Energy

<b>Total Renewable Energy</b>	<b>23,375,744</b>
<b>Total Renewable Energy at Risk</b>	<b>315,994</b>
<b>Pct of Renewable Energy at Risk</b>	<b>1.35%</b>
<b>Pct of Unknown Error at Risk</b>	<b>0.25%</b>
<b>Pct of Renewable Energy &amp; Error at Risk</b>	<b>1.60%</b>
<b>Pct of Retail Load</b>	<b>0.40%</b>

Based on SDCP's analysis, SDCP determined that 1.35 percent of SDCP's expected future RPS deliveries may be at risk, which equates to 0.40 percent of SDCP's retail load. These percentages reflect average risk throughout the study period, which suggests that actual risk could fall somewhat above or below these percentages. Regardless, the potential risk-related impacts to SDCP's RPS supply portfolio fall well below the ten percent MMoP reflected in its RPS planning process. *In consideration of the results of SDCP's risk analysis, the composite risk assessment, which considers all three of the previously described risk categories, results in an overall risk rating of low.*

As previously noted, SDCP adopted an ERM Policy at the meeting of its governing board on June 25, 2020. In accordance with SDCP's ERM Policy, these risk analyses/assessments are shared and reviewed with SDCP's ROC. If SDCP's internally adopted planning targets and related procurement efforts prove to be insufficient in meeting near-term RPS compliance targets, SDCP will bring such findings to the attention of its ROC and pursue suitable resolutions and mitigation measures under the oversight of the committee.

SDCP's is actively monitoring milestone completion for new-build renewable projects that have yet to achieve commercial operation with the goal of promoting timely project completion and initial deliveries to ensure that SDCP meets applicable compliance mandates during CP4 and beyond. To the extent that SDCP observes issues related to key milestone completion, it will accordingly adjust anticipated renewable energy deliveries to account for the prospect of RPS shortfalls (even though such shortfalls are unlikely to present compliance issues, due to the relatively high renewable energy content reflected in SDCP's default retail service offering).

#### System Reliability

With respect to system reliability, SDCP is aware of the need to pursue a portfolio of renewable resources with diverse and complementary delivery profiles as well as complimentary infrastructure (namely, energy storage infrastructure) that will support the reshaping of renewable energy deliveries to better align with load. For example, renewable energy procurement efforts that may initially focus on relatively low-cost solar resources will often necessitate subsequent investments in co-located energy storage infrastructure and/or higher-cost baseload renewable generating technologies, such as those using geothermal, biomass and landfill gas fuel sources. These baseload renewable technologies are often priced at three-to-four

times the level of in-state photovoltaic solar generation but generally provide increased capacity value (due to the more predictable, baseload generating profiles of such resources) and related reliability enhancements. To date, in pursuit of a balanced portfolio that ensures reliable renewable energy supply, SDCP has contracted with three solar resources, all of which are hybridized or co-located with battery storage (although SDCP does not receive the output or capacity attributes of the IP Oberon energy storage system), a wind generating facility which has a generation profile that is complementary to the solar and in-state wind generation shapes, and is actively negotiating with or soliciting offers for additional hybrid renewable resources, stand-alone storage facilities, and “clean firm” renewable resources. Going forward, SDCP will continue to balance these competing portfolio management interests to support reasonably close alignment between supply and demand (reducing the need for pronounced resource ramping on the system), cost-effective procurement and overall grid reliability. SDCP is aware that low-cost, long-term solutions are challenging to identify at this time, but it will remain committed to pursuing a conscientious planning process that balances grid reliability, compliance demonstration and customer cost impacts. SDCP is willing to engage in discussions with SDG&E and the California Independent System Operator regarding reliability and other system impacts related to its portfolio. SDCP is further willing to consider the feedback provided by the organizations in its planning and procurement processes going forward, so long as such suggestions generally conform with organizational objectives and Board-adopted policies. *In consideration of SDCP’s diverse contractual commitments for requisite renewable energy supply and ongoing focus on the identification of RPS-eligible and complementary technologies that will mitigate reliability impacts associated with increased use of intermittent generating resources throughout the state, overall risks to system reliability associated with SDCP’s RPS*

*Procurement Plan were determined to be low.*

### Lessons Learned

In terms of lessons learned related to risk management, SDCP observes that internally adopted, above-RPS planning targets generally serve as effective mitigation measures related to RPS compliance. This approach seems to be supported by SDCP's low risk categorization from the compliance risk assessment letter from the CPUC, especially given SDCP has since meaningfully increased its RPS procurement via acceptance of its VAMO allocations. SDCP will, however, continue to evaluate the sufficiency of its adopted planning reserves (MMoP) to reduce the risk of RPS compliance shortfalls. If future RPS contracting activities impose larger than anticipated risks (on project failure and/or under-delivery), SDCP may increase its noted planning reserve to provide additional protection against such risks. The extent to which such adjustments may occur is not known at this time but will be discussed, as necessary, in a future RPS Procurement Plan.

SDCP has also observed the value of resource diversity across a broad spectrum of considerations, including resource location, generating technology, suppliers/developers and contract structures, amongst other concerns. Long-term renewable supply commitments are inherently risky in the sense that such commitments expose the buyer and/or seller to a variety of unknown circumstances, including but not limited to evolving market prices and policy changes. Throughout a long-term contract relationship, it seems evident that areas with initially low levels of negative pricing (and related curtailment of energy production) can materially change as new project development activity occurs, creating (or exacerbating) conditions of over-supply and related incidents of energy curtailment. This risk is particularly challenging to manage, as California's escalating RPS procurement mandates necessitate ongoing investment in new

renewable generating infrastructure, which is often sited in resource-rich areas that become saturated with similar generating technologies (and related delivery profiles). These circumstances seem inevitable and, over the course of a long-term supply relationship, may expose the contracted parties to unexpected risks, including negative prices (and related budgetary impacts) and curtailed deliveries (which may compromise the fulfillment of mandated procurement targets by the buyer). Again, SDCP will periodically reevaluate its current renewable energy planning reserve to address anticipated curtailment and/or underperformance risk to the extent that such concerns are pertinent to SDCP's renewable contract portfolio.

SDCP is also aware that risk can be diversified through various contract structures. For example, an "index-plus" pricing structure is useful in transferring nodal/market price risk to the seller – in such structures, the buyer pays a fixed renewable premium, while the seller assumes risk associated with market price fluctuations but also receives market revenues (which could be higher or lower than anticipated) – even though the buyer receives the energy, renewable attribute and (in certain instances) capacity value as part of such a transaction, the buyer's financial risk is generally limited to the payment of the renewable premium. For buyers who are averse to market price risk, the index-plus pricing structure effectively eliminates this concern but may result in higher overall contract costs (which may be acceptable, as a form of insurance, to mitigate market price exposure). In other structures, such as the "fixed-price" or "aggregate pricing" structure, the renewable energy premium and energy commodity (and oftentimes, capacity value) are reflected in a single price paid by the buyer – this structure deliberately allocates market price risk to the buyer, but the buyer may also pay a lower imputed renewable premium in instances where market revenues (realized when the energy commodity is delivered to the grid) closely approximates (or exceeds) the aggregate renewable energy price. SDCP has

pursued both pricing structures as part of its portfolio diversification and risk management strategies, attempting to balance risk across a broad range of considerations. Any changes to this approach will be articulated in future iterations of the RPS procurement planning process.

### **VIII. Renewable Net Short Calculation**

SDCP has provided a quantitative assessment to support the qualitative descriptions provided in this RPS Procurement Plan, which is attached as Appendix C. At this point in time and based on SDCP's initial renewable energy contracting efforts, certain risk-related adjustments have been incorporated in Appendix C, as described above. More specifically, SDCP previously described (above, in Section VII, Risk Assessment) its quantitative risk assessment methodology and the results of such analysis, which suggested that 1.35% of future renewable energy deliveries were at risk, meaning that SDCP reasonably anticipates that this portion of expected renewable energy deliveries will not be received. This determination was based on an assessment of the risk categories reflected in SDCP's analysis, which included: 1) curtailment risk; 2) counterparty risk; and 3) project failure/contract cancellation risk. In an effort to impute further conservatism in its risk management process (to mitigate against the prospect of compliance shortfalls), SDCP increased the 1.35% figure derived through its risk assessment to a full 2.00% delivery failure rate when preparing its Renewable Net Short calculations; this figure can be in rows 14 and 16 of the RNS reporting template. Such an (upward) adjustment was deemed appropriate to insure against unexpected renewable energy delivery shortfalls that could not be reasonably quantified through the aforementioned assessment. Also note that SDCP increased its forecasted failure rate for RPS Facilities in Development to 27% in 2023, an adjustment that was intended to reflect anticipated operational delays and resultant delivery shortfalls based on correspondence received from project

developers with which SDCP has entered into long-term RPS contracts. If such adjustments are deemed insufficient in the future, based on regular project development status updates, the results of a future SDCP risk assessment (using the methodology described above) or other information, SDCP will update such adjustments in a future planning document based on information specifically related to each contracting opportunity subsumed in Appendix C.

SDCP successfully procured nearly ~~58~~56% of its total resource needs (PowerOn portfolio, plus Power100 portfolio) from RPS-eligible renewable resources since 2021 and, as a result, is ~~beginning to now accrue~~accruing renewable energy quantities in excess of applicable statewide mandates. Renewable suppliers have generally performed as expected, so the noted failure rates that are reflected in Exhibit C (set at two percent in future years) are in excess of the findings reflected in SDCP's previously described risk assessment, which indicate that 1.35 percent of such supply may be at risk. If supplier performance becomes more erratic in the future and adjustments to these assumptions are deemed necessary, SDCP will reflect such adjustments in a future planning document.

#### **IX. Minimum Margin of Procurement (MMoP)**

SDCP is developing an electricity supply portfolio that will further the achievement of state mandates as well as internally adopted goals for increasing RPS-eligible renewable energy supply over time. The following table displays SDCP's intended margin of RPS over-procurement based on the differential between the SB 100 procurement targets and SDCP's internally adopted RPS procurement targets. This table reflects SDCP's voluntary margin of over-procurement, or VmoP.

#### **State & Internally Adopted Renewable Energy Requirements**



	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SB 100 RPS Procurement Requirement (% of Retail Sales)	38.5%	41.3%	44.0%	46.7%	49.3%	52.0%	54.7%	57.3%	60.0%	60.0%	60.0%
SDCP's Minimum Internally Adopted RPS Procurement Target (% of Retail Sales)	54.2%	58.3%	62.5%	66.7%	70.8%	75.0%	78.3%	81.7%	85.0%	88.0%	91.0%
SDCP's Voluntary Margin of Over-Procurement (% of Retail Sales)	15.7%	17.1%	18.5%	20.0%	21.5%	23.0%	23.7%	24.3%	25.0%	28.0%	31.0%

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
SB 100 RPS Procurement Requirement (% of Retail Sales)	38.5	41.3	44.0	46.7	49.3	52.0	54.7	57.3	60.0	60.0	60.0	60.0
SDCP's Minimum Internally Adopted RPS Procurement Target	54.2	58.3	62.5	66.7	70.8	75.0	78.3	81.7	85.0	88.0	91.0	94.0
SDCP's Voluntary Margin Over-Procurement (% of Retail Sales)	15.7	17.1	18.5	20.0	21.5	23.0	23.7	24.3	25.0	28.0	31.0	34.0

As reflected in the previous table, SDCP's RPS-eligible renewable energy target was set at a minimum 50 percent in 2021, increasing steadily to 75 percent by 2027 and to ~~100~~85 percent by 203~~5~~0. SDCP's internally adopted renewable energy procurement targets are intended to support SDCP's broader goal of providing a minimum 90% carbon-free electricity to all customers by 2030. SDCP's internally adopted minimum renewable energy procurement goals ensure a significant margin of procurement above the SB 100 mandates. SDCP's internally adopted renewable energy procurement goals provide a meaningful buffer above the state's RPS requirements and serve as SDCP's VmoP – SDCP's VmoP will minimally exceed statewide RPS mandates by at least 15 percent (relative to retail sales), increasing in each year through 203~~2~~5.

To address RPS compliance risk, SDCP uses its risk assessments, including its renewable net short calculations, to establish a Minimum Margin of Procurement to guide RPS compliance procurement planning. SDCP calculated the minimum margin of procurement, or MMoP, using a 10% risk adjustment (or planning reserve) that was applied to SDCP's minimum internally adopted RPS procurement target (see row 2 in the previous table), which is reflective of the renewable content offered through SDCP's default retail service offering,

PowerOn. On a voluntary basis, SDCP customers may enroll in SDCP’s 100% renewable energy service offering, Power100 – customer participation in this program increases SDCP’s overall renewable energy need but also provides an enhanced procurement buffer relative to applicable compliance mandates. This noted, SDCP does not include/rely on additional renewable energy volumes required to serve Power100 customers in determining its MMoP or VMoP – such incremental renewable energy purchases are additive to SDCP’s MMoP and VMoP (meaning that such volumes are in excess of the additional renewable energy purchases required to meet SDCP’s MMoP and VMoP). Based on the manner in which SDCP has established its MMoP, as a 10% planning risk adjustment relative to total PowerOn renewable energy requirements, the effective MMoP percentages observed by SDCP are approximately 14%-15%, relative to SDCP’s projected RPS compliance need, for each year through 2032.

The following chart provides additional detail regarding the effective MMoP percentages observed by SDCP.

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
<b>SB 100 RPS Procurement Requirement (% of Retail Sales)</b>	38.5%	41.3%	44.0%	46.7%	49.3%	52.0%	54.7%	57.3%	60.0%	60.0%	60.0%
<b>SDCP's Minimum Internally Adopted RPS Procurement Target (% of Retail Sales)</b>	54.2%	58.3%	62.5%	66.7%	70.8%	75.0%	78.3%	81.7%	85.0%	88.0%	91.0%
<b>SDCP's RPS Planning Risk Adjustment (at 10% of Minimum Internally Adopted RPS Target)</b>	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
<b>SDCP's Minimum Margin of Over-Procurement (% of Retail Sales)</b>	5.4%	5.8%	6.3%	6.7%	7.1%	7.5%	7.8%	8.2%	8.5%	8.8%	9.1%
<b>SDCP's Minimum Margin of Over-Procurement (% buffer relative to RPS Mandate)</b>	14.1%	14.1%	14.2%	14.3%	14.4%	14.4%	14.3%	14.2%	14.2%	14.7%	15.2%

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b><u>SB 100 RPS Procurement Requirement (% of Retail Sales)</u></b>	<u>38.5</u>	<u>41.3</u>	<u>44.0</u>	<u>46.7</u>	<u>49.3</u>	<u>52.0</u>	<u>54.7</u>	<u>57.3</u>	<u>60.0</u>	<u>60.0</u>	<u>60.0</u>	<u>60.0</u>
<b><u>SDCP's Minimum Internally Adopted RPS Procurement Target</u></b>	<u>54.2</u>	<u>58.3</u>	<u>62.5</u>	<u>66.7</u>	<u>70.8</u>	<u>75.0</u>	<u>78.3</u>	<u>81.7</u>	<u>85.0</u>	<u>88.0</u>	<u>91.0</u>	<u>94.0</u>
<b><u>SDCP's RPS Planning Risk Adjustment (at 10% of Minimum Internally Adopted RPS Target)</u></b>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>
<b><u>SDCP's Minimum Margin of Over-Procurement (% of Retail Sales)</u></b>	<u>5.4</u>	<u>5.8</u>	<u>6.3</u>	<u>6.7</u>	<u>7.1</u>	<u>7.5</u>	<u>7.8</u>	<u>8.2</u>	<u>8.5</u>	<u>8.8</u>	<u>9.1</u>	<u>9.4</u>
<b><u>SDCP's Minimum Margin of Over-Procurement (% buffer relative to RPS Mandate)</u></b>	<u>14.1</u>	<u>14.1</u>	<u>14.2</u>	<u>14.3</u>	<u>14.4</u>	<u>14.4</u>	<u>14.3</u>	<u>14.2</u>	<u>14.2</u>	<u>14.7</u>	<u>15.2</u>	<u>15.7</u>

SDCP's MMoP is intended to address potential delivery variability for intermittent resources, curtailment risk, project delays (or failures) and other operational peculiarities that may cause actual renewable energy deliveries to deviate from projections. Note that certain of SDCP's renewable energy deliveries are not subject to variability – such agreements reflect minimum fixed delivery quantities (or quantities with limited volumetric variability) with corresponding financial penalties (paid to SDCP by related sellers in the event of delivery shortfalls). ~~Beginning in 2022,~~ SDCP ~~will have~~has limited exposure to resource intermittency via its long-term renewable supply agreement with Duran Mesa, LLC. Other sources of exposure will occur as other contracts come online in 2023 and beyond and have been accounted for in SDCP's previously described risk assessment.

If SDCP adopts changes to its future renewable energy content/offerings, future RPS procurement planning documents will be updated accordingly. Staff assumes that future renewable procurement targets (inclusive of planning reserves necessary to meet RPS mandates) will consider a variety of factors, including but not limited to, the operational status of prospective renewable energy facilities to be placed under contract, the experience and general development track record of each project development team (associated with new resources), resource size (capacity), the location of prospective generating resources (for new facilities) and impacts of over-procurement to the CCA program's procurement budget and customer rates – certain of these factors are appropriately considered in SDCP's quantitative risk assessment.

#### **IX.A. MMoP Methodology and Inputs**

SDCP's MMoP is intended to address an RPS failure rate at or above that which is reflected in the renewable net short reporting template. In the event of contract under-deliveries,

commercial operation delays and/or project failures, the MMoP should be sufficient to ensure SDCP is compliant with the RPS procurement requirements. SDCP’s VMoP is the annual RPS-eligible minimum portfolio content identified in SDCP’s internally adopted planning targets.

As discussed in Section VIII, SDCP has incorporated risk adjustments to certain renewable energy delivery estimates associated with existing generating facilities (due to increased fire risk throughout the state of California and the potential for related delivery reductions; delivery intermittency is also subsumed in prescribed risk adjustments) and resources that are under development. Achieving SDCP’s MMoP necessitates higher levels of renewable energy procurement (approximately 14% over SDCP’s annual RPS compliance needs for each year through 2032<sup>23</sup>), which accommodate the potential for delivery shortfalls (due to a variety of circumstances) while still allowing SDCP to meet prescribed RPS mandates. Considered in concert, SDCP’s VMoP, which ranges from 15.7% to 34.0% over the planning period, and MMoP provide a substantial aggregate renewable energy planning buffer, which increases from 21.1% in 2022 to 43.41% in 2032<sup>22</sup>, relative to applicable compliance mandates., as reflected in the following table.

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SB 100 RPS Procurement Requirement (% of Retail Sales)	38.5%	41.3%	44.0%	46.7%	49.3%	52.0%	54.7%	57.3%	60.0%	60.0%	60.0%
SDCP's Minimum Internally Adopted RPS Procurement Target (% of Retail Sales)	54.2%	58.3%	62.5%	66.7%	70.8%	75.0%	78.3%	81.7%	85.0%	88.0%	91.0%
SDCP's Voluntary Margin of Over-Procurement (% of Retail Sales)	15.7%	17.1%	18.5%	20.0%	21.5%	23.0%	23.7%	24.3%	25.0%	28.0%	31.0%
SDCP's Minimum Margin of Over-Procurement (% of Retail Sales)	5.4%	5.8%	6.3%	6.7%	7.1%	7.5%	7.8%	8.2%	8.5%	8.8%	9.1%
SDCP's Aggregate Margin of Over-Procurement (% of Retail Sales)	21.1%	22.9%	24.8%	26.7%	28.6%	30.5%	31.5%	32.5%	33.5%	36.8%	40.1%

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
SB 100 RPS Procurement Requirement (% of Retail Sales)	38.5	41.3	44.0	46.7	49.3	52.0	54.7	57.3	60.0	60.0	60.0	60.0
SDCP's Minimum Internally Adopted RPS Procurement Target	54.2	58.3	62.5	66.7	70.8	75.0	78.3	81.7	85.0	88.0	91.0	94.0
SDCP's Voluntary Margin Over-Procurement (% of Retail Sales)	15.7	17.1	18.5	20.0	21.5	23.0	23.7	24.3	25.0	28.0	31.0	34.0
SDCP's Minimum Margin of Over-Procurement (% of Retail Sales)	5.4	5.8	6.3	6.7	7.1	7.5	7.8	8.2	8.5	8.8	9.1	9.4

<u>SDCP's Aggregate Margin of Over-Procurement (% of Retail Sales)</u>	<u>21.1</u>	<u>22.9</u>	<u>24.8</u>	<u>26.7</u>	<u>28.6</u>	<u>30.5</u>	<u>31.5</u>	<u>32.5</u>	<u>33.5</u>	<u>36.8</u>	<u>40.1</u>	<u>43.4</u>
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SDCP will effectively ensure its compliance with applicable RPS mandates by procuring in consideration of internal renewable energy goals that meaningfully exceed state-adopted requirements. SDCP currently provides a minimum 50% renewable energy content to all customers as part of its default retail service offering. SDCP's governing board may periodically consider increases to such renewable energy content for purposes of ensuring that SDCP differentiates its supply portfolio from applicable state-mandated renewable content. The extent to which SDCP will exceed statewide RPS mandates will be dependent upon a variety of factors, including RPS product availability, product cost and budgetary impacts and timely product deliveries from generating facilities under contract with SDCP. As SDCP's governing board considers and adopts changes to its internal renewable energy procurement targets, the organization will accordingly update future RPS planning documents to reflect such changes.

### **IX.B. MMoP Scenarios**

SDCP plans to meet the annual program renewable goals reflected in the table presented in Section IX (above), including the MMoPs reflected therein. As reflected in this table, SDCP's anticipated MMoP percentages range from 14.1% in 2022 to 15.72% in 2033~~2.1~~. The renewable net short included in the RNS Quantitative Template also incorporates the additional RPS-eligible renewable energy need resulting from SDCP's VMoP, which reflects its internally adopted renewable energy procurement goal that increases from 50% in 2022 to 85% in 2030~~1~~ and 100% in 2035.

During its bid evaluation and supplier selection processes, SDCP considers a variety of

risks and will explicitly incorporate such risks into its MMoP calculation after related contracting processes are complete and project development progress (for new-build renewable projects) is being tracked by SDCP staff. Based on the information gathered during SDCP's contract management process (which focuses on key milestone achievement and deviations from initial project development schedules for new-build projects), SDCP may adjust expected renewable energy deliveries. To the extent that adjusted future deliveries meaningfully differ from SDCP's previous expectations, additional RPS procurement may be pursued to ensure that SDCP maintains its desired MMoP and related minimum customer delivery commitments.

SDCP will also model demand-side sensitivities that may impact MMoP calculations. This will be particularly important during administration of SDCP's **future** expansion activities, as participation rates are expected to be most volatile during such periods of time. In addition to load variability resulting from customer participation levels, SDCP will also monitor electric vehicle ("EV") penetration rates, net energy metering participation rates and other considerations that may impact overall customer energy requirements and related demand-based MMoP calculations.

## **X. Bid Solicitation Protocol**

### **X.A. Solicitation Protocols for Renewables Sales**

SDCP does not have immediate plans to issue a solicitation for sales of renewable energy products/projects. If such a need arises in the future, however, SDCP will consider a protocol that: 1) ensures that SDCP remains compliant with applicable RPS procurement mandates; 2) minimizes overall portfolio costs to the greatest extent practical; and 3) provides sufficient flexibility to accommodate reasonably anticipated supply-side and demand-side changes that could impact SDCP's overall renewable energy requirements.

## **X.B. Bid Selection Protocols**

Consistent with Public Utilities Code section 399.13(a)(5)(C)<sup>14</sup>, SDCP shall conduct solicitations for requisite energy resources, including specific needs for eligible renewable energy resources (reflecting locational preferences, when applicable, for such resources), generating capacity, and required online dates to assist in determining what resources fit best within its supply portfolio. Since CCA program governing boards are comprised of local elected officials, these solicitation and procurement decisions are overseen by elected representatives of the community. These solicitation and procurement decisions will seek to comply with targets and preferences that are considerate of local priorities and interests. Any new renewable energy supply agreements resulting from ongoing contract negotiations and future solicitation processes will be brought to SDCP's governing board for approval prior to execution.

SDCP's most recent RPS solicitations, [Q4 2022 Long-Term California RPS-Eligible Renewable Energy RFP](#), [Q1 2023 Long-Term California RPS-Eligible Renewable Energy RFP](#), and [Q2 2023 Request for Offers for Standalone Storage](#) are attached as ~~as~~, ~~“San Diego Community Power 2020 Request for Proposals (“RFP”) for Long-Term California RPS-Eligible Renewable Energy” (“RFP”) was issued on June 29, 2020, and is attached to this document as~~ Appendix F. Pursuant to Public Utilities Code 399.13(a)(6)(C),<sup>15</sup> SDCP's RFP included a variety

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<sup>14</sup> Cal. Pub. Util. Code § 399.13(a)(5)(C) (“Standard terms and conditions to be used by all electrical corporations in contracting for eligible renewable energy resources, including performance requirements for renewable generators. A contract for the purchase of electricity generated by an eligible renewable energy resource, at a minimum, shall include the renewable energy credits associated with all electricity generation specified under the contract. The standard terms and conditions shall include the requirement that, no later than six months after the commission’s approval of an electricity purchase agreement entered into pursuant to this article, the following information about the agreement shall be disclosed by the commission: party names, resource type, project location, and project capacity.”).

<sup>15</sup> Cal. Pub. Util. Code § 399.13(a)(6)(C) (“Consistent with the goal of increasing California’s reliance on eligible renewable energy resources, the renewable energy procurement plan shall include all of the following: A bid solicitation setting forth the need for eligible renewable energy resources of each deliverability characteristic, required online dates, and locational preferences, if any.”).

of considerations in related bid solicitation protocols as well as the proposal evaluation and selection process, including:

1. Price and relative value within SDCP's supply portfolio;
2. Project location and benefits to the local economy and workforce;
3. Potential economic benefits created within communities with high levels of poverty and unemployment;
4. Project development status, including but not limited to progress toward interconnection, deliverability, siting, zoning, permitting, and financing requirements;
5. Qualifications, experience developing projects in California and/or with CCAs, financial stability, and structure of the prospective project team (including its ownership);
6. Environmental impacts and related mitigation requirements, including impacts to air pollution within communities that have been disproportionately impacted by the existing generating fleet;
7. Potential impacts to grid reliability;
8. Interconnection status, including queue position, full deliverability of Resource Adequacy capacity, and related study completion, if applicable
9. Acceptance of SDCP's standard contract terms; and
10. Development milestone schedule, if applicable.

~~Based on the success of its initial solicitation(s), SDCP may adapt these considerations to improve success in future renewable energy procurement efforts.~~

SDCP's Inclusive and Sustainable Workforce Policy, adopted January 28, 2021, considers impacts to the local economy and workforce. SDCP will specifically consider "the employment growth associated with the construction and operation of eligible renewable energy resources."<sup>16</sup> More specifically, to the extent SDCP procures new RPS resources in solicitations where qualitative factors are considered, SDCP will include a qualitative assessment of the extent to which proposed project development activities will support this goal. Such determinations will be based on information provided by the prospective supplier and SDCP's

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<sup>16</sup> See *Inclusive and Sustainable Workforce Policy*, adopted January 28, 2021, available at <https://sdcommunitypower.org/resources/meeting-notes/>.



independent assessment of such information. When SDCP procures RPS resources, it will require bidders to submit information on projected California employment growth during construction and operation. This data will include the expected number of hires, duration of hire, and an indication of whether the bidder has entered into Project Labor Agreements or Maintenance Labor Agreements in California for the proposed project.

Pursuant to Public Utilities Code section 366.2(m), Community Choice Aggregators like SDCP are required to annually submit a report to the CPUC, which provides a (1) detailed and verifiable plan for increasing procurement from small, local, and diverse business enterprises; and (2) a report regarding its procurement from women, minority, disabled veteran, and LGBT business enterprises.<sup>17</sup> On March 1, 2023, SDCP submitted its *Supplier Diversity 2022 Annual Report and 2023 Annual Plan* to the Commission in compliance with SB 255 and CPUC General Order (GO) 156.<sup>18</sup> ~~In pursuing these efforts, As outlined in SDCP's most recent report and plan, SDCP continues to is\_ building~~ its Supplier Diversity program which aims to support, to the extent applicable by law, the principles of the CPUC's ~~General Order (GO)~~ 156 by increasing the number of diverse suppliers, including power providers, to SDCP.<sup>19</sup> SDCP maintains a dedicated webpage to promote its Supplier Diversity program, encourage participation, and provide resources for vendors and suppliers.<sup>20</sup>

Pursuant to Public Utilities Code section 399.13(a)(8)(A), SDCP will also consider the inclusion of evaluative preference for “renewable energy projects that provide environmental and economic benefits to communities afflicted with poverty or high unemployment, or that suffer

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<sup>17</sup> See *Supplier Diversity* at <https://www.cpuc.ca.gov/supplierdiversity/>.

<sup>18</sup> See [https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/bco/cca-procurement-reports/2022/sdcp\\_go-156\\_2022-annual-report-and-2023-annual-plan-final-03\\_01\\_2023.pdf](https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/bco/cca-procurement-reports/2022/sdcp_go-156_2022-annual-report-and-2023-annual-plan-final-03_01_2023.pdf).

<sup>19</sup> See Section 11, Page 23 at <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/bco/go-156-d22-04-035.pdf>

<sup>20</sup> See *Supplier Diversity* at <https://sdcommunitypower.org/supplier-diversity/>.

from high emission levels of toxic air contaminants, criteria air pollutants, and greenhouse gases.”<sup>21</sup> To the extent that SDCP procures RPS resources through solicitations where qualitative factors are considered, impact on disadvantaged communities will be considered. Such information will be gathered by requiring prospective suppliers to answer the following questions: Is your facility located in a community afflicted with poverty or high unemployment or that suffers from high emission levels? If so, the participant will be encouraged to describe how its proposed facility can provide the following benefits to adjacent communities:

- Projected hires from adjacent community (number and type of jobs);
- Duration of work (during construction and operation phases);
- Projected direct and indirect economic benefits to the local economy (i.e., payroll, taxes, services);
- Emissions reduction – identify existing generation sources by fuel source within 6 miles of proposed facility and indicate whether the proposed facility will replace/supplant the identified generation sources; and
- To the extent that the proposed generating facility is expected to replace/supplant an existing generating facility, the prospective supplier will be asked to quantify the associated emission impacts of this transition.

These considerations, including others that may be adopted by SDCP’s governing board in future meetings, will be incorporated, as appropriate, in future solicitations administered by the organization.

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<sup>21</sup> Cal. Pub. Util. Code § 399.13(a)(8)(A) (“In soliciting and procuring eligible renewable energy resources for California-based projects, each electrical corporation shall give preference to renewable energy projects that provide environmental and economic benefits to communities afflicted with poverty or high unemployment, or that suffer from high emission levels of toxic air contaminants, criteria air pollutants, and greenhouse gases.”).

## X.C. LCBF Criteria

The Least-Cost Best Fit methodologies approved by the Commission pursuant to D.04-07-029, D.11-04-030, D.12-11-016, D.14-11-042, and D.16-12-044 are expressly only directly applicable to the IOUs and the Commission does not have jurisdiction over the solicitation protocols of CCAs. However, consistent with Public Utilities Code sections 399.13(a)(9), SDCP will consider best-fit attributes that support a balanced mix of resources to help support reliability of the electrical grid.<sup>22</sup>

In particular, SDCP considered “least cost best fit” (“LCBF”) during the evaluation of responses to all of its initial renewable energy solicitations and will continue to do so in future solicitations ~~that will be necessary to fill noted open positions~~. From SDCP’s perspective, use of the term “costs” appropriately includes considerations beyond the basic price of renewable energy. More specifically, costs include a broad range of considerations, such as: 1) reputational damage resulting from failure to meet state-mandated and/or internally established renewable energy procurement targets; 2) compliance penalties resulting from failed project development efforts or delivery shortfalls; 3) administrative complexities related to dealing with inexperienced suppliers (such as prolonged contract negotiation processes and uncertainties related to project milestone timing and achievement); and 4) impacts to planning certainty resulting from higher risk projects. These factors, as well as various others, will continue to be considered by SDCP as components of its cost evaluation process, which may lead to the selection of offers that aren’t necessarily the lowest cost option(s), as expressed on a dollar-per-MWh basis. With regard to “fit”, this aspect of a prospective supply opportunity has as much to do with compatibility

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<sup>22</sup> Cal. Pub. Util. Code § 399.13(a)(9) (“In soliciting and procuring eligible renewable energy resources, each retail seller shall consider the best-fit attributes of resource types that ensure a balanced resource mix to maintain the reliability of the electrical grid.”).

(between SDCP and its suppliers) and alignment with key local objectives as it does with balancing customer usage and expected project deliveries, particularly when considering long-term contracting opportunities that will necessitate a constructive working relationship over a period of ten years or more. SDCP also interprets the term “fit” to mean the general suitability of a project opportunity in promoting grid reliability – while SDCP has no explicit operational or maintenance responsibilities related to the local distribution system serving its customers or the bulk electric system at large, it is aware of the profound importance of supporting grid reliability through its procurement processes. With this in mind, SDCP will make best efforts to balance the demands of California’s rigorous RPS compliance mandates ~~with~~and its interest in promoting such reliability. This is no small task, and SDCP expects that considerations related to grid reliability will be incorporated at each stage of its planning and procurement processes but also acknowledges that the full scope of its RPS contract/resource portfolio (including related impacts to grid reliability) will significantly evolve throughout the organizations operating history. Over time, SDCP expects to thoughtfully assemble a diversified portfolio of RPS contracts/resources that will not only contribute to SDCP’s achievement of applicable compliance mandates but also to improved stability and reliability of California’s electric system. As such, SDCP’s LCBF methodology will consider a broad range of components, including those previously noted, balancing a variety of pertinent considerations at the time each renewable purchase opportunity is being evaluated.

Additionally, the requirement of Section 399.13(a)(8)(A) to give preference to renewable projects located in certain communities is expressly only applicable to “electrical corporations” and is not mandatory for CCAs.<sup>23</sup> However, SDCP recognizes the need to

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<sup>23</sup> Cal. Pub. Util. Code § 399.13(a)(8)(A) (“In soliciting and procuring eligible renewable energy

help mitigate the impacts of air pollution in regions of the state where communities have been disproportionately impacted by the existing generating fleet as well as the need to bring economic benefits to communities with high levels of poverty and unemployment. Consistent with this recognition, SDCP will consider the manner in which air pollution may be impacted during its renewable energy solicitation process(es) and related project selection.

## **XI. Safety Considerations**

San Diego Community Power holds safety as a top priority. Since SDCP does not own, operate, or control generation facilities, SDCP's procurement of renewable resources will not present any unique safety risks. This section describes how SDCP has taken actions to reduce the safety risks that may be posed by its renewable resource portfolio and how SDCP supports the state's environmental, safety, and energy policy goals.

In its procurement efforts, SDCP will consider the extent to which incorporating project safety requirements/risk mitigation requirements is necessary and appropriate in contracting. SDCP has generally included safety terms in its contracts requiring the seller to comply with all laws and prudent operating practices relating to the operation and maintenance of the renewable facility and the generation and sale of the renewable product. Additionally, the seller shall take all reasonable safety precautions with respect to the operation, maintenance, repair and replacement of the facility, and notify SDCP if seller becomes aware of any circumstances relating to the facility that creates an imminent risk of damage or injury to any person or any person's property, taking prompt, reasonable action to prevent such damage or injury. SDCP is

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resources for California-based projects, each electrical corporation shall give preference to renewable energy projects that provide environmental and economic benefits to communities afflicted with poverty or high unemployment, or that suffer from high emission levels of toxic air contaminants, criteria air pollutants, and greenhouse gases.”).

aware that requesting more stringent processes and/or requirements (related to safety and/or other concerns) may trigger requested price increases by the seller/supplier. To the extent that product pricing would meaningfully increase due to the inclusion of such provisions, SDCP would need to evaluate budgetary impacts and other risks before proceeding.

In addition, SDCP has provided additional information below on its existing safety practices.

### **XI.1. Wildfire Risks and Vegetation Management**

In ongoing and future negotiations, SDCP will ensure that its contracts with renewable generating facilities will require the facility operator to comply with all relevant safety requirements. This will be accomplished, in part, through contract provisions that require the counter-party to operate and maintain the facility in compliance with all relevant laws and prudent operating practices, including relevant safety and environmental protection standards.

At this point in time, SDCP has yet to adopt specific procurement policies or preferences focused on the acquisition of forest biomass resources. SDCP is aware of the mitigating impacts that biomass generators, which use forestry waste as feedstock, may have on wildfire risk and will consider the adoption of a related procurement policy in the future.

One of the evaluative criteria considered by SDCP is project location. Part of this evaluation will include an analysis of project location with respect to wildfire risk. Projects that are sited in a high wildfire risk area may be scored lower, and the expected output associated with such project(s) may be reduced to account for potential reductions in output that may occur if fires happen to compromise the project or surrounding infrastructure. SDCP is aware of instances when CCAs have received lower-than-expected deliveries from renewable generating facilities that were required to shut down or reduce output when fire risk compromised such

electrical infrastructure. Based on this information, generating assets located in areas that are historically prone to fire risk will need to be considered in light of the potential for reduced output and resultant impacts to SDCP's RPS compliance standing.

SDCP is also considering the development of a program to educate and possibly incentivize its customers to eliminate or minimize the use of diesel and natural gas generators. As evidenced during Pacific Gas and Electric Company's 2019 Public Safety Power Shutoff ("PSPS") events, gas-powered generators can present fire hazards. ~~One~~ Since all 4 phases all of SDCP residential and commercial accounts ~~are~~ have been phased in (April 2023) ~~(which is expected to occur in 2023)~~, SDCP can consider the development of a customer outreach initiative/education program to inform customers of the potential hazards presented by customer-sited gas generators, including fire risk presented by such infrastructure. This is especially important for SDCP customers located in the eastern portion of its service territory, which is semi-rural, hotter, and drier than other parts of San Diego County, making it an area of increased wildfire risk.

In future solicitations, SDCP will identify whether any of the bidding generating facilities are located within Tier 2 or Tier 3 of the Commission's Fire-Threat Map. When evaluating or executing a contract with a facility located in Tier 2 or Tier 3, SDCP will consider requiring that the seller utilize elevated wildfire prevention and safety measures for any construction, operation, and maintenance activities.

## **XI.2. Decommissioning Facilities**

As SDCP ~~just recently completed its~~ continues to complete initial long-term contracting efforts, it has not developed any plans or requirements related to the disposition of associated generating facilities following completion of applicable delivery terms. ~~For future~~ In SDCP's

contract negotiations, SDCP will evaluate requiring the seller to provide a project safety plan or a similar type of reporting document, which will include information on procedures for identifying and remediating safety incidents, as well as describing any relevant requirements (such as those associated with the permitting of the facility) for the decommissioning of the facility.

### **XI.3. Climate Change Adaptation**

SDCP's internally adopted portfolio targets, relating to the use of renewable energy and other carbon-free energy supply, are intended to support the CAPs of Member Agencies and the San Diego Region at large. In future solicitations, SDCP will consider updating its bid evaluation criteria in consideration of the policies and preferences of its membership, including but not limited to risks associated with facilities located in regions that are forecasted to be impacted by higher instances of sea-level rise, flooding, wildfires, and/or elevated [temperatures](#). [As](#) noted above, SDCP has incorporated references to the Climate Action Plans of the Member Agencies and will provide more detailed strategies for climate change adaptation in its 2021 RPS Procurement Plans.

### **XI.4. Impacts During Public Safety Shut-off (PSPS) Events**

~~As SDCP recently commenced CCA operations, p~~potential impacts related to ~~future~~ PSPS events are uncertain. However, [regarding](#) resource planning, it is likely that a relatively short-duration PSPS event impacting SDCP would marginally reduce retail electric sales and, as a result, would generate a very small increase in the proportionate share of renewable energy supply accruing to SDCP (if renewable supply agreements continue to perform as expected during such events). As SDCP executes contracts with renewable generating facilities, it will evaluate the risk of the loss of generation associated with PSPS events both for facilities that are already online and for facilities that are still under development. Based on impact of prior PSPS



events to generating facilities, SDCP anticipates that the total quantity of any PSPS-related reductions in RPS-eligible generation will be relatively small and would likely be offset by the potential reduction in retail sales that would result from PSPS events that directly impact SDCP's customers. Therefore, the likelihood of a material impact to SDCP's renewable energy planning process or related performance metrics seems unlikely.

#### **XI.5. Biomass Procurement**

SDCP's neutral position on biomass procurement remains unchanged. ~~SDCP completed its initial long-term renewable energy contracting efforts in 2021 and has yet to receive offers from eligible "clean firm" renewable energy resources under its current RFO, so it is difficult to predict how the organization's renewable energy supply portfolio will evolve over time.~~ While SDCP has no specific preferences for or against biomass resources, the prospect of procuring such resources will be dependent upon offers received during future solicitation processes. [SDCP has executed a 5-year deal with an existing biomass facility and is in negotiations on a new-build facility that came to SDCP through the clean-form RFO that was issued in 2022.](#) To the extent that future biomass offers/proposals are competitive (with similar offers received from other resource types) and/or in the event SDCP adopts policies explicitly supporting the acquisition of biomass energy resources, SDCP will consider the inclusion of biomass energy within its renewable energy supply portfolio.

#### **XII. Consideration of Price Adjustments Mechanisms**

During ongoing contracting processes and future solicitations, and consistent with SB 350 and SB 100, SDCP will review the prospects of incorporating price adjustments in contracts with online dates more than 24 months after the date of contract execution. As noted in the ACR, such price adjustments could include price indexing to key components or to the Consumer Price

Index.

### **XIII. Curtailment Frequency, Forecasting, Costs**

This Section responds to the questions presented in Section [65.13](#) of the ACR<sup>24</sup> and describe SDCP’s strategies and experience so far in managing SDCP’s exposure to negative pricing events, overgeneration, and economic curtailment for SDCP’s region and portfolio of renewable resources.

#### **XIII.1. Factors Having the Most Impact on the Projected Increases in Incidences of Overgeneration and Negative Market Price Hours**

SDCP ~~continues to learn a great deal about~~[will continue to monitor](#) the California energy market, including information and considerations related to energy curtailment, potential cost impacts, contracting considerations, and other concerns. The following represents SDCP’s understanding of this topic, which may impact future procurement processes.

Due in large part to the rapid increase in the amount of wind and solar generating facilities that have been brought online throughout the western United States, the California Independent System Operator’s (“CAISO”) balancing authority area has experienced an increasing frequency and magnitude of curtailment and negative pricing events. [The U.S. Energy Information Agency \(“EIA”\) estimates that as of March 2023, California has 34,185.5 MW of installed solar capacity, with 15,475.2 MW of that total being behind-the meter solar.<sup>25</sup> The CAISO reports that it has approximately 16,400 MW of utility-scale solar and 7,900 MW of](#)

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<sup>24</sup> See *Assigned Commissioner and Assigned Administrative Law Judge’s Ruling Identifying Issues and Schedule of Review for 2023~~30~~ Renewables Portfolio Standard Procurement Plans*, May [56](#), 2023~~30~~ at p. [3227-28](#).

<sup>25</sup> [EIA, Electric Power Monthly, Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, March 2023 and 2022 \(Megawatts\)](#), available at: [https://www.eia.gov/electricity/monthly/epm\\_table\\_grapher.php?t=table\\_6\\_02\\_b](https://www.eia.gov/electricity/monthly/epm_table_grapher.php?t=table_6_02_b).

utility-scale wind currently installed within its balancing authority area.<sup>26</sup>~~As of the end of 2019,~~  
~~California had over 12,800 MW of solar, 9,400 MW of behind the meter solar, and 5,900 MW of~~  
~~wind.~~<sup>27</sup> This increased capacity results in discrete periods where the majority of load in the  
CAISO is served by solar and wind resources. The monthly maximum load served by wind and  
solar in the CAISO has averaged ~~68.6~~~~64.3~~ percent over the past 4 years (~~April~~~~May~~ ~~2019~~~~2018~~ to  
~~April~~~~May~~ ~~2023~~~~2022~~), and in ~~April~~~~May~~ of ~~2023~~~~2022~~ the monthly maximum load served by wind  
and solar was ~~93~~~~just under 95~~%, while the maximum 5-minute amount of all renewables serving  
load was 103.5%.<sup>28</sup> To address the resulting instances of over-supply, the amount of curtailment  
of wind and solar in the CAISO has significantly increased each year from 2015 through 2020,  
totaling 187,000 MWh in 2015, 308,000 MWh in 2016, 379,510 MWh in 2017, 461,043 MWh  
in 2018, 965,241 MWh in 2019, ~~and~~ 1,586,500 MWh in 2020, 1,504,803 in 2021, and 2,449,248  
in 2022.<sup>29</sup> As of June 30, 2023~~May 31, 2021~~, the total curtailment of solar and wind year to date  
is already 2,160,057~~1,062,270~~ MWh.<sup>30</sup> Curtailment is typically the highest during the months of  
March, April, and May when hydroelectric generation is historically at its highest.

SDCP will continue to monitor this situation to the extent such circumstances are likely  
to impact procurement activities and contract administration. If prospective renewable  
generating opportunities are located in areas that are prone to frequent instances of negative  
market pricing (based on available historical data), SDCP will be sure to evaluate such data to

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<sup>26</sup> CAISO, What are we doing to green the grid?, updated March 9, 2023, at <http://www.caiso.com/informed/Pages/CleanGrid/default.aspx>

<sup>27</sup> ~~California Energy Commission, Renewable Energy Tracking Progress, Feb. 2020, at 6, available at~~  
~~[https://www.energy.ca.gov/sites/default/files/2019-12/renewable\\_ada.pdf](https://www.energy.ca.gov/sites/default/files/2019-12/renewable_ada.pdf)~~

<sup>28</sup> CAISO, Monthly Renewables Performance Report, April 2023~~May 2022~~, available at  
<http://www.caiso.com/Documents/MonthlyRenewablesPerformanceReport-Apr2023.html>  
~~<http://www.caiso.com/Documents/MonthlyRenewablesPerformanceReport-May2022.html>~~

<sup>29</sup> CAISO, Managing Oversupply, Wind and Solar Curtailment Totals, updated July 7, 2023~~June 6, 2021~~,  
available at <http://www.caiso.com/informed/Pages/ManagingOversupply.aspx>.

<sup>30</sup> *Id.*

better understand prospective financial impacts and/or pursue contractual pricing structures that will insulate the CCA program from such risks. When SDCP considers specific renewable project/contract opportunities in the future, it will likely assume that incidences of over-generation will continue to occur (or increase) in areas of the state with low load and relatively high levels of generation. To the extent there are not opportunities to store, export or otherwise use such generation as it occurs, SDCP understands that market pricing would likely be suppressed to the extent that generation exceeds load; and to the extent that generation meaningfully exceeds load, market pricing could turn negative (or significantly negative). This concern was previously considered by SDCP and will continue to be considered when evaluating future renewable project/contract opportunities, and to the extent that certain project locations seem predisposed to incidences of negative pricing, SDCP will weigh such risk against other available project/contract opportunities. Ultimately, SDCP must satisfy its RPS procurement mandates and will need to procure among available opportunities, even if such opportunities present related risks to SDCP – in such instances, SDCP may seek to minimize its negative price risk through contract structures that alleviate these concerns for the buyer.

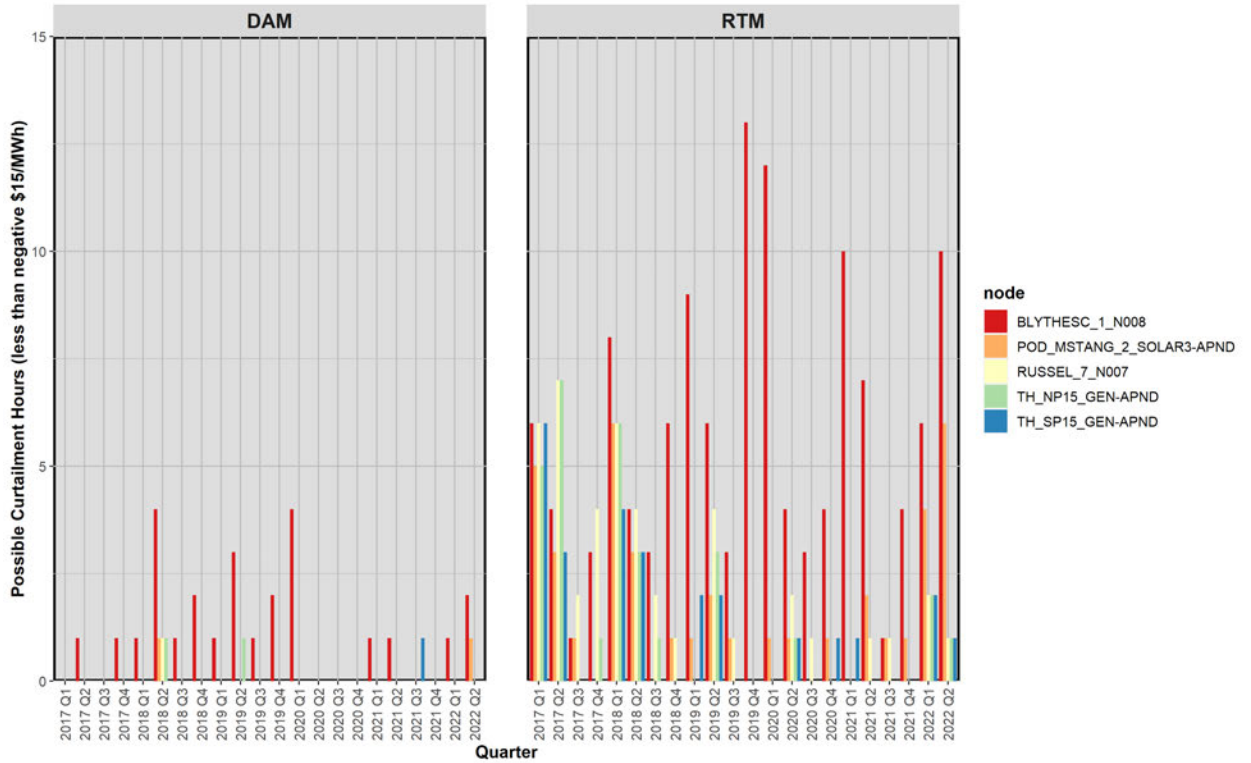
### **XIII.2. Written Description of Quantitative Analysis of Forecast of the Number of Hours Per Year of Negative Market Pricing for the Next 10 Years**

Negative prices in the CAISO market can significantly impact the cost and overall value of renewable generating assets, particularly if such supply agreements apply market-based settlement mechanisms to determine charges assessed to the buyer. Thus, it is important that SDCP consider the siting of prospective renewable generating resources to avoid taking on unforeseen costs or lower than expected delivered energy quantities, which may result from economic curtailments. For this reason, SDCP has endeavored to quantify the potential occurrence of negative pricing events within certain areas of the state that are known to include

significant levels of renewable generating capacity. ~~While SDCP is not yet directly exposed to such risks (by virtue of its current RPS contract portfolio), it is expected to experience exposure to negative price risk as its RPS contract portfolio evolves with time.~~ To improve its understanding of such risks, SDCP has assembled a historic negative pricing analysis with the average results of such analysis being used as SDCP's ten-year negative price forecast. SDCP notes that moderately negative prices – between zero and \$15/MWh – are not expected to trigger meaningful economic curtailments, as the cost of procuring replacement RPS supply under index-plus pricing arrangements would likely be equivalent in cost; in such instances, there would be little sense for SDCP to curtail renewable energy deliveries.

Below are several charts which illustrate the number of potential historic curtailment events that would have been triggered when nodal prices fell below negative \$15/MWh (SDCP's prescribed pricing benchmark that was applied to identify potential economic curtailment incidents under this methodology). Estimates for the real-time market (RTM) have been averaged over the hour to promote comparability between day-ahead and RTM outcomes.

**Possible Nodal Curtailment Hours**  
2017 Q1 to 2022 Q2



Using the historic data illustrated above, SDCP has created the following forecast that will be considered if future project opportunities are located adjacent to the specified nodes. If eventual project opportunities happen to be located in other geographic areas, SDCP would update its analysis based on the node in closest proximity to the prospective generating resource. This forecast methodology allows SDCP to estimate the quantity of time energy will be curtailed from a renewable energy project. Because most curtailment hours occur within the real-time market, SDCP has also included a sample of its analyses for a subset of nodes that are known to be in close proximity to areas of the state in which prevalent renewable generation buildout has occurred. The color shading in the table is a visual cue reflecting curtailment density in certain hours of the year. This density will be helpful in determining the delivery profiles that may complement existing generating resources adjacent to the node as well as those that may exacerbate negative pricing. SDCP is mindful that it will need to annually evaluate relevant

variables, such as regional hydrologic conditions and generalized weather trends, to determine if any adjustments ought to be made to its forecast.

BLYTHESC_1_N008 RTM												
Hour	January	February	March	April	May	June	July	August	September	October	November	December
1	.17	.50	.00	.17	.17	.00	.20	.20	.20	.00	.40	.20
2	.17	.17	.00	.00	.00	.33	.00	.20	.00	.00	.20	.20
3	.00	.17	.00	.00	.17	.17	.20	.20	.00	.00	.20	.00
4	.00	.17	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00
5	.00	.00	.17	.00	.00	.00	.20	.20	.00	.00	.20	.00
6	.17	.00	.00	.00	.33	.50	.20	.00	.00	.00	.40	.00
7	.00	.00	.00	.00	.50	1.00	.40	.20	.20	.00	.00	.40
8	.17	.50	.00	1.00	1.50	1.83	1.40	.40	.40	.40	.40	.80
9	.83	1.67	1.50	3.17	3.33	1.50	.40	.40	1.00	1.20	1.60	1.80
10	1.17	2.67	2.67	2.33	3.33	.67	.20	.40	1.60	2.20	2.60	3.60
11	2.67	3.00	3.00	2.50	2.17	.67	.00	.20	1.20	2.20	2.20	4.00
12	.83	2.83	2.50	2.83	2.17	.00	.20	.20	.80	2.40	2.60	2.60
13	3.00	3.17	4.50	1.33	1.33	.00	.00	.00	.60	1.00	2.20	2.60
14	1.00	3.83	4.33	2.17	1.33	.17	.00	.20	.60	2.40	1.20	2.40
15	1.00	4.17	4.33	1.67	.83	.50	.20	.00	.40	1.60	2.00	2.40
16	.67	3.00	3.00	1.50	.67	.00	.00	.00	.20	.80	1.40	.00
17	.17	.17	3.00	1.50	1.00	.00	.00	.00	.00	.20	.60	.40
18	.50	.17	.67	.17	.50	.00	.00	.00	.20	.00	.60	.80
19	.17	.17	.17	.00	.00	.00	.00	.00	.20	.00	.80	.80
20	.67	.50	.00	.00	.00	.00	.00	.20	.20	.00	.60	.40
21	.67	.17	.00	.00	.17	.17	.00	.20	.60	.00	.60	.20
22	.33	.50	.17	.00	.17	.33	.00	.00	.40	.00	1.00	.60
23	.33	.17	.00	.00	.00	.17	.20	.00	.60	.00	.40	.20
24	.17	.67	.33	.00	.00	.00	.00	.60	.20	.00	.40	.00
<b>Total Monthly Incidents of Neg.Pricing</b>	14.83	28.33	30.33	20.33	19.67	8.00	3.80	3.80	9.60	14.40	22.80	24.40
<b>Average Monthly Incidents of Neg.Pricing Annual Adjustment Factor to be applied across 10-year forecast</b>	1.19	2.27	2.43	1.63	1.57	.64	.30	.30	.77	1.15	1.82	1.95
	7.41%	14.15%	15.14%	10.15%	9.82%	3.99%	1.90%	1.90%	4.79%	7.19%	11.38%	12.18%

RUSSEL_7_N007 RTM												
Hour	January	February	March	April	May	June	July	August	September	October	November	December
1	.17	.17	.00	.83	.50	.33	.20	.40	.00	.00	.00	.40
2	.17	.17	.00	.83	.83	.50	.40	.20	.00	.00	.00	.40
3	.00	.33	.00	.83	1.00	.17	.40	.40	.00	.00	.00	.40
4	.00	.17	.00	.50	.83	.17	.20	.40	.00	.00	.00	.40
5	.00	.00	.17	.50	.50	.00	.20	.20	.00	.00	.00	.40
6	.00	.00	.00	.50	.50	.17	.20	.20	.00	.00	.00	.60
7	.00	.00	.00	.50	.33	.83	.20	.20	.00	.00	.00	.80
8	.00	.00	.00	.83	.33	.50	.40	.00	.20	.00	.00	.40
9	.00	.50	.33	1.17	1.00	.50	.20	.20	.00	.00	.00	.40
10	.00	1.00	.33	1.33	.67	.67	.00	.00	.00	.00	.00	.40
11	.00	1.00	.67	.83	.67	.67	.00	.00	.00	.20	.00	.40
12	.17	.33	.17	.67	1.00	.17	.00	.00	.00	.00	.00	.40
13	.17	.17	.50	1.33	.50	.17	.00	.00	.00	.00	.00	.40
14	.17	.17	1.00	1.17	.33	.17	.00	.00	.00	.00	.00	.20
15	.17	.67	1.50	1.00	.67	.17	.00	.00	.00	.00	.00	.20
16	.00	.83	2.17	1.00	.67	.17	.00	.20	.00	.00	.00	.20
17	.00	.33	1.17	1.17	.67	.33	.20	.00	.20	.00	.00	.20
18	.00	.00	.50	.33	1.00	.17	.00	.00	.20	.20	.00	.40
19	.00	.00	.17	.50	.50	.33	.20	.00	.00	.00	.00	.40
20	.00	.00	.00	.83	.33	.17	.00	.20	.00	.00	.00	.40
21	.00	.00	.00	1.00	.17	.67	.20	.00	.20	.00	.00	.40
22	.00	.17	.00	1.17	.33	.50	.20	.00	.00	.00	.00	.40
23	.00	.17	.00	.83	.33	.17	.00	.20	.20	.00	.00	.40
24	.00	.50	.33	1.67	.67	.33	.00	.20	.00	.00	.00	.40
<b>Total Monthly Incidents of Neg.Pricing</b>	1.00	6.67	9.00	21.33	14.33	8.00	3.20	3.20	1.00	.40	.00	9.40
<b>Average Monthly Incidents of Neg.Pricing Annual Adjustment Factor to be applied across 10-year forecast</b>	.08	.53	.72	1.71	1.15	.64	.26	.26	.08	.03	.00	.75
	1.29%	8.60%	11.61%	27.52%	18.49%	10.32%	4.13%	4.13%	1.29%	0.52%	0.00%	12.12%

### XIII.3. Experience, to Date, With Managing Exposure to Negative Market Prices and/or Lessons Learned from Other Retail Sellers in California

~~SDCP is a new CCA organization. To date, SDCP has no experience~~  
managing understands the exposure to negative price risk but understands and that it should pay

close attention to historical nodal energy prices at/near areas where prospective renewable generating facilities will/may be located. Gathering such information ~~should~~will facilitate an improved understanding of the frequency and significance of instances involving negative pricing and may influence project rankings within SDCP-administered solicitation processes. SDCP understands that negative pricing is more prevalent in certain geographic regions throughout the state, so contracting with generating resources located within or adjacent to such areas may expose the organization to higher-than-expected renewable energy/compliance costs. SDCP ~~has also learned~~is aware that certain contract structures, including “index plus” pricing arrangements, may substantially minimize the financial impacts related to negative pricing. For example, numerous CCAs have pursued the use of index-plus pricing structures and, as a result, such contracts are generally insulated from instances involving negative market prices and/or curtailment risk. Another effective mitigation measure for negative price risk is the co-located installation of battery storage infrastructure with intermittent renewable generating capacity. Such infrastructure generally allows the buyer to shift some or all (based on the size of the storage infrastructure) of the renewable energy production away from times of day when negative pricing can be particularly prevalent, allowing for the delivery of such power at times of day when market pricing is higher/stronger. SDCP ~~will~~has ~~consider implementing~~evaluated ~~similar~~ contracting and curtailment bid cap arrangements, as well as the inclusion of energy storage infrastructure, to minimize the risk of curtailment and negative pricing. In fact, two of SDCP’s initial three long-term renewable energy supply contracts incorporate the use of battery storage to facilitate the shifting of production curves to better align with customer energy use and market pricing conditions. During its solicitation processes, SDCP will evaluate negative pricing history, as needed, for project opportunities that may expose the organization to such risks.



SDCP ~~plans to pursue~~ is pursuing a diversified portfolio of RPS contracts that seek to utilize a variety of contract structures, generating technologies, resource locations, suppliers/developers, risk allocation mechanisms and other considerations. ~~SDCP will continue to learn lessons from established CCAs, particularly with regard to negative price risk mitigation. For example, Sonoma Clean Power Authority (“SCPA”) assesses procurement opportunities by evaluating the proposed project location and nearby historical negative pricing, including congestion, and pursues contract terms that recognize and limit the potential financial impacts of negative pricing (including curtailment rights that allow an appropriate level of economic curtailment by the buyer). Additionally, SCPA is exploring battery storage systems at existing resources that are particularly exposed to negative pricing. The above mentioned strategies for reducing the risk of negative pricing will be considered by SDCP as part of its strategy to mitigate negative price that could impact its customers.~~

#### **XIII.4. Direct Costs Incurred, to Date, for Incidences of Overgeneration and Associated Negative Market Prices**

~~SDCP is a new CCA organization.~~ Based on current supply contracts, it has yet to incur direct costs related to negative pricing (for incidences of overgeneration associated with renewable generating facilities).

#### **XIII.5. An Overall Strategy for Managing the Overall Cost Impact of Increasing Incidences of Overgeneration and Negative Market Prices**

~~In reviewing the RPS Procurement Plans of other CCAs, it is evident that~~ The direct costs associated with incidences of overgeneration are ~~currently, for most CCAs,~~ an unfortunate reality. It is the goal of SDCP to minimize these costs wherever possible by investigating mitigation strategies and learning lessons ~~from those CCAs that have been able~~ to avoid negative pricing through certain contracting mechanisms and operational strategies. While curtailment is

a viable renewable integration strategy that is generally more cost-effective than other options, there are potential negative consequences from excessive curtailment. Curtailment of solar and wind represents a lost opportunity to generate zero GHG- emitting electricity, and excessive curtailment could impact the ability of the state to meet its environmental and energy policy goals. Additionally, these over-supply situations expose ratepayers to increased costs because their LSEs must either economically curtail the generating resource (and often pay for the electricity that was not generated) or generate power and be exposed to negative prices. Because these conditions are largely driven by state policy, it is appropriate to consider macro-level mitigation measures through CAISO initiatives, Commission rulemakings, and possibly even legislation. There are a number of measures and policies that have already been implemented or are currently being pursued that will have significant impacts on curtailment in the future. This includes the expansion of the Energy Imbalance Market, improvements to the CAISO market design and structure, enhanced forecasting capabilities, time-of-use rates, improved EV charging functionalities, ~~and~~ smart deployment of distributed energy resources, [and furthered regional integration](#). The Commission's IRP proceeding will be an appropriate forum to measure the impact of these policies and the effect that they will have on future curtailment. These new measures will need to be modeled and incorporated into forecasts of future curtailment.

#### **XIII.6. Contract Terms Included in RPS Contracts Intended to Reduce the Likelihood of Curtailment or Protect Against Negative Prices.**

As described elsewhere in this RPS Procurement Plan, SDCP is aware of potential cost, compliance, and environmental impacts of negative market prices and associated curtailment of renewable resources. ~~As a new CCA, SDCP has the luxury of is~~ building its supply portfolio ~~without any~~ [with the intent to limit SDCP's exposure to negative pricing.](#) ~~energy contracts that subject SDCP to curtailment and negative price risk similar to those in some of the IOU and~~

~~CCA contracts that predate SDCP's existence and the prevalence of such significant occurrences of negative market prices. With the benefit of such hindsight and the opportunity to shape its supply portfolio with the lessons learned,~~ SDCP has incorporated a number of strategies and relevant contract provisions to further reduce curtailment and negative price risk. Primarily, SDCP has not signed a PPA with a solar-only (i.e. not co-located or hybridized with energy storage) generating facility that exposes SDCP to any market price exposure; instead, SDCP has preferred to contract with solar-plus-storage hybrid facilities. When contracting for solar or wind output not associated with hybrid or co-located facilities, SDCP has pursued index-plus pricing structures or fixed-volume contracts to ensure the same protection against negative prices and reductions in deliveries due to curtailment. When contracting with hybrid facilities that result in exposure to market prices, SDCP has maintained full dispatch rights of the facility to ensure that it can shift deliveries from negatively priced intervals and into higher priced periods, both to increase market revenues received and to reduce the magnitude of curtailed renewable generation. ~~As its supply portfolio becomes more complex and diverse, SDCP expects that curtailment and negative price risks may present themselves;~~ SDCP is likely to employ these strategies in future contracting while monitoring, exploring, and evaluating additional techniques to hedge against these potential outcomes.

#### **XIV. Cost Quantification**

SDCP has updated its Cost Quantification Table, Appendix E, based on current renewable energy supply contracts and has extended the planning period reflected in this appendix through ~~2033~~2032. SDCP will continue to update such information in future RPS procurement planning documents when new data points become available.

#### **XV. Coordination with the IRP Proceeding**

The resources identified in this RPS Procurement Plan are consistent with resources that were identified in SDCP’s most recent IRP, which was approved by SDCP’s governing board and provided to the Commission for certification on ~~November 1, 2022~~~~September 1, 2020~~. As required by the ACR,<sup>31</sup> SDCP includes the following table that describes how SDCP’s ~~2023~~~~2022~~ RPS Procurement Plan conforms with the determinations made in the IRP proceedings (R.16-02-007, R.20-05-003 and D.22-02-004). As required, SDCP will highlight the interrelationships of its RPS and IRP planning processes in a future iteration of this RPS Procurement Plan. The following table reflects SDCP’s most recent updates, as reflected in its RPS Procurement Plan, regarding RPS alignment with the IRP process.

IRP Section Subsection	RPS Alignment in IRP	
<b>III. Study Results</b>  <b>A. Preferred and Conforming Portfolios</b>	Retail sellers should explain how the RPS resources they plan to procure, outlined in their RPS Plan, will align with each portfolio to be developed in their IRP. In addition to the list of the IRP portfolios developed and portfolio descriptions submitted for Commission approval and certification in IRP Plans, this should include:	
	<ol style="list-style-type: none"> <li>1. Existing RPS resources that the retail seller owns or contracts.</li> <li>2. Existing RPS resources that the retail seller plans to contract with in the future.</li> <li>3. New RPS resources that the retail seller plans to invest in.</li> <li>4. New and existing resources that will be</li> </ol>	As part of its 2022 IRP filing, SDCP submitted two Preferred Conforming Portfolios that achieve its proportional share of both the 30 and 25 MMT GHG targets by 2035. These targets were in addition to the requirements in D.22-02-004 which require LSEs to meet their proportional share of the 2030 target of 38 MMT and plan for a 2030 target of 30 MMT. Because SDCP has yet to finalize its initial long-term RPS supply commitments that will contribute to the achievement of such portfolio goals, this document reflects those resources that SDCP intends to contract with in the future. Such procurement efforts are expected to contribute to the achievement of relevant GHG targets as well as RPS procurement requirements, including the

<sup>31</sup> ~~See ACR at 32-35.~~

	<p><i>used to meet Mid-Term Reliability obligations adopted in D.21-06-035 <a href="#">and the supplemental procurement ordered in D.23-02-040.</a></i></p>	<p>65% long-term contracting requirement.</p> <p>Description of 2022 Conforming Portfolios:</p> <ul style="list-style-type: none"> <li>• 30 MMT Conforming Portfolio: Portfolio that achieves SDCP’s proportional share of a 30 MMT statewide GHG target. <ul style="list-style-type: none"> <li>○ The 30 MMT Conforming Portfolio assumed the use of new RPS resources not yet placed under contract, including: 1,425 MW of new hybrid resources (which would include 750 MW of battery storage to promote grid reliability); 550 MW of new wind resources; -and 100 MW of new geothermal resources.</li> <li>○ The 30 MMT Conforming Portfolio also assumed the use of existing RPS resources not yet placed under contract, including: 250 MW of existing wind resources.</li> <li>○ SDCP’s 30 MMT portfolio conformed to the procurement timing, resource quantities, and general resource attributes identified in the 30 MMT reference system plan.</li> </ul> </li> <li>• 25 MMT Conforming Portfolio: Portfolio that achieves SDCP’s proportional share of a 25 MMT statewide GHG target. <ul style="list-style-type: none"> <li>○ The 25 MMT Conforming Portfolio assumed the use of new RPS resources not yet placed under contract, including: 1,425 MW of new hybrid resources (which would include 750 MW of battery storage to promote grid reliability); 550 MW of new wind resources; -and 100 MW of new geothermal resources.</li> <li>○ The 25 MMT Conforming Portfolio also assumed the use of existing RPS resources not yet</li> </ul> </li> </ul>
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		<p>placed under contract, including: 250 MW of existing wind resources.</p> <ul style="list-style-type: none"> <li>○ SDCP’s 25 MMT portfolio conformed to the procurement timing, resource quantities, and general resource attributes identified in the 25 MMT reference system plan.</li> </ul> <p>Meeting the Mid-Term Reliability obligations from D.21-06-035:</p> <ul style="list-style-type: none"> <li>○ <u>SDCP expects to meet the Mid-Term Reliability (“MTR”) cumulative obligations by 2025</u> - via resources that are currently under contract (scheduled to achieve commercial operation in <del>2023 and 2024</del> <u>or 2025</u>) or under negotiation (<del>to be online in 2023 through 2025</del>). SDCP’s <del>next</del> RPS RFO’s <u>in Q4 2022 and Q1 2023</u> <u>targeted resources that <del>could</del> will</u> address any outstanding requirements for resources to be online in 2025 or, should they present, in 2023 or 2024. With respect to Long Leadtime obligations for resources to be online in 2026, SDCP closed its solicitation on July 6, 2022 for “clean firm” resources and <del>plans closed to release</del> another solicitation for <u>stand-alone storage, including</u> long-duration energy storage resources, <u>in Q2 2023</u>. <u>SDCP notes that per D.23-2-040, see below, these long lead time obligations are now for resources to be online by 2028. Additionally, SDCP issued an RFP in October 2022 seeking resources that could be online between 2024-2026.</u></li> </ul> <p><u>Meeting the Mid-Term Reliability obligations from D.23-2-040:</u></p>
--	--	--

		<ul style="list-style-type: none"> <li>○ <a href="#"><u>SDCP expects to meet the additional Mid-Term Reliability (“MTR”) obligations for D.23-2-040. via resources that are under negotiation from its 2023 Long-Term RPS RFO seeking projects with CODs through 2028. Additionally, SDCP is in negotiation with projects from its 2023 Stand-Alone Storage RFO for long-duration storage projects that would be considered long-lead time resources needed by 2028 under D.23-2-040.</u></a></li> </ul>
<p>Retail sellers should describe how they propose to use RPS resources to implement their Preferred Portfolio. Narratives should include:</p>		
<p><b>IV. Action Plan</b> <b>A. Proposed Activities</b></p>	<p><i>1. Proposed RPS procurement activities as required by Commission decision or mandated procurement.</i></p> <p><i>2. Description of RPS resources identified in the Study Results section that correspond to proposed activities.</i></p> <p><i>3. Procurement plans, potential barriers, and resource viability for each new RPS resource identified.</i></p>	<p>To ensure compliance with its GHG and RPS targets, SDCP plans to substantially rely on GHG-free and RPS-eligible resources while contributing to statewide reliability requirements and responsibly managing overall portfolio costs. This approach is generally consistent between the 30 MMT Conforming Portfolio and 25 MMT Conforming Portfolio in the 2022 IRP Plan.</p> <p>In its IRP, SDCP also established that its planned incremental capacity exceeds its pro rata share of capacity that may be needed for replacement of Diablo Canyon. These resources are further described in SDCP’s 2022 IRP and, following collaboration with SDG&amp;E to realign MTR procurement obligations and associated procurement and contract administration, SDCP maintains the expectation that its capacity from resources under contract and currently in negotiation will exceed requirements related to replacement of Diablo Canyon</p> <p>SDCP expects to administer future solicitation processes to fill outstanding resource needs required to meet portfolio specifications reflected in its 30 MMT and 25 MMT Preferred Conforming Portfolios as well as ongoing RPS procurement obligations. As noted elsewhere in this RPS Procurement Plan, SDCP will</p>

<b>IV. Action Plan B. Procurement Activities</b>		<p>update the Commission with regard to the outcomes of its current long-term RPS contract negotiations in a future iteration of this planning process.</p> <p>SDCP does not foresee any barriers or viability concerns related to its requisite resource commitments but will advise the Commission if this impression changes over time.</p>
	<p>The retail seller should describe the solicitation strategies for the RPS resources that will be included in their Preferred Portfolio. This description should include:</p>	
	<p><i>1. The type of solicitation.</i></p> <p><i>2. The timeline for each solicitation.</i></p> <p><i>3. Desired online dates.</i></p> <p><i>4. Other relevant procurement planning</i></p>	<p>SDCP may participate in distinct solicitations for different products (for example: specific renewable energy products, generating resources or storage infrastructure), or it may choose to solicit multiple products in the same solicitation. These solicitations will be competitive and may be similar to SDCP's initial long-term RPS solicitation, which was previously described in this RPS Procurement Plan.</p> <p>SDCP will administer future solicitations, as necessary, to promote consistency with the resource development plan identified in the IRP (for purposes of promoting achievement with state-mandated RPS targets as well as SDCP's internal targets). As noted above, SDCP anticipates administering upcoming solicitation activities consistent with the process and timeline described in Section I.</p> <p>During administration of future procurement processes, SDCP will utilize the evaluative and contract management processes (further described above in Section X and elsewhere in this Plan) to promote timely project completion and improve planning certainty.</p>
<b>IV. Action Plan C. Potential Barriers</b>	<p>Retail sellers should provide a summary of the barriers that will be identified in their Preferred Portfolio as they relate to RPS resources. The section should include:</p>	
	<p><i>1. Key market, regulatory, financial,</i></p>	<p>SDCP does not expect any procurement barriers to impede its future contracting for new</p>



	<p><i>or other resource viability barriers or risks associated with the RPS resources coming online in retail sellers' Preferred Portfolios.</i></p> <p><i>2. Key risks associated with the potential retirement of existing RPS resources on which the retail seller intends to rely in the future.</i></p>	<p>renewable energy resources, but notes that even though a balanced, diverse RPS portfolio is desirable, the limited resource availability and lead time required for some technology types may necessitate planning flexibility. SDCP also observes that the rigorous demands of California's RPS program, particularly the currently effective 65 percent long-term contracting mandate, may necessitate contracting activities with a portfolio of resources that will evolve considerably over time – more specifically, SDCP may need to pursue initial supply commitments with a portfolio of resources that does not exactly reflect its eventual/ideal characteristics related resource diversity and/or reliability. Pursuit of such portfolio characteristics will continue to be a work in progress during SDCP's first several procurement efforts and will evolve throughout the upcoming 10-year planning period.</p> <p>The key risk affecting SDCP's achievement of the 46 MMT and 38 MMT Preferred Conforming IRP Portfolios in the 2020 IRP Plan and the 30 MMT and 25 MMT portfolios in the 2022 IRP Plan is reliance on new resources – while SDCP intends to contract with highly experienced and qualified project developers (when new-build resources are deemed necessary), there is always a limited risk of project failure.</p> <p>In consideration of SDCP's existing RPS contract negotiation processes that will support achievement of parameters of the Preferred Conforming IRP Portfolios, it does not have any substantive concerns regarding its ability to fulfill and achieve levels of renewable energy procurement that will be required to satisfy pertinent RPS mandates or IRP targets. If such concerns happen to change in the future, SDCP will accordingly notify the Commission in a subsequent iteration of this planning process.</p>
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## XVI. Impact of Transmission and Interconnection Delays

SB 1174 (stats. 2022, ch. 229) requires electrical corporations that own transmission lines to report to the Commission on the development of transmission and interconnection facilities necessary to provide transmission deliverability for renewable energy and/or energy storage facilities that have executed interconnection agreements. SDCP is not subject to the requirements of SB 1174 and does not own any transmission lines. Accordingly, SDCP has not included a Transmission/Interconnection Delay Data Report as an attachment to this RPS Procurement Plan.

Dated: July 17, 2023 ~~January 18, 2023~~

Respectfully submitted,

/s/ Karin Burns

Karin Burns  
Chief Executive Officer  
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# **Appendix B**

## **2023 RPS Procurement Plan Checklist and Verification**

**Draft 2023 RPS Procurement Plan Checklist- Task Completed**

<b>Retail seller name: San Diego Community Power</b>	<b>YES/NO</b>	<b>NOTES</b>
I. Major Changes to RPS Plan	YES	
II. Executive Summary	YES	
III. Summary of Legislation Compliance	YES	
IV. Assessment of RPS Portfolio Supplies and Demand	YES	
IV.A. Portfolio Supply and Demand	YES	
IV.A.1. Voluntary Allocation and Market Offer (VAMO)	YES	
IV.A.2. Portfolio Optimization	YES	
IV.B. Responsive to Policies, Regulations, and Statutes	YES	
IV.B.1 Long-term Procurement	YES	
IV.C. Portfolio Diversity and Reliability	YES	
IV.D. Lessons Learned	YES	
V. Project Development Status Update	YES	
VI. Potential Compliance Delays	YES	
VII. Risk Assessment	YES	
VIII. Renewable Net Short Calculation	YES	
IX. Minimum Margin of Procurement (MMoP)	YES	
IX.A. MMoP Methodology and Inputs	YES	
IX.B. MMoP Scenarios	YES	
X. Bid Solicitation Protocol	YES	
X.A. Solicitation Protocols for Renewables Sales	YES	
X.B. Bid Selection Protocols	YES	
X.C. LCBF Criteria	YES	
XI. Safety Considerations	YES	
XII. Consideration of Price Adjustments Mechanisms	YES	
XIII. Curtailment Frequency, Forecasting, Costs	YES	
XIV. Cost Quantification	YES	
XV. Coordination with the IRP Proceeding	YES	
XVI. Impact of Transmission and Interconnection Delays	N/A	
Appendix A: Redlined Version of the Draft 2023 RPS Plan	YES	

### **Officer Verification**

I am an officer of the reporting organization herein and am authorized to make this verification on its behalf. The statements in the foregoing document are true of my own knowledge, except as to matters which are therein stated on information or belief, and as to those matters, I believe them to be true. The spreadsheet templates used within this filing have not been altered from the version issued or approved by Energy Division.

Executed on July 17, 2023, in San Diego, California.

*/s/ Karin Burns*

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# **Appendix C**

## **Renewable Net Short Calculation**

**(Public Version)**

# Renewable Net Short Calculations - 2020 RPS Procurement Plans

**LSE Name:** San Diego Community Power  
**Date Filed:** 17-Jul-23

Input required     No input required     Hard-coded

Variable	Calculation	Item	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2017-2020	2021 Actual	2022 Actual	2023 Forecast	2024 Forecast	2021-2024
Forecast Year							CP3			1	2	CP4
<b>Annual RPS Requirement</b>												
A		Total Retail Sales (MWh)					-	2,047,877	5,624,296	7,787,553		
B		RPS Procurement Quantity Requirement (%)	27.0%	29.0%	31.0%	33.0%	NA	35.8%	38.5%	41.3%	44.0%	NA
C	A*B	Gross RPS Procurement Quantity Requirement (MWh)	-	-	-	-	-	732,116	2,165,354	3,212,366		
D		Voluntary Margin of Over-procurement (MWh)						449,792	1,116,697	1,294,336		
E	C+D	Net RPS Procurement Need (MWh)	-	-	-	-	-	1,181,908	3,282,051	4,506,701		
<b>RPS-Eligible Procurement</b>												
Fa		Risk-Adjusted RECs from Online Generation (MWh)					-	1,180,000	3,334,318	4,580,680		
Faa		Forecast Failure Rate for Online Generation (%)					#DIV/0!				2.0%	2.0%
Fb		Risk-Adjusted RECs from RPS Facilities in Development (MWh)					-	-	-	-		
Fbb		Forecast Failure Rate for RPS Facilities in Development (%)					#DIV/0!			27.0%	27.0%	27.0%
Fc		Pre-Approved Generic RECs (MWh)					-					
Fd		Executed REC Sales (MWh)					-					
F	Fa+Fc+Fd	Total RPS Eligible Procurement (MWh)	-	-	-	-	-	1,180,000	3,334,318	4,580,680		
F0		Category 0 RECs					-				359,534	
F1		Category 1 RECs					-	1,005,000	2,849,318	3,931,146		
F2		Category 2 RECs					-	175,000	485,000	290,000		
F3		Category 3 RECs					-					
<b>Gross RPS Position (Physical Net Short)</b>												
Ga	F-E	Annual Gross RPS Position (MWh)	-	-	-	-	-	(1,908)	52,267	73,979		
Gb	F/A	Annual Gross RPS Position (%)	0%	0%	0%	0%	0%	58%	59%	59%		
<b>Application of Bank</b>												
Ha	Hk (from previous Cf)	Existing Banked RECs above the PQR					-	-				-
Hb		RECs above the PQR added to Bank					-					-
Hc		Non-bankable RECs above the PQR					-					-
H	Ha+Hb	Gross Balance of RECs above the PQR	-	-	-	-	-	-	-	-	-	-
Ia		Planned Application of RECs above the PQR towards RPS Compliance					-					-
Ib		Planned Sales of RECs above the PQR					-					-
J	H-Ia-Ib	Net Balance of RECs above the PQR	-	-	-	-	-	-	-	-	-	-
J0		Category 0 RECs					-					-
J1		Category 1 RECs					-					-
J2		Category 2 RECs					-					-
<b>Expiring Contracts</b>												
K		RECs from Expiring RPS Contracts (MWh)					-					-
<b>Net RPS Position (Optimized Net Short)</b>												
La	Ga+Ia-Ib-Ic	Annual Net RPS Position after Bank Optimization (MWh)	-	-	-	-	-	(1,908)	52,267	73,979		
Lb	(F+Ia-Ib-Ic)/A	Annual Net RPS Position after Bank Optimization (%)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	58%	59%	59%		

Note: All values are to be input in MWhs

# Renewable Net Short Calculations - 2020 RPS Procurement Plans

<b>LSE Name:</b>	San Diego Community Power
<b>Date Filed:</b>	17-Jul-23

Variable	Calculation	Item	2025 Forecast	2026 Forecast	2027 Forecast	2025-2027	2028 Forecast	2029 Forecast	2030 Forecast	2028-2030	2031 Forecast	2032 Forecast	2033 Forecast
		Forecast Year	3	4	5	CP5	6	7	8	CP6	9	10	11
<b>Annual RPS Requirement</b>													
A		Total Retail Sales (MWh)		8,084,267	8,124,781		8,165,405	8,206,232	8,247,263	24,618,900	8,288,499	8,329,942	8,371,592
B		RPS Procurement Quantity Requirement (%)	46.7%	49.3%	52.0%	NA	54.7%	57.3%	60.0%	57.3%	60.0%	60.0%	60.0%
C	A*B	Gross RPS Procurement Quantity Requirement (MWh)		3,987,969	4,224,886		4,464,027	4,704,633	4,948,358	14,117,017.5	4,973,099	4,997,965	5,022,955
D		Voluntary Margin of Over-procurement (MWh)		1,842,367	1,965,236		2,003,400	2,129,061	2,168,329	6,300,790	2,440,670	2,715,682	2,993,382
E	C+D	Net RPS Procurement Need (MWh)		5,830,336	6,190,122		6,467,427	6,833,694	7,116,686	20,417,807	7,413,770	7,713,647	8,016,338
<b>RPS-Eligible Procurement</b>													
Fa		Risk-Adjusted RECs from Online Generation (MWh)		3,914,255	3,877,267		3,703,794	3,700,432	3,698,054	11,102,280	3,695,670	3,540,411	3,443,223
Faa		Forecast Failure Rate for Online Generation (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Fb		Risk-Adjusted RECs from RPS Facilities in Development (MWh)		2,082,118	3,327,271		3,304,660	3,282,627	3,306,786	9,894,072	3,265,240	3,254,955	3,234,652
Fbb		Forecast Failure Rate for RPS Facilities in Development (%)	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%	27.0%
Fc		Pre-Approved Generic RECs (MWh)								-			
Fd		Executed REC Sales (MWh)								-			
F	Fa+Fb+Fc-Fd	Total RPS Eligible Procurement (MWh)		5,996,374	7,204,538		7,008,455	6,983,059	7,004,840	20,996,353	6,960,910	6,795,366	6,677,875
F0		Category 0 RECs		359,534	359,534		359,534	359,534	359,534	1,078,603	359,534	359,534	282,996
F1		Category 1 RECs		5,858,992	7,065,553		6,867,557	6,840,260	6,860,152	20,567,970	6,814,346	6,646,936	6,604,129
F2		Category 2 RECs								-			
F3		Category 3 RECs								-			
<b>Gross RPS Position (Physical Net Short)</b>													
Ga	F-E	Annual Gross RPS Position (MWh)		166,038	1,014,416		541,028	149,365	(111,847)	578,546	(452,860)	(918,281)	(1,338,462)
Gb	F/A	Annual Gross RPS Position (%)		74%	89%		86%	85%	85%	85%	84%	82%	80%
<b>Application of Bank</b>													
Ha	Hk (from previous Cf)	Existing Banked RECs above the PQR		-			-	-		-	-		
Hb		RECs above the PQR added to Bank					-			-			
Hc		Non-bankable RECs above the PQR					-			-			
H	Ha+Hb	Gross Balance of RECs above the PQR		-	-		-	-	-	-	-	-	-
Ia		Planned Application of RECs above the PQR towards RPS Compliance					-			-			
Ib		Planned Sales of RECs above the PQR					-			-			
J	H-Ia-Ib	Net Balance of RECs above the PQR		-	-		-	-	-	-	-	-	-
J0		Category 0 RECs					-			-			
J1		Category 1 RECs					-			-			
J2		Category 2 RECs					-			-			
<b>Expiring Contracts</b>													
K		RECs from Expiring RPS Contracts (MWh)					-			-			
<b>Net RPS Position (Optimized Net Short)</b>													
La	Ga+Ib-Ik	Annual Net RPS Position after Bank Optimization (MWh)		166,038	1,014,416		541,028	149,365	(111,847)	578,546	(452,860)	(918,281)	(1,338,462)
Lb	(L+Ib-Ik)/A	Annual Net RPS Position after Bank Optimization (%)		74%	89%		86%	85%	85%	85%	84%	82%	80%

Note: All values are to be input in MWhs





# **Appendix D**

## **Project Development Status Update**

**(Public Version)**

Reporting LSE Name	RPS Contract ID	Project Name	Technology Type	Project Development Phase	City	County	State
San Diego Community Power (SDCP)	SDCP50003	Viking Energy Farm, LLC	Solar PV +BESS	Pre-Construction	Holtville	Imperial	CA
San Diego Community Power (SDCP)	SDCP50005	IP Oberon, LLC	Solar PV	Online	Desert Center	Riverside	CA
San Diego Community Power (SDCP)	SDCP50004	JVR Energy Park, LLC	Solar PV +BESS	Pre-Construction	Jacumba Hot S	San Diego	CA
San Diego Community Power (SDCP)	SDCP50006	ORNI 30 LLC	Solar PV + BESS	Pre-Construction	Brawley	Imperial	CA
San Diego Community Power (SDCP)	SDCP50007	Yellow Pine Solar III, LLC	Solar PV + BESS	Pre-Construction	Pahrump	Clark	NV

Reporting LSE Name	RPS Contract ID	Project Name	Zip Code	Latitude	Longitude	Contract Length (Years)	Contract Execution Date (mm/dd/yyyy)
San Diego Community Power (SDCP)	SDCP50003	Viking Energy Farm, LLC	92250	32.8034	-115.2702	20	
San Diego Community Power (SDCP)	SDCP50005	IP Oberon, LLC	92239	33.7181	-115.3426	15	
San Diego Community Power (SDCP)	SDCP50004	JVR Energy Park, LLC	91934	32.6242	-116.1748	20	
San Diego Community Power (SDCP)	SDCP50006	ORNI 30 LLC	92227	33.02	-115.5118	20	
San Diego Community Power (SDCP)	SDCP50007	Yellow Pine Solar III, LLC	98061	36.0679	-115.7804	20	

Reporting LSE Name	RPS Contract ID	Project Name	Contract Start Date (mm/dd/yyyy)	Contract End Date (mm/dd/yyyy)	Contract Capacity
San Diego Community Power (SDCP)	SDCP50003	Viking Energy Farm, LLC	9/1/24	8/30/44	136.8
San Diego Community Power (SDCP)	SDCP50005	IP Oberon, LLC	6/30/23	6/29/38	75
San Diego Community Power (SDCP)	SDCP50004	JVR Energy Park, LLC	10/31/26	10/30/46	90
San Diego Community Power (SDCP)	SDCP50006	ORNI 30 LLC	4/1/25	3/31/45	42
San Diego Community Power (SDCP)	SDCP50007	Yellow Pine Solar III, LLC	6/1/25	5/31/45	35

Reporting LSE Name	RPS Contract ID	Project Name	Expected Annual Generation	Total Contract Volume	Commercial Operation Date (COD)
San Diego Community Power (SDCP)	SDCP50003	Viking Energy Farm, LLC	345,000	6,638,597	
San Diego Community Power (SDCP)	SDCP50005	IP Oberon, LLC	230,000	3,347,242	6/30/2023
San Diego Community Power (SDCP)	SDCP50004	JVR Energy Park, LLC	260,000	5,549,911	
San Diego Community Power (SDCP)	SDCP50006	ORNI 30 LLC	120,000	2,223,014	
San Diego Community Power (SDCP)	SDCP50007	Yellow Pine Solar III, LLC	100,000	1,895,864	

Reporting LSE Name	RPS Contract ID	Project Name	Transmission Status	Storage: Rated Power (MW)	Storage: Capacity (MWh)	Project Notes
San Diego Community Power (SDCP)	SDCP50003	Viking Energy Farm, LLC	[REDACTED]	145.5	582	
San Diego Community Power (SDCP)	SDCP50005	IP Oberon, LLC		0	0	50% of facility
San Diego Community Power (SDCP)	SDCP50004	JVR Energy Park, LLC		70	280	
San Diego Community Power (SDCP)	SDCP50006	ORNI 30 LLC		35	140	
San Diego Community Power (SDCP)	SDCP50007	Yellow Pine Solar III, LLC		35	140	

**Appendix E**  
**Cost Quantification**

**(Public Version)**

<b>LSE Name:</b>	SDCP
<b>Date Filed:</b>	7/17/2023

 Input Required

 No Input Required

<b>Table 1: Cost Quantification (Actual Net Costs, \$)</b>		<b>Actual RPS-Eligible Procurement and Generation Net Costs (\$)</b>		
<b>1</b>	<b>Executed RPS-Eligible Contracts by Technology Type* (Purchases and Sales)</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
2	Biogas: Digester Gas			
3	Biogas: Landfill Gas			
4	Biodiesel			
5	Biomass		\$187,230	\$108,292
6	Muni Solid Waste			
7	Geothermal			
8	Small Hydro (Non-UOG)			
9	Conduit Hydro			
10	Water Supply / Conveyance			
11	Ocean Wave			
12	Ocean Thermal			
13	Tidal Current			
14	Solar PV (Non-UOG)		\$428,750	\$0
15	Solar Thermal			
16	Wind			\$3,307,750
17	Unbundled RECs (REC Only)			
18	Various (Index Plus REC)***		\$14,773,200	\$43,847,405
19	Fuel Cell			
20	UOG: Small Hydro			
21	UOG: Solar PV			
22	UOG: Other			
23	Executed REC Sales (Revenue)			\$2,125,800
24	<b>Total RPS-Eligible Procurement and Generation Net Cost</b>	<b>\$0</b>	<b>\$15,389,180</b>	<b>\$45,137,647</b>
25	Total Retail Sales (MWh)	0	2,047,877	5,624,296
26	<b>Incremental Rate Impact</b>	<b>#DIV/0!</b>	<b>\$1</b>	<b>0.802547494</b>



Table 2: Cost Quantification (Forecast Costs and Revenues, \$)		Forecast RPS-Eligible Procurement Costs and Revenues (\$)										
1	Executed But Not Approved RPS-Eligible Contracts (Purchases and Sales)**	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2	Biogas: Digester Gas											
3	Biogas: Landfill Gas											
4	Biodiesel											
5	Biomass											
6	Muni Solid Waste											
7	Geothermal											
8	Small Hydro (Non-UOG)											
9	Conduit Hydro											
10	Water Supply / Conveyance											
11	Ocean Wave											
12	Ocean Thermal											
13	Tidal Current											
14	Solar PV (Non-UOG)											
15	Solar Thermal											
16	Wind											
17	Unbundled RECs (REC Only)											
18	Various (Index Plus REC)***	\$59,139,546			\$33,227,876	\$33,210,401	\$33,323,888	\$32,897,697	\$32,273,716	\$32,512,803	\$32,393,519	\$32,134,149
20	Fuel Cell											
21	UOG: Small Hydro											
22	UOG: Solar PV											
23	UOG: Other											
24	Executed REC Sales (Revenue)											
25	<b>Total Executed But Not Approved RPS-Eligible Procurement and Generation Cost</b>	<b>\$59,139,546</b>			<b>\$33,227,876</b>	<b>\$33,210,401</b>	<b>\$33,323,888</b>	<b>\$32,897,697</b>	<b>\$32,273,716</b>	<b>\$32,512,803</b>	<b>\$32,393,519</b>	<b>\$32,134,149</b>
26	Total Retail Sales (MWh)	7,787,553			8,084,267	8,124,781	8,165,405	8,206,232	8,247,263	8,288,499	8,329,942	8,371,592
27	Incremental Rate Impact	\$1			0.41 ¢/kWh	0.41 ¢/kWh	0.41 ¢/kWh	0.40 ¢/kWh	0.39 ¢/kWh	0.39 ¢/kWh	0.39 ¢/kWh	0.38 ¢/kWh
28	<b>Executed RPS-Eligible Contracts (Purchases and Sales)****</b>	<b>2023</b>			<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>
29	Biogas: Digester Gas											
30	Biogas: Landfill Gas											
31	Biodiesel											
32	Biomass	\$39,667,021			\$16,446,002	\$13,756,592	\$0	\$0	\$0	\$0	\$0	\$0
33	Muni Solid Waste											
34	Geothermal											
35	Small Hydro (Non-UOG)											
36	Conduit Hydro											
37	Water Supply / Conveyance											
38	Ocean Wave											
39	Ocean Thermal											
40	Tidal Current											
41	Solar PV (Non-UOG)	\$8,620,224			\$57,041,064	\$64,953,065	\$64,911,916	\$64,201,154	\$63,093,658	\$63,289,217	\$62,907,770	\$62,442,337
42	Solar Thermal											
43	Wind	\$18,486,802			\$13,958,168	\$14,009,397	\$14,087,094	\$13,981,221	\$13,744,714	\$13,902,670	\$1,411,730	\$0
44	Unbundled RECs (REC Only)	\$4,540,919			\$4,540,919	\$4,540,919	\$4,540,919	\$4,540,919	\$4,540,919	\$4,540,919	\$4,540,919	\$3,574,239
45	Various (Index Plus REC)***	\$252,492,339			\$219,145,677	\$219,880,406	\$221,013,732	\$219,383,916	\$215,787,854	\$218,129,545	\$217,695,310	\$203,446,411
47	Fuel Cell											
48	UOG: Small Hydro											
49	UOG: Solar PV											
50	UOG: Other											
51	Executed REC Sales (Revenue)											
52	<b>Total Executed and Approved RPS-Eligible Procurement and Generation Cost</b>	<b>\$323,807,306</b>			<b>\$311,131,831</b>	<b>\$317,140,379</b>	<b>\$304,553,661</b>	<b>\$302,107,211</b>	<b>\$297,167,145</b>	<b>\$299,862,351</b>	<b>\$286,555,729</b>	<b>\$269,462,987</b>
53	Total Retail Sales (MWh)	7,787,553			8,084,267	8,124,781	8,165,405	8,206,232	8,247,263	8,288,499	8,329,942	8,371,592
54	Incremental Rate Impact	\$4.16			\$3.85	\$3.90	\$3.73	\$3.68	\$3.60	\$3.62	\$3.44	\$3.22
55	<b>Total RPS-Eligible Procurement and Generation Cost</b>	<b>\$382,946,851</b>			<b>\$344,359,707</b>	<b>\$350,350,780</b>	<b>\$337,877,549</b>	<b>\$335,004,908</b>	<b>\$329,440,861</b>	<b>\$332,375,154</b>	<b>\$318,949,248</b>	<b>\$301,597,136</b>
56	<b>Total Incremental Rate Impact</b>	<b>\$4.92</b>			<b>\$4.26</b>	<b>\$4.31</b>	<b>\$4.14</b>	<b>\$4.08</b>	<b>\$3.99</b>	<b>\$4.01</b>	<b>\$3.83</b>	<b>\$3.60</b>

<b>LSE Name:</b>	SDCP		Input Required		No Input Required
<b>Date Filed:</b>		7/17/2023			

<b>Table 3: Cost Quantification (Actual Procurement / Generation and Sales, MWh)</b>		<b>Actual RPS-Eligible Procurement / Generation and Sales (MWh)</b>		
1	<b>Technology Type* (Procurement / Generation and Sales)</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
2	Biogas: Digester Gas			
3	Biogas: Landfill Gas			
4	Biodiesel			
5	Biomass		25,000	9,756
6	Muni Solid Waste			
7	Geothermal			
8	Small Hydro (Non-UOG)			
9	Conduit Hydro			
10	Water Supply / Conveyance			
11	Ocean Wave			
12	Ocean Thermal			
13	Tidal Current			
14	Solar PV (Non-UOG)		35,000	0
15	Solar Thermal			
16	Wind			255,403
17	Unbundled RECs (REC Only)			
18	Various (Index Plus REC)**		1,120,000	3,208,604
19	Fuel Cell			
20	UOG: Small Hydro			
21	UOG: Solar PV			
22	UOG: Other			
23	Executed REC Sales (MWh)			138,000
<b>24</b>	<b>Total RPS Eligible Procurement (MWh)</b>	<b>0</b>	<b>1,180,000</b>	<b>3,335,763</b>

Table 4: Cost Quantification (Forecast Procurement / Generation and Sales, MWh)		Forecast RPS-Eligible Procurement / Generation and Sales (MWh)										
1	Executed But Not Approved RPS-Eligible Contracts (Purchases and Sales) **	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2	Biogas: Digester Gas											
3	Biogas: Landfill Gas											
4	Biodiesel											
5	Biomass											
6	Muni Solid Waste											
7	Geothermal											
8	Small Hydro (Non-UOG)											
9	Conduit Hydro											
10	Water Supply / Conveyance											
11	Ocean Wave											
12	Ocean Thermal											
13	Tidal Current											
14	Solar PV (Non-UOG)											
15	Solar Thermal											
16	Wind											
17	Unbundled RECs (REC Only)											
18	Various (Index Plus REC)***	503,326			379,210	377,710	377,046	374,842	373,622	372,396	371,686	369,561
20	Fuel Cell											
21	UOG: Small Hydro											
22	UOG: Solar PV											
23	UOG: Other											
24	Executed REC Sales (MWh)											
25	<b>Total Executed But Not Approved RPS-Eligible Procurement</b>	<b>503,326</b>			<b>379,210</b>	<b>377,710</b>	<b>377,046</b>	<b>374,842</b>	<b>373,622</b>	<b>372,396</b>	<b>371,686</b>	<b>369,561</b>
26	<b>Executed and Approved RPS-Eligible Contracts (Purchases and Sales) ****</b>	<b>2023</b>			<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>
27	Biogas: Digester Gas											
28	Biogas: Landfill Gas											
29	Biodiesel											
30	Biomass	469,202			205,987	171,657	0	0	0	0	0	0
31	Muni Solid Waste											
32	Geothermal											
33	Small Hydro (Non-UOG)											
34	Conduit Hydro											
35	Water Supply / Conveyance											
36	Ocean Wave											
37	Ocean Thermal											
38	Tidal Current											
39	Solar PV (Non-UOG)	101,117			829,488	1,058,042	1,053,629	1,047,513	1,042,267	1,037,036	1,032,669	1,026,624
40	Solar Thermal											
41	Wind	215,698			170,763	170,763	170,763	170,763	170,763	170,763	17,373	0
42	Unbundled RECs (REC Only)	359,534			359,534	359,534	359,534	359,534	359,534	359,534	359,534	282,996
43	Various (Index Plus REC)***	2,931,803			2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,570,407	2,403,000
45	Fuel Cell											
46	UOG: Small Hydro											
47	UOG: Solar PV											
48	UOG: Other											
49	Executed REC Sales (MWh)											
50	<b>Total Executed and Approved RPS-Eligible Procurement</b>	<b>4,077,354</b>			<b>4,136,179</b>	<b>4,330,403</b>	<b>4,154,333</b>	<b>4,148,217</b>	<b>4,142,970</b>	<b>4,137,740</b>	<b>3,979,983</b>	<b>3,712,620</b>
51	<b>Total RPS Eligible Procurement (MWh)</b>	<b>4,580,680</b>			<b>4,515,390</b>	<b>4,708,113</b>	<b>4,531,380</b>	<b>4,523,059</b>	<b>4,516,593</b>	<b>4,510,135</b>	<b>4,351,668</b>	<b>4,082,181</b>