

Memorandum

To: Jennifer Cregar, Co-Division Chief, Sustainability, County of Santa Barbara

From: Pacific Energy Advisors, Inc.

Subject: Community Choice Aggregation Technical Study

Date: May 25, 2018

Executive Summary

This Community Choice Aggregation (CCA) Technical Study (Study) was prepared for the County of Santa Barbara (SBC or the County), by Pacific Energy Advisors, Inc. (PEA) under contract with SBC, for purposes of determining the potential feasibility of forming a CCA program within Santa Barbara County. Such a program would provide electric generation service to residential, business and government customers located within Santa Barbara County. Three prospective membership configurations were assessed: 1) all Santa Barbara County, which included unincorporated areas of the County as well as each municipality located therein (the All-County Configuration, or Scenario 1); 2) only the unincorporated areas of Santa Barbara County (the Unincorporated County-Only Configuration, or Scenario 2); and 3) only the City of Santa Barbara (the City-Only Configuration, or Scenario 3). Under each membership configuration, three distinct supply scenarios were evaluated, each reflecting varying levels of greenhouse gas (GHG)-free energy¹ supply and associated costs.

Based on the analyses conducted during this Study, PEA concludes that SBC would likely have several electric supply options that would yield competitive customer rates compared to the incumbent investor-owned utilities (IOUs), Pacific Gas and Electric (PG&E) and Southern California Edison (SCE) (see Exhibits 2-4). The All-County Configuration offered the greatest potential for the increased use of GHG-free energy at competitive electric rates, while the City-Only Configuration is projected to be the most financially challenging. To the extent that increased amounts of renewable energy² and hydroelectricity are used in place of conventional power sources, as illustrated in the aforementioned three supply scenarios, anticipated SBC costs and related customer rates would increase, and the opportunity for savings relative to the IOUs would decrease.

Ultimately, SBC's ability to demonstrate rate competitiveness (while also offering environmental benefits) would hinge on prevailing market prices at the time of power supply contract negotiation and execution. Depending on inevitable changes to market prices and other assumptions such as IOU generation rates and exit fees (e.g., the Power Charge Indifference Adjustment (PCIA)), SBC's actual electric rates may be somewhat lower or higher than similar rates charged by the IOUs and would be expected to fall within a

¹ GHG-free electricity refers to electric energy generated from sources that do not emit (or emit very low amounts of) gases which contribute to the greenhouse effect, such as carbon dioxide, methane, and nitrous oxide. GHG-free power sources typically include RPS-eligible renewable energy and hydroelectric generating resources.

² While the U.S. Environmental Protection Agency defines hydroelectric energy of any size as a renewable energy resource, the State of California's RPS excludes large hydroelectric projects greater than or equal to 30 MW from its definition of renewable energy. Therefore, the term "renewable energy" throughout this report refers to renewable energy resources that comply with the California RPS.

competitive range needed for program viability.

Introduction

This Study addresses the potential benefits and liabilities associated with forming a CCA program over an eleven-year planning horizon (2020-2030). Projected operating results are based on a variety of factors and assumptions, including but not limited to:

- Recent wholesale energy and capacity product pricing and availability;
- The County's desired electric power portfolio composition, which is expected to include significant use of renewable energy and other GHG-free energy sources;
- Anticipated retail generation rates of SCE and PG&E, the incumbent IOUs within the County;
- Estimated PCIA rates and other surcharges, or exit fees, which are imposed on CCA customers;
- Expected financing and administrative costs of the CCA program;
- Other cost elements at the time of assessment completion; and
- PEA's extensive direct experience with many of California's operational CCA programs.³

As requested by SBC, PEA evaluated the operating feasibility of three specific CCA membership configurations: *Scenario 1*) formation of a regional CCA initiative serving all municipalities located within Santa Barbara County (unincorporated areas of the County as well as each municipality located therein); *Scenario 2*) formation of a CCA program exclusively serving customers located within the unincorporated areas of Santa Barbara County; and *Scenario 3*) formation of a CCA program exclusively serving customers located in the City of Santa Barbara (City). PEA was tasked to deliver the following items for each membership Scenario:

- 1. Rate comparisons for SCE and PG&E under three (3) different supply scenarios, for which the SBC project team specified the amount of renewable energy to be included RPS tracking, 50% renewable, and 75% renewable;
- 2. Portfolio composition comparisons for SCE and PG&E under the three (3) aforementioned supply scenarios; and
- 3. Pro forma cash flow reports for SCE and PG&E under each of SBC's three (3) supply scenarios such cash flow reports were to include detail regarding anticipated revenues and costs associated with CCA program operation, including power supply costs, administrative and overhead costs, start-up costs and planned financial reserves.

Unless otherwise noted, the term "SBC" is used throughout this document to depict all three membership Scenarios.

SBC's Prospective Customers

Currently, electric customers within SBC are served by either SCE or PG&E, depending on the geographic area in which such customers reside. Collectively, the IOUs serve approximately 150,000 combined

³ PEA has unique experience with California CCA program evaluation, development and operation, having provided broad functional support to many operational California CCAs, including Marin Clean Energy, Sonoma Clean Power, Lancaster Choice Energy, CleanPowerSF, Peninsula Clean Energy, Silicon Valley Clean Energy, Pioneer Community Energy and Monterey Bay Community Power.

electric accounts (85,377 by SCE, and 65,142 by PG&E) within all the communities of Santa Barbara County, representing a mix of residential (≈85%), commercial (≈13%) and agricultural (≈2%) accounts.⁴ These customers consume nearly 2.6 billion kilowatt hours ("kWh") of electric energy each year. While the majority of customers fall under the residential classification, such accounts historically consume only 26% of the total electricity delivered by the IOUs. The balance of SBC's historical electricity sales (74% of the total) are substantially related to commercial (≈32%), industrial (≈30%) and agricultural (≈10%) usage. Based on historical data that was evaluated during this Study, peak annual customer demand in SBC, which represents the highest level of instantaneous energy consumption during a particular year, occurred during the month of September and totaled 428 megawatts (MW), which is equivalent to the amount of electricity produced by a small combined-cycle natural gas-fired power plant. In consideration of the unique membership scenarios that are being evaluated as part of this Study, it is also noteworthy that unincorporated SBC (reflective of Scenario 2 membership) has approximately 52,000 total customer accounts served by the IOUs; such accounts consume approximately 1.3 billion total kWh annually. The City of Santa Barbara (which reflects the Scenario 3 membership configuration) has approximately 41,000 customer accounts, all of which are located within the SCE service territory, that consume approximately 400 million kWh annually.

Under CCA service, each of these accounts could be enrolled in the SBC program; the precise timing of customer enrollment phasing, if any, would be determined during the implementation period. For purposes of this study it was assumed that all customers would be enrolled during the month of January 2020, which is the earliest time that a CCA program could launch under current State regulations. Consistent with California law, customers may elect to take service from the CCA provider or remain with SCE or PG&E, a process known as "opting-out." For purposes of the Study, PEA utilized current participatory statistics compiled by the operating CCA programs to derive an assumed participation rate of 90% for the SBC program; the remaining 10% of regional customers (not including Direct Access customers, which would not be enrolled by the CCA program for purposes of avoiding duplicative customer charges and/or contractual issues for such accounts) are assumed to opt-out of the SBC program and would continue receiving generation service from the IOUs. Customer account and energy usage projections referenced throughout this Study reflect such adjustment.

SBC's Indicative Supply Scenarios

For purposes of the Study, SBC identified three indicative supply scenarios which were designed to test the viability of prospective CCA operations under a variety of energy resource compositions, balancing SBC's interest in reducing GHG emissions through increased use of GHG-free electric energy sources with SBC's desire for rate affordability.

The following supply scenarios were identified by the SBC project team for purposes of completing this CCA Study:

• Supply Scenario 1: RPS tracking (33% renewable energy content in 2020, annually increasing to

⁴ Prospective account totals reflect only bundled customers served exclusively by the applicable IOU and exclude Direct Access customers who procure their electricity supply from a provider other than PG&E or SCE.

⁵ Reflects bundled customer electricity usage in calendar year 2015.

50% in 2030).6,7

- **Supply Scenario 2**: Constant 50% renewable energy content throughout the entirety of the study period.
- **Supply Scenario 3**: Constant 75% renewable energy content throughout the entirety of the study period.

When considering the prospective supply scenarios evaluated in this Study, SBC should understand that it is not limited to any particular scenario assessed in this Study. The Study's supply scenarios serve to demonstrate the potential operating outcomes of a new CCA program under a broad range of energy resource compositions that generally reflect key objectives of SBC. Prior to the procurement of any particular energy products, SBC would have an opportunity to refine its desired resource mix, which may differ from the prospective scenarios reflected herein.

Portfolio Composition

When considering SBC's projected portfolio composition, it is important to note that current market pricing for renewable and GHG-free power sources is becoming increasingly cost competitive when compared to conventional generating technologies. This trend has allowed for the inclusion of high proportions of GHG-free electricity within each of SBC's prospective supply scenarios while generally retaining cost competitiveness.

In calculating the portfolio composition for each supply scenario in years 1 and 11, PEA was instructed to maintain SBC's projected GHG-free energy content at a level that did not fall below similar projections for the IOUs. The GHG estimates for PG&E were significantly influenced by its ongoing use of nuclear generation, which is generally recognized as GHG-free. In particular, the Diablo Canyon Power Plant (DCPP) produces approximately 24% of the utility's total annual electric energy requirements⁸; although the facility's two reactor units will discontinue operations (in 2024 and 2025, respectively) during the latter portion of the Study period, potential sources of necessary replacement power remain unknown. Furthermore, it remains to be seen if any replacement power will be necessary at the time of DCPP closure, as increased CCA expansion throughout California has transitioned a significant portion of PG&E's historical generation service obligation to CCA providers.

⁶ Consistent with California's RPS laws, retail sellers of electric energy, including CCAs, must procure a minimum 33% of all electricity from eligible renewable energy sources by 2020; with the recent enrollment of Senate Bill 350, California's RPS procurement mandate has been increased to 50% by 2030.

Industry accepted GHG accounting practices generally recognize eligible renewable energy sources as GHG-free. However, California's ongoing implementation of Assembly Bill 1110 (Ting, 2016) will likely alter such practices, imposing a new retail-level GHG emissions calculation methodology that may eliminate the emissions benefits historically attributed to certain renewable energy products. In particular, the California Energy Commission's recent staff proposal regarding AB 1110 implementation suggests that many Bucket 2 renewable energy products and all Bucket 3 products would be ascribed a non-zero GHG emissions rate generally equivalent to system-wide purchases. Specific details regarding AB 1110 implementation remain under development and will not be finalized until later in 2018 or early 2019. Note that AB 1110 will be effective for all power purchases occurring on and after January 1, 2019. Also, under all supply scenarios, incremental purchases of non-RPS-eligible GHG-free sources, specifically electricity produced by larger hydroelectric resources (with nameplate generating capacity in excess of 30 megawatts) would be procured by SBC to achieve targeted GHG emissions reductions.

⁸ As reflected in PG&E's 2016 Power Content Label.

In substantial part, the forecasted increase in PG&E's GHG-free supply directly results from the large amount of departing load, much of which is related to CCA expansion, within its service territory. When such transitions occur, certain GHG-free generation sources within PG&E's supply portfolio, namely nuclear power plants, hydroelectric generation and certain renewable generating technologies, generally continue to operate without adjustment for such load/sales reductions. This has the effect of inducing meaningful increases in the proportion of GHG-free energy reflected within PG&E's supply mix. In fact, PG&E recently reported a significant year-over-year reduction in its portfolio GHG emissions factor for calendar year 2016, which reflects the aforementioned phenomenon. During 2016, the proportion of PG&E's supply portfolio attributable to GHG-free resources approximated 69%; in 2017, PG&E announced that its GHG-free portfolio had increased to nearly 79%, which will likely translate to further reductions in the utility's emissions factor. PEA anticipates further GHG emissions reductions for PG&E as additional customers continue to depart for CCA alternatives. ¹⁰ Separately, SCE's GHG-free energy content has stayed relatively flat from 2015 to 2016, but is expected to trend higher with the 2018 launch of Clean Power Alliance of Southern California (formerly known as Los Angeles Community Choice Energy) and other existing and emerging CCAs (e.g., City of Lancaster, Apple Valley Clean Energy). This noted, the IOUs have sold, and may continue to sell, some of their respective renewable energy supplies in anticipation of reduced customer sales. Depending on the magnitude of such renewable energy sales, which are contingent upon CPUC approval, the anticipated increase in GHG-free power content within each IOU's supply portfolio may be somewhat moderated.

The various energy supply components underlying each supply scenario are broadly categorized as:

- Conventional Supply (generally electric energy produced through the combustion of fossil fuels, particularly natural gas within the California energy market);
- "Bucket 1" Renewable Energy Supply (generally renewable energy produced by generating resources located within or delivering power directly to California);
- "Bucket 2" Renewable Energy Supply (generally renewable generation produced outside of California with associated energy import requirements);
- "Bucket 3" Renewable Energy Supply (environmental attributes of metered renewable energy production, conferred in the form of a renewable energy certificate (REC), which is sold separately from the electric power; Bucket 3 renewable energy is commonly produced outside of California and is colloquially referred to as an "unbundled REC"); and
- Additional GHG-Free Supply (generally power produced by regionally located hydroelectric generating facilities, which do not meet the eligibility requirements of California's RPS program

 such requirements render larger hydroelectric generators in excess of 30 MW ineligible to participate in California's RPS program).

Table 1 below displays PG&E's and SCE's proportionate use of various power sources during the most recent reporting year (2016) compared with California's aggregate resource mix. During the Study period, planned increases in California's RPS procurement mandate and various other factors, including customer departures for CCA service, will contribute to periodic changes in PG&E's and SCE's noted resource mix. Such changes will affect projected GHG emissions comparisons between SBC and PG&E/SCE.

⁹ http://www.pgecurrents.com/2018/02/20/pge-clean-energy-deliveries-already-meet-future-goals/.

¹⁰ http://www.pgecurrents.com/2018/03/26/independent-registry-confirms-record-low-carbon-emissions-for-pge/.

Table 1: 2016 PG&E, SCE and California Power Mix

| Energy Resource | 2016 PG&E Power Mix | 2016 SCE Power Mix ² | 2016 California Power Mix |
|------------------------|---------------------|---------------------------------|---------------------------|
| Eligible Renewable | 33% | 28% | 25% |
| Biomass & Waste | 4% | 1% | 2% |
| Geothermal | 5% | 7% | 4% |
| Small Hydroelectric | 3% | 0% | 2% |
| Solar | 13% | 10% | 8% |
| Wind | 8% | 10% | 9% |
| Coal | 0% | 0% | 4% |
| Large Hydroelectric | 12% | 6% | 10% |
| Natural Gas | 17% | 19% | 37% |
| Nuclear | 24% | 6% | 9% |
| Unspecified Sources of | 14% | 41% | 15% |
| Total ⁴ | 100% | 100% | 100% |

¹Source: PG&E 2016 Power Source Disclosure Report ²Source: SCE 2016 Power Source Disclosure Report

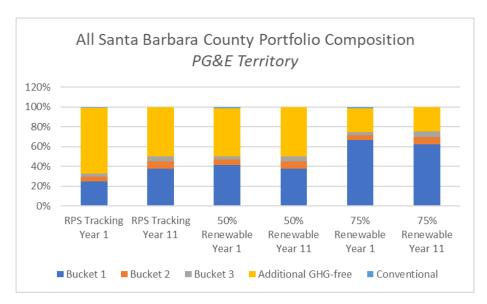
Regarding SBC's anticipated clean energy supply, each prospective supply scenario yielded different environmental benefits, resulting from the diverse composition of clean energy sources within each unique resource mix. In comparison to PG&E's and SCE's prospective supply portfolios, all supply scenarios would yield GHG emissions that are at parity with or below similar projections for the IOUs. As previously noted, PG&E's proportionate share of GHG-free supply has increased in recent years and is expected to further increase as additional CCA organizations commence operations within its service territory. In order to maintain a favorable relationship with regard to this key element of SBC's CCA service offering (within areas currently served by PG&E), PEA projected minimal use of conventional power sources and/or market purchases throughout the Study period. The expected portfolio composition within SCE's service territory is rather different, as this IOU is not expected to offer the same level of GHG-free supply to its customers. As such, conventional power and/or market purchases range from approximately 25% to 36% within the SCE service territory throughout the Study period.

More specifically, within the PG&E service territory, Years 1 and 11 of the Study period reflected an anticipated resource mix that was approximately 99% and 100% GHG-free, respectively. Such a portfolio composition was necessary to remain competitive with PG&E in terms of SBC's GHG-free energy content — due to PG&E's anticipated resource composition and the SBC Study Team's interest in retaining year-over-year portfolio compositions that did not regress in terms of GHG-free supply, the CCA's supply portfolio within PG&E's service territory reflected near-zero use of conventional power sources during each year of the Study period. When comparing each of the projected supply scenarios, the aforementioned GHG-free content was achieved by interlacing varying portions of renewable energy and hydroelectricity to balance SBC's somewhat competing environmental and rate-related objectives. Additional detail regarding the projected CCA supply portfolio in Years 1 and 11 of the Study period is provided in Chart 1.

³Source: California Energy Commission - http://www.energy.ca.gov/almanac/electricity data/total system power.html

⁴Numbers may not add due to rounding





| | | | | | | | Emissions Factor |
|---|----------|----------|----------|---------------------|----------------|--------------|------------------|
| PG&E (All Santa Barbara County) | Bucket 1 | Bucket 2 | Bucket 3 | Additional GHG-free | Total GHG-free | Conventional | (lbs. CO2e/MWh) |
| Supply Scenario 1 (RPS Tracking Year 1) | 25% | 5% | 3% | 66% | 99% | 1% | 9 |
| Supply Scenario 1 (RPS Tracking Year 11) | 38% | 8% | 5% | 50% | 100% | 0% | - |
| Supply Scenario 2 (50% Renewable Year 1) | 42% | 5% | 3% | 49% | 99% | 1% | 12 |
| Supply Scenario 2 (50% Renewable Year 11) | 38% | 8% | 5% | 50% | 100% | 0% | - |
| Supply Scenario 3 (75% Renewable Year 1) | 67% | 5% | 3% | 24% | 99% | 1% | 12 |
| Supply Scenario 3 (75% Renewable Year 11) | 63% | 8% | 5% | 25% | 100% | 0% | - |

For the SCE service territory, the CCA's projected use of GHG-free energy resources was proportionately lower, as SCE is not expected to offer the same composition of clean resources relative to PG&E. As reflected in Chart 2, the CCAs use of conventional power sources and/or market purchases is expected to range from 25% to 36% within the SCE service territory throughout the Study period; the balance of the CCA's resource mix would be sourced from a variety of renewable and additional GHG-free supply.

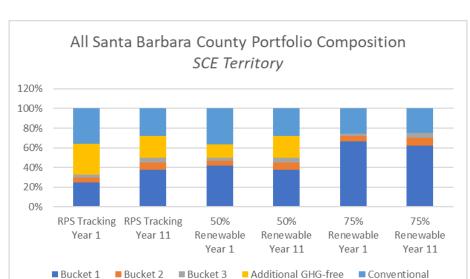


Chart 2 – All Santa Barbara County Portfolio Composition SCE Territory

| | | | | | | | Emissions Factor |
|---|----------|----------|----------|---------------------|----------------|--------------|-------------------------|
| SCE (All Santa Barbara County) | Bucket 1 | Bucket 2 | Bucket 3 | Additional GHG-free | Total GHG-free | Conventional | (lbs. CO2e/MWh) |
| Supply Scenario 1 (RPS Tracking Year 1) | 25% | 5% | 3% | 31% | 64% | 36% | 340 |
| Supply Scenario 1 (RPS Tracking Year 11) | 38% | 8% | 5% | 22% | 72% | 28% | 264 |
| Supply Scenario 2 (50% Renewable Year 1) | 42% | 5% | 3% | 14% | 64% | 36% | 342 |
| Supply Scenario 2 (50% Renewable Year 11) | 38% | 8% | 5% | 22% | 72% | 28% | 264 |
| Supply Scenario 3 (75% Renewable Year 1) | 67% | 5% | 3% | 0% | 75% | 25% | 238 |
| Supply Scenario 3 (75% Renewable Year 11) | 63% | 8% | 5% | 0% | 75% | 25% | 236 |

Residential Rate Cost Impacts

PEA was also requested to evaluate the anticipated cost impacts resulting from CCA service commencement for a typical residential customer during each year of the Study period. Such impacts vary with the quantity of renewable energy that is assumed to be included within each of the three projected supply scenarios and the amount of electricity that a typical residential customer is expected to use (under the All-County membership configuration, an average residential customer is expected to use 436 kWh/month within the PG&E service territory and 462 kWh/month within the SCE service territory). On average, residential bill impacts throughout the Study period were favorable (meaning that residential customers were generally expected to experience slightly reduced costs under CCA service) across all three membership configurations. In particular, supply scenarios 1 (33% to 50% renewable) and 2 (50% renewable) demonstrated rate/cost savings under all of the membership configurations while supply scenario 3 (75% renewable) was only rate-favorable under the All-County membership configuration. Details of the cost impact on residential bills of the varying levels of GHG-free resources can be found in Table 2.

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¹¹ Monthly average usage figures were derived using historical usage data for residential customers within Santa Barbara County.

Table 2 – Residential Bill Impacts

| Residentia | l Bill Impacts (\$/Mo | nth) | | | | | | | | | | | | | | | | | | |
|------------|-----------------------|--------|------|--------------|--------------|--------------|-----|--------|-----|--------|--------------|--------------|-----|--------|-----|--------|--------------|--------------|-----|--------|
| KWh/Mo | Membership | Supply | IOU | 2020 | 2021 | 2022 | - 3 | 2023 | - 3 | 2024 | 2025 | 2026 | - 3 | 2027 | - 2 | 2028 | 2029 | 2030 | Ave | rage |
| 436 | All | RPS | PG&E | \$ (2.68) | \$ (3.33) | \$ (3.17) | \$ | (3.32) | \$ | (3.50) | \$ (3.70) | \$ (3.36) | \$ | (3.53) | \$ | (4.24) | \$ (4.29) | \$ (4.38) | \$ | (3.59) |
| 436 | All | 50% | PG&E | \$ (0.90) | \$ (2.04) | \$ (2.06) | \$ | (2.32) | \$ | (2.62) | \$ (2.93) | \$ (2.71) | \$ | (3.01) | \$ | (3.85) | \$ (4.03) | \$ (4.25) | \$ | (2.79) |
| 436 | All | 75% | PG&E | \$ 1.20 | \$ (0.02) | \$ (0.09) | \$ | (0.35) | \$ | (0.63) | \$ (0.92) | \$ (0.67) | \$ | (0.94) | \$ | (1.78) | \$ (1.95) | \$ (2.16) | \$ | (0.76) |
| 512 | Unincorporated | RPS | PG&E | \$ (0.22) | \$ (1.87) | \$ (1.59) | \$ | (1.63) | \$ | (1.73) | \$ (1.85) | \$ (1.45) | \$ | (1.50) | \$ | (2.43) | \$ (2.44) | \$ (2.45) | \$ | (1.74) |
| 512 | Unincorporated | 50% | PG&E | \$ 1.15 | \$ (0.86) | \$ (0.71) | \$ | (0.82) | \$ | (1.00) | \$ (1.21) | \$ (0.90) | \$ | (1.04) | \$ | (2.06) | \$ (2.16) | \$ (2.27) | \$ | (1.08) |
| 512 | Unincorporated | 75% | PG&E | \$ 3.54 | \$ 1.46 | \$ 1.55 | \$ | 1.46 | \$ | 1.31 | \$ 1.13 | \$ 1.48 | \$ | 1.38 | \$ | 0.37 | \$ 0.29 | \$ 0.22 | \$ | 1.29 |
| 462 | All | RPS | SCE | \$ (2.08) | \$ (2.69) | \$ (2.67) | \$ | (2.91) | \$ | (3.17) | \$ (3.46) | \$ (3.24) | \$ | (3.51) | \$ | (4.34) | \$ (4.52) | \$ (4.73) | \$ | (3.39) |
| 462 | All | 50% | SCE | \$ (0.69) | \$ (1.65) | \$ (1.73) | \$ | (2.03) | \$ | (2.37) | \$ (2.74) | \$ (2.62) | \$ | (2.99) | \$ | (3.94) | \$ (4.25) | \$ (4.60) | \$ | (2.69) |
| 462 | All | 75% | SCE | \$ 0.93 | \$ (0.01) | \$ (0.08) | \$ | (0.31) | \$ | (0.57) | \$ (0.86) | \$ (0.65) | \$ | (0.94) | \$ | (1.82) | \$ (2.06) | \$ (2.33) | \$ | (0.79) |
| 642 | Unincorporated | RPS | SCE | \$ (0.20) | \$ (1.77) | \$ (1.57) | \$ | (1.66) | \$ | (1.83) | \$ (2.02) | \$ (1.64) | \$ | (1.75) | \$ | (2.91) | \$ (3.00) | \$ (3.09) | \$ | (1.95) |
| 642 | Unincorporated | 50% | SCE | \$ 1.04 | \$ (0.82) | \$ (0.69) | \$ | (0.84) | \$ | (1.06) | \$ (1.32) | \$ (1.01) | \$ | (1.21) | \$ | (2.47) | \$ (2.66) | \$ (2.87) | \$ | (1.26) |
| 642 | Unincorporated | 75% | SCE | \$ 3.21 | \$ 1.38 | \$ 1.53 | \$ | 1.49 | \$ | 1.38 | \$ 1.24 | \$ 1.68 | \$ | 1.60 | \$ | 0.45 | \$ 0.36 | \$ 0.27 | \$ | 1.33 |
| 376 | City | RPS | SCE | \$ (0.12) | \$ 0.03 | \$ (0.43) | \$ | (1.20) | \$ | (1.20) | \$ (1.98) | \$ (1.85) | \$ | (2.64) | \$ | (3.93) | \$ (5.29) | \$ (6.04) | \$ | (2.24) |
| 376 | City | 50% | SCE | \$ 0.89 | \$ 0.93 | \$ 0.35 | \$ | (0.50) | \$ | (0.58) | \$ (1.45) | \$ (1.42) | \$ | (2.31) | \$ | (3.71) | \$ (5.17) | \$ (6.04) | \$ | (1.73) |
| 376 | City | 75% | SCE | \$ 2.48 | \$ 2.49 | \$ 1.90 | \$ | 1.07 | \$ | 2.80 | \$ 1.96 | \$ 2.04 | \$ | 1.19 | \$ | (0.21) | \$ (3.40) | \$ (4.24) | \$ | 0.73 |

General Operating Projections

When reviewing the pro forma financial results associated with each of the prospective supply scenarios, the projected "Net Surplus/Deficit" during each year of the Study period reflects the projected net revenues (or deficits) that would be realized by SBC if the program decided to offer customer electric rates that were equivalent to similar rates charged by the IOUs. To the extent that the Net Surplus/Deficit is positive, SBC would have the potential to offer comparatively lower customer rates/charges, relative to similar rates imposed by the IOUs; to the extent that the Net Surplus/Deficit is negative, SBC would need to impose comparatively higher generation rates to recover expected costs, or risk running an operating deficit that would need to be funded through accrued reserves or other unanticipated revenue sources.

The initial results for the combined-IOU pro formas indicate several instances of projected net surpluses under all membership configurations. For the All-County membership configuration, both the RPS-tracking and the 50% renewable energy supply scenario scenarios project a net surplus starting in 2020 (see Exhibits 5 and 6); the 75% renewable energy supply scenario projects a net surplus starting a year later in 2021 (see Exhibit 7). For the Unincorporated County-only membership configuration, the RPS-tracking and 50% renewable energy supply scenarios project a net surplus starting in 2020 and 2021 respectively (see Exhibits 8-9); the 75% renewable energy supply scenario is expected to generate budget deficits in each year of the Study period (see Exhibit 10), unless rates are set above the IOUs. In the City-only membership configuration, the RPS-tracking supply scenario projects a net surplus starting in 2020; the 50% renewable energy supply and 75% energy supply scenarios project a net surplus starting in 2023 and 2028, respectively (see Exhibits 11-13). Key assumptions used in PEA pro forma analyses are listed in Exhibit 1.

Ultimately, the use of any projected net revenues will be determined by SBC leadership during periodic budgeting and rate-setting processes. Such net revenues could be passed through to SBC customers in the form of comparatively lower electric rates/charges, utilized as working capital for program operations in an attempt to reduce program financing requirements, or SBC leadership could strike a balance between reduced rates and increased funding for complementary energy programs, such as Net Energy Metering, customer rebates (to promote local distributed renewable infrastructure buildout or energy efficiency, for example) as well as other similarly focused programs. SBC leadership would have

considerable flexibility in administering the disposition of any projected net revenues, subject to any financial covenants that may be entered into by the program.

Findings and Conclusions

Based on the analyses conducted throughout this Study, PEA has identified several electric supply options that could provide rate savings compared with the incumbent IOUs. The All-County membership configuration (Scenario 1) proved to be the most promising as it incorporated the combined rates of both IOUs, while the City-Only membership scenario (Scenario 3) was the most financially challenging as it only included the comparatively lower SCE generation rate (which necessitates lower CCA generation rates to remain competitive in this aspect of service delivery). Projected rate savings varied with the amount of renewable energy included in the CCA's supply portfolio, with the lower range of renewables (RPS-tracking supply scenario) offering greater savings over the supply scenarios with higher renewable content (50% and 75% renewable supply scenarios).

Ultimately, SBC's rate competitiveness (while also offering environmental benefits) would hinge on prevailing market prices at the time of power supply contract negotiation and execution. Depending on inevitable changes to market prices and other assumptions, such as IOU generation rates and exit fees (e.g., the PCIA), SBC's actual electric rates may be somewhat lower or higher than similar rates charged by the IOUs and would be expected to fall within a competitive range needed for program viability.

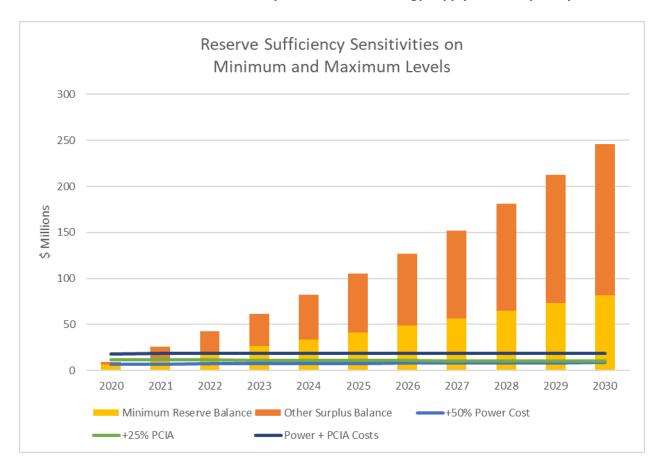
Sensitivity Analyses

In response to SBC's request to better understand the ability of the modeled reserve fund to weather adverse changes in power prices and PCIA costs, PEA performed sensitivity analyses involving the variability of those costs. The increased cost was evaluated by year relative to: 1) accumulated reserves (Minimum Reserve Levels); and 2) accumulated reserves plus accumulated surpluses (Maximum Reserve Levels). Baseline PCIA projections comprise approximately 30-40% of the CCA customer's generation costs. To represent a reasonable range of outcomes, PCIA costs were increased by 25% relative to the baseline projections. Power costs were stressed assuming a 50% increase in costs associated with the CCA program's annual open position, which is expected to be approximately 10% of total energy requirements during each year of program operation.¹²

When compared to Minimum Reserve Levels, a 50% increase in spot market power costs could be fully absorbed as early as 2020. In the unlikely event that both contingencies were to occur at the same time, the Minimum Reserve balance would be sufficient to cover the combined cost increase beginning in 2022. As compared to Maximum Reserve Levels, SBC could absorb a 50% increase in power costs as early as 2020, and could manage the impact of both a 25% increase in PCIA costs and 50% increase in power prices as early as 2021. Further details can be seen in Chart 3.

¹² Volatility on power prices was derived using historical prices over the past 10 years, which captures the market movements during the natural gas boom/bust and the Great Recession. In order to capture extreme movements, the prices were stressed using a 95% confidence interval. The PCIA sensitivity is similarly expected to capture a range of reasonably likely outcomes for that cost variable.

Chart 3 – All Santa Barbara County 50% Renewable Energy Supply Sensitivity Analyses



| All Santa Barbara County 50% Renew | vable | | | | | | | | | | |
|------------------------------------|-------|------|------|------|------|------|------|------|------|------|------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
| Minimum Reserve Balance | 6 | 13 | 19 | 26 | 34 | 41 | 49 | 57 | 65 | 73 | 82 |
| Other Surplus Balance | 3 | 13 | 23 | 35 | 48 | 64 | 79 | 95 | 117 | 140 | 164 |
| Maximum Reserve Balance | 9 | 26 | 42 | 61 | 82 | 105 | 127 | 152 | 181 | 213 | 246 |
| +50% Power Cost | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 |
| +25% PCIA | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 |
| Power + PCIA Costs | 18 | 18 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | 19 | 19 |
| | | | | | | | | | | | |
| Total | -9 | 7 | 24 | 43 | 64 | 87 | 109 | 133 | 163 | 194 | 227 |

EXHIBIT 1 – KEY ASSUMPTIONS

Generally

- Customer opt-out rate of 10% for all scenarios.
- Start-up costs of approximately \$7-10 million (consisting predominantly of 80% working capital, and 20% startup costs), sourced from an interest-free General Fund loan for the City of Santa Barbara only scenario, and a 3% interest-only bank loan with a 1 year balloon principal payment for All Santa Barbara County and Unincorporated Santa Barbara scenarios.
- Annual reserve contributions fixed at 4% of annual revenue.
- Based on published market prices and recent transactions for similar energy products, average energy costs were modeled as follows:

| PG&E (\$/MWh) | | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | | 2027 | | 2028 | | 2029 | | 2030 |
|--------------------------|----|-------|----|-------|----|-------|----|-------------|----|-------|----|-------------|----|-------------|----|-------------|----|-------|----|-------|----|-------------|
| Shaped Energy | \$ | 34.24 | \$ | 37.10 | \$ | 38.45 | \$ | 39.41 | \$ | 40.40 | \$ | 41.41 | \$ | 42.44 | \$ | 43.50 | \$ | 44.59 | \$ | 45.70 | \$ | 46.85 |
| Bucket 1 | \$ | 18.25 | \$ | 18.50 | \$ | 18.75 | \$ | 19.22 | \$ | 19.70 | \$ | 20.19 | \$ | 20.70 | \$ | 21.21 | \$ | 21.74 | \$ | 22.29 | \$ | 22.85 |
| Bucket 2 | \$ | 8.50 | \$ | 9.00 | \$ | 9.00 | \$ | 9.23 | \$ | 9.46 | \$ | 9.69 | \$ | 9.93 | \$ | 10.18 | \$ | 10.44 | \$ | 10.70 | \$ | 10.97 |
| Bucket 3 | \$ | 2.25 | \$ | 2.50 | \$ | 2.75 | \$ | 2.82 | \$ | 2.89 | \$ | 2.96 | \$ | 3.04 | \$ | 3.11 | \$ | 3.19 | \$ | 3.27 | \$ | 3.35 |
| System RA (\$/KW-Mo) | \$ | 2.38 | \$ | 2.43 | \$ | 2.48 | \$ | 2.54 | \$ | 2.60 | \$ | 2.67 | \$ | 2.74 | \$ | 2.80 | \$ | 2.88 | \$ | 2.95 | \$ | 3.02 |
| Bay Area RA (\$/KW-Mo) | \$ | 3.88 | \$ | 3.93 | \$ | 3.98 | \$ | 4.08 | \$ | 4.18 | \$ | 4.29 | \$ | 4.39 | \$ | 4.50 | \$ | 4.61 | \$ | 4.73 | \$ | 4.85 |
| Other PG&E RA (\$/KW-Mo) | \$ | 3.38 | \$ | 3.43 | \$ | 3.48 | \$ | 3.57 | \$ | 3.66 | \$ | 3.75 | \$ | 3.84 | \$ | 3.94 | \$ | 4.03 | \$ | 4.14 | \$ | 4.24 |
| Carbon Free Premium | \$ | 2.50 | \$ | 3.00 | \$ | 3.50 | \$ | 3.59 | \$ | 3.68 | \$ | 3.77 | \$ | 3.86 | \$ | 3.96 | \$ | 4.06 | \$ | 4.16 | \$ | 4.26 |
| | | | | | | | | | | | | | | | | | | | | | | |
| SCE (\$/MWh) | | 2020 | | 2021 | | 2022 | | <u>2023</u> | | 2024 | | <u>2025</u> | | <u>2026</u> | | <u>2027</u> | | 2028 | | 2029 | | <u>2030</u> |
| Shaped Energy | \$ | 34.24 | \$ | 37.10 | \$ | 38.45 | \$ | 39.19 | \$ | 40.18 | \$ | 40.83 | \$ | 43.62 | \$ | 44.32 | \$ | 43.56 | \$ | 44.59 | \$ | 45.45 |
| Bucket 1 | \$ | 18.25 | \$ | 18.50 | \$ | 18.75 | \$ | 19.22 | \$ | 19.70 | \$ | 20.19 | \$ | 20.70 | \$ | 21.21 | \$ | 21.74 | \$ | 22.29 | \$ | 22.85 |
| Bucket 2 | \$ | 8.50 | \$ | 9.00 | \$ | 9.00 | \$ | 9.23 | \$ | 9.46 | \$ | 9.69 | \$ | 9.93 | \$ | 10.18 | \$ | 10.44 | \$ | 10.70 | \$ | 10.97 |
| Bucket 3 | \$ | 2.25 | \$ | 2.50 | \$ | 2.75 | \$ | 2.82 | \$ | 2.89 | \$ | 2.96 | \$ | 3.04 | \$ | 3.11 | \$ | 3.19 | \$ | 3.27 | \$ | 3.35 |
| System RA (\$/KW-Mo) | \$ | 3.15 | \$ | 3.23 | \$ | 3.31 | \$ | 3.39 | \$ | 3.48 | \$ | 3.56 | \$ | 3.65 | \$ | 3.74 | \$ | 3.84 | \$ | 3.93 | \$ | 4.03 |
| LA Basin (\$/KW-Mo) | \$ | 3.15 | \$ | 3.23 | \$ | 3.31 | \$ | 3.39 | \$ | 3.48 | \$ | 3.56 | \$ | 3.65 | \$ | 3.74 | \$ | 3.84 | \$ | 3.93 | \$ | 4.03 |
| BC/Ventura (\$/KW-Mo) | \$ | 3.15 | \$ | 3.23 | \$ | 3.31 | \$ | 3.39 | \$ | 3.48 | \$ | 3.56 | \$ | 3.65 | \$ | 3.74 | \$ | 3.84 | \$ | 3.93 | \$ | 4.03 |
| Flexible (\$/KW-Mo) | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | Ś | 0.11 | ς | 0.11 |
| TICKIDIC (\$7/KWV IVIO) | ٦ | 0.11 | ٦ | 0.11 | ٦ | 0.11 | ب | 0.11 | ٦ | 0.11 | ب | 0.11 | ٦ | 0.11 | ۲ | 0.11 | Y | 0.11 | Y | 0.11 | 7 | 0 |

- No utility-scale local generation supply sources were assumed within Santa Barbara County.
 Bucket 1 supply is generally from in-state renewable resources, Buckets 2 and 3 are from out-of-state, and additional GHG-free is assumed to be coming from large hydro electric generators in California and the Pacific Northwest.
- Approximately 10% of SBC's load would be met by purchases from the CAISO market.
- The required CCA bond is assumed at \$100,000, consistent with current requirements.
- Annual staffing costs were derived by benchmarking to currently operating CCAs of similar size
 that range from approximately \$558,000 for City-only to \$3,500,000 for All Santa Barbara and
 Unincorporated Santa Barbara, with corresponding staffing levels ranging from 3 to
 approximately 20, respectively.
- All scenarios consider a single phase of customer enrollments.
- Uncollectable debts are assumed at 0.5% of revenue, consistent with current bad debt levels seen by other CCAs.
- No voluntary 100% opt-up renewable energy program was modeled; the estimated impact of
 offering a voluntary opt-up program is de minimus with respect to portfolio planning and
 program finances.

• The impact of DERs on CCA load is considered to the extent that it will be offset by growth in other areas such as the increase in demand from electric vehicles.

SCE Inputs

Annual Rate Growth¹³

• Generation rates:

| SCE Generation | | | | | | | | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Annual Average Rates (\$/MWh) | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | <u>2030</u> |
| D | \$ 60.26 | \$ 63.99 | \$ 67.73 | \$ 71.47 | \$ 75.21 | \$ 78.98 | \$ 82.76 | \$ 86.58 | \$ 90.43 | \$ 94.32 | \$ 98.25 |
| GS-1 | \$ 67.24 | \$ 70.49 | \$ 73.77 | \$ 77.08 | \$ 80.42 | \$ 83.80 | \$ 87.22 | \$ 90.69 | \$ 94.22 | \$ 97.80 | \$ 101.44 |
| TC-1 | \$ 52.71 | \$ 55.16 | \$ 57.64 | \$ 60.15 | \$ 62.68 | \$ 65.24 | \$ 67.84 | \$ 70.48 | \$ 73.17 | \$ 75.90 | \$ 78.67 |
| GS-2 | \$ 54.26 | \$ 57.50 | \$ 60.74 | \$ 63.98 | \$ 67.24 | \$ 70.52 | \$ 73.81 | \$ 77.14 | \$ 80.50 | \$ 83.89 | \$ 87.33 |
| TOU-GS | \$ 53.27 | \$ 56.20 | \$ 59.14 | \$ 62.09 | \$ 65.06 | \$ 68.06 | \$ 71.08 | \$ 74.13 | \$ 77.22 | \$ 80.35 | \$ 83.52 |
| TOU-8-Sec | \$ 52.66 | \$ 55.40 | \$ 58.16 | \$ 60.93 | \$ 63.73 | \$ 66.55 | \$ 69.40 | \$ 72.29 | \$ 75.21 | \$ 78.18 | \$ 81.19 |
| TOU-8-Pri | \$ 48.76 | \$ 51.30 | \$ 53.85 | \$ 56.42 | \$ 59.01 | \$ 61.62 | \$ 64.26 | \$ 66.94 | \$ 69.64 | \$ 72.39 | \$ 75.18 |
| TOU-8-Sub | \$ 43.85 | \$ 46.20 | \$ 48.55 | \$ 50.92 | \$ 53.30 | \$ 55.70 | \$ 58.13 | \$ 60.58 | \$ 63.06 | \$ 65.58 | \$ 68.14 |
| TOU-PA-2 | \$ 49.83 | \$ 52.53 | \$ 55.23 | \$ 57.94 | \$ 60.68 | \$ 63.43 | \$ 66.22 | \$ 69.03 | \$ 71.88 | \$ 74.77 | \$ 77.70 |
| TOU-PA-3 | \$ 42.32 | \$ 44.37 | \$ 46.43 | \$ 48.51 | \$ 50.61 | \$ 52.74 | \$ 54.89 | \$ 57.07 | \$ 59.29 | \$ 61.54 | \$ 63.84 |
| Street Lights | \$ 43.38 | \$ 44.68 | \$ 46.02 | \$ 47.40 | \$ 48.83 | \$ 50.29 | \$ 51.80 | \$ 53.36 | \$ 54.96 | \$ 56.61 | \$ 58.31 |

• Exit fees (Cost responsibility surcharge):

| Cost Responsibility Surcharge | | | | | | | | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SCE Average Rates (\$/MWh) | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
| D | \$ 21.45 | \$ 20.16 | \$ 18.95 | \$ 17.82 | \$ 16.75 | \$ 15.74 | \$ 14.80 | \$ 13.91 | \$ 13.08 | \$ 12.29 | \$ 11.55 |
| GS-1 | \$ 13.76 | \$ 12.93 | \$ 12.16 | \$ 11.43 | \$ 10.74 | \$ 10.10 | \$ 9.49 | \$ 8.92 | \$ 8.39 | \$ 7.88 | \$ 7.41 |
| TC-1 | \$ 9.74 | \$ 9.15 | \$ 8.60 | \$ 8.09 | \$ 7.60 | \$ 7.15 | \$ 6.72 | \$ 6.31 | \$ 5.93 | \$ 5.58 | \$ 5.24 |
| GS-2 | \$ 17.89 | \$ 16.82 | \$ 15.81 | \$ 14.86 | \$ 13.97 | \$ 13.13 | \$ 12.34 | \$ 11.60 | \$ 10.91 | \$ 10.25 | \$ 9.64 |
| TOU-GS | \$ 14.81 | \$ 13.92 | \$ 13.09 | \$ 12.30 | \$ 11.57 | \$ 10.87 | \$ 10.22 | \$ 9.61 | \$ 9.03 | \$ 8.49 | \$ 7.98 |
| TOU-8-Sec | \$ 12.93 | \$ 12.16 | \$ 11.43 | \$ 10.74 | \$ 10.10 | \$ 9.49 | \$ 8.92 | \$ 8.39 | \$ 7.88 | \$ 7.41 | \$ 6.97 |
| TOU-8-Pri | \$ 11.99 | \$ 11.27 | \$ 10.59 | \$ 9.96 | \$ 9.36 | \$ 8.80 | \$ 8.27 | \$ 7.77 | \$ 7.31 | \$ 6.87 | \$ 6.46 |
| TOU-8-Sub | \$ 11.43 | \$ 10.74 | \$ 10.10 | \$ 9.49 | \$ 8.92 | \$ 8.39 | \$ 7.88 | \$ 7.41 | \$ 6.97 | \$ 6.55 | \$ 6.16 |
| TOU-PA-2 | \$ 13.32 | \$ 12.52 | \$ 11.77 | \$ 11.06 | \$ 10.40 | \$ 9.77 | \$ 9.19 | \$ 8.64 | \$ 8.12 | \$ 7.63 | \$ 7.17 |
| TOU-PA-3 | \$ 8.65 | \$ 8.13 | \$ 7.64 | \$ 7.18 | \$ 6.75 | \$ 6.35 | \$ 5.97 | \$ 5.61 | \$ 5.27 | \$ 4.96 | \$ 4.66 |
| Street Lights | \$ 0.02 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 |
| TOU-8-S-Pri | \$ - |

• Annual load growth is assumed at 0.5%

CAISO costs

CAISO cost: \$1.60/MWhDistribution losses: 6%

• Scheduling fees: \$0.40/MWh

Other costs

• Data Manager Charges of \$1.15 per account per month

• Utility Service Fees of \$1.25 per account per month

 $^{^{13}}$ Rate projections are based on current rates which are then projected forward consistent with PEA price assumptions and the resource plans published by the IOUs.

PG&E Inputs

Annual Rate Growth

• Generation rates:

| PG&E Generation | | | | | | | | | | | | |
|-------------------------------|------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Annual Average Rates (\$/MWh) | | <u>2020</u> | <u>2021</u> | 2022 | 2023 | 2024 | 2025 | <u>2026</u> | 2027 | 2028 | 2029 | 2030 |
| E-1 | \$ 7 | 73.79 | \$ 74.82 | \$ 75.86 | \$ 76.91 | \$ 77.98 | \$ 79.06 | \$ 80.16 | \$ 81.28 | \$ 82.41 | \$ 83.55 | \$ 84.71 |
| E-7 | \$ 6 | 67.63 | \$ 68.57 | \$ 69.52 | \$ 70.49 | \$ 71.47 | \$ 72.46 | \$ 73.47 | \$ 74.49 | \$ 75.53 | \$ 76.58 | \$ 77.64 |
| A-1 | \$ 8 | 81.85 | \$ 82.99 | \$ 84.15 | \$ 85.31 | \$ 86.50 | \$ 87.70 | \$ 88.92 | \$ 90.16 | \$ 91.41 | \$ 92.68 | \$ 93.97 |
| A-6 | \$ 9 | 95.51 | \$ 96.84 | \$ 98.18 | \$ 99.55 | \$ 100.93 | \$ 102.34 | \$ 103.76 | \$ 105.20 | \$ 106.66 | \$ 108.15 | \$ 109.65 |
| A-10 | \$ 8 | 85.57 | \$ 86.76 | \$ 87.96 | \$ 89.18 | \$ 90.42 | \$ 91.68 | \$ 92.95 | \$ 94.25 | \$ 95.56 | \$ 96.89 | \$ 98.23 |
| E-19-S | \$ 8 | 31.01 | \$ 82.14 | \$ 83.28 | \$ 84.43 | \$ 85.61 | \$ 86.80 | \$ 88.00 | \$ 89.23 | \$ 90.47 | \$ 91.73 | \$ 93.00 |
| E-19-P | \$ 7 | 74.02 | \$ 75.05 | \$ 76.09 | \$ 77.15 | \$ 78.22 | \$ 79.31 | \$ 80.41 | \$ 81.53 | \$ 82.66 | \$ 83.81 | \$ 84.98 |
| E-19-T | \$ 5 | 55.42 | \$ 56.19 | \$ 56.97 | \$ 57.77 | \$ 58.57 | \$ 59.38 | \$ 60.21 | \$ 61.04 | \$ 61.89 | \$ 62.75 | \$ 63.63 |
| E-20-S | \$ 7 | 78.32 | \$ 79.41 | \$ 80.51 | \$ 81.63 | \$ 82.77 | \$ 83.92 | \$ 85.08 | \$ 86.26 | \$ 87.46 | \$ 88.68 | \$ 89.91 |
| E-20-P | \$ 7 | 75.80 | \$ 76.85 | \$ 77.92 | \$ 79.00 | \$ 80.10 | \$ 81.21 | \$ 82.34 | \$ 83.48 | \$ 84.65 | \$ 85.82 | \$ 87.01 |
| E-20-T | \$ 6 | 67.50 | \$ 68.44 | \$ 69.39 | \$ 70.35 | \$ 71.33 | \$ 72.32 | \$ 73.33 | \$ 74.35 | \$ 75.38 | \$ 76.43 | \$ 77.49 |
| TC-1 | \$ 6 | 69.76 | \$ 70.73 | \$ 71.71 | \$ 72.71 | \$ 73.72 | \$ 74.74 | \$ 75.78 | \$ 76.84 | \$ 77.91 | \$ 78.99 | \$ 80.09 |
| Ag | \$ 7 | 73.42 | \$ 74.44 | \$ 75.48 | \$ 76.53 | \$ 77.59 | \$ 78.67 | \$ 79.76 | \$ 80.87 | \$ 82.00 | \$ 83.14 | \$ 84.29 |
| Street Lights | \$ 8 | 81.03 | \$ 82.16 | \$ 83.30 | \$ 84.46 | \$ 85.63 | \$ 86.82 | \$ 88.03 | \$ 89.25 | \$ 90.49 | \$ 91.75 | \$ 93.02 |

• Exit fees (PCIA and franchise fees surcharge):

| PCIA and Franchise Fee Surcharge | | | | | | | | | | | |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| PG&E Average Rates (\$/MWh) | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
| E-1 | \$ 34.01 | \$ 33.86 | \$ 33.72 | \$ 33.57 | \$ 33.43 | \$ 33.29 | \$ 33.14 | \$ 33.00 | \$ 32.86 | \$ 32.72 | \$ 32.58 |
| E-7 | \$ 34.01 | \$ 33.86 | \$ 33.72 | \$ 33.57 | \$ 33.43 | \$ 33.29 | \$ 33.14 | \$ 33.00 | \$ 32.86 | \$ 32.72 | \$ 32.58 |
| A-1 | \$ 25.28 | \$ 25.17 | \$ 25.06 | \$ 24.96 | \$ 24.85 | \$ 24.74 | \$ 24.63 | \$ 24.53 | \$ 24.42 | \$ 24.32 | \$ 24.21 |
| A-6 | \$ 25.28 | \$ 25.17 | \$ 25.06 | \$ 24.96 | \$ 24.85 | \$ 24.74 | \$ 24.63 | \$ 24.53 | \$ 24.42 | \$ 24.32 | \$ 24.21 |
| A-10 | \$ 25.68 | \$ 25.57 | \$ 25.46 | \$ 25.35 | \$ 25.24 | \$ 25.13 | \$ 25.02 | \$ 24.92 | \$ 24.81 | \$ 24.70 | \$ 24.60 |
| E-19-S | \$ 21.65 | \$ 21.56 | \$ 21.46 | \$ 21.37 | \$ 21.28 | \$ 21.19 | \$ 21.10 | \$ 21.01 | \$ 20.92 | \$ 20.83 | \$ 20.74 |
| E-19-P | \$ 21.65 | \$ 21.56 | \$ 21.46 | \$ 21.37 | \$ 21.28 | \$ 21.19 | \$ 21.10 | \$ 21.01 | \$ 20.92 | \$ 20.83 | \$ 20.74 |
| E-19-T | \$ 21.65 | \$ 21.56 | \$ 21.46 | \$ 21.37 | \$ 21.28 | \$ 21.19 | \$ 21.10 | \$ 21.01 | \$ 20.92 | \$ 20.83 | \$ 20.74 |
| E-20-S | \$ 20.83 | \$ 20.74 | \$ 20.65 | \$ 20.56 | \$ 20.47 | \$ 20.39 | \$ 20.30 | \$ 20.21 | \$ 20.12 | \$ 20.04 | \$ 19.95 |
| E-20-P | \$ 19.44 | \$ 19.36 | \$ 19.27 | \$ 19.19 | \$ 19.11 | \$ 19.03 | \$ 18.94 | \$ 18.86 | \$ 18.78 | \$ 18.70 | \$ 18.62 |
| E-20-T | \$ 17.86 | \$ 17.78 | \$ 17.71 | \$ 17.63 | \$ 17.55 | \$ 17.48 | \$ 17.40 | \$ 17.33 | \$ 17.25 | \$ 17.18 | \$ 17.11 |
| TC-1 | \$ 25.28 | \$ 25.17 | \$ 25.06 | \$ 24.96 | \$ 24.85 | \$ 24.74 | \$ 24.63 | \$ 24.53 | \$ 24.42 | \$ 24.32 | \$ 24.21 |
| Ag | \$ 25.16 | \$ 25.05 | \$ 24.94 | \$ 24.84 | \$ 24.73 | \$ 24.62 | \$ 24.52 | \$ 24.41 | \$ 24.31 | \$ 24.20 | \$ 24.10 |
| SL | \$ 6.50 | \$ 6.47 | \$ 6.44 | \$ 6.42 | \$ 6.39 | \$ 6.36 | \$ 6.33 | \$ 6.31 | \$ 6.28 | \$ 6.25 | \$ 6.23 |

• Annual load growth is assumed at 0.5%

CAISO costs

CAISO cost: \$1.60/MWhDistribution losses: 6%

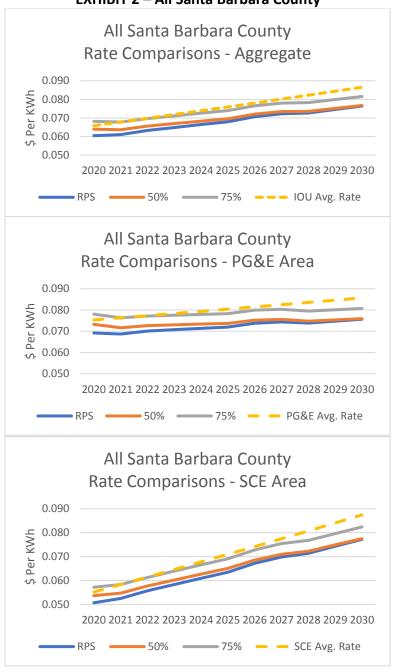
• Scheduling fees: \$0.40/MWh

Other costs

• Data Manager Charges of \$1.15 per account per month

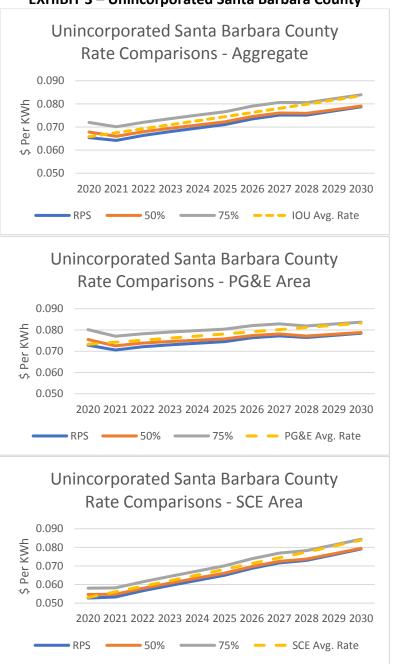
• Utility Service Fees of \$0.37 per account per month





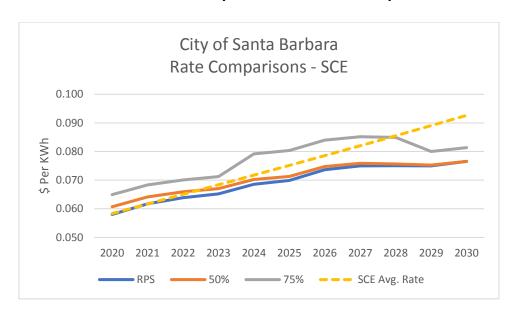
| All Santa Barbara | | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IOU Avg. Rate | | 0.066 | 0.068 | 0.070 | 0.072 | 0.074 | 0.076 | 0.078 | 0.080 | 0.082 | 0.084 | 0.087 |
| CCA Avg. Cost | RPS | 0.060 | 0.061 | 0.063 | 0.065 | 0.066 | 0.068 | 0.071 | 0.072 | 0.073 | 0.075 | 0.076 |
| CCA Avg. Cost | 50% | 0.064 | 0.064 | 0.066 | 0.067 | 0.068 | 0.070 | 0.072 | 0.073 | 0.074 | 0.075 | 0.077 |
| CCA Avg. Cost | 75% | 0.068 | 0.068 | 0.070 | 0.071 | 0.073 | 0.074 | 0.077 | 0.078 | 0.078 | 0.080 | 0.082 |
| PG&E Avg. Rate | | 0.075 | 0.076 | 0.077 | 0.078 | 0.079 | 0.080 | 0.081 | 0.083 | 0.084 | 0.085 | 0.086 |
| PG&E CCA | RPS | 0.069 | 0.069 | 0.070 | 0.071 | 0.071 | 0.072 | 0.074 | 0.074 | 0.074 | 0.075 | 0.076 |
| PG&E CCA | 50% | 0.073 | 0.072 | 0.073 | 0.073 | 0.073 | 0.074 | 0.075 | 0.076 | 0.075 | 0.075 | 0.076 |
| PG&E CCA | 75% | 0.078 | 0.076 | 0.077 | 0.078 | 0.078 | 0.078 | 0.080 | 0.080 | 0.079 | 0.080 | 0.081 |
| SCE Avg. Rate | | 0.055 | 0.058 | 0.061 | 0.065 | 0.068 | 0.071 | 0.074 | 0.077 | 0.081 | 0.084 | 0.087 |
| SCE CCA | RPS | 0.051 | 0.052 | 0.056 | 0.058 | 0.061 | 0.064 | 0.067 | 0.070 | 0.071 | 0.074 | 0.077 |
| SCE CCA | 50% | 0.054 | 0.055 | 0.058 | 0.060 | 0.063 | 0.065 | 0.069 | 0.071 | 0.072 | 0.075 | 0.077 |
| SCE CCA | 75% | 0.057 | 0.058 | 0.061 | 0.064 | 0.067 | 0.069 | 0.073 | 0.075 | 0.077 | 0.080 | 0.082 |





| Unincorporated Santa Ba | arbara_ | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IOU Avg. Rate | | 0.066 | 0.068 | 0.070 | 0.072 | 0.074 | 0.076 | 0.078 | 0.080 | 0.082 | 0.084 | 0.087 |
| CCA Avg. Cost | RPS | 0.065 | 0.064 | 0.066 | 0.068 | 0.070 | 0.071 | 0.074 | 0.075 | 0.075 | 0.077 | 0.079 |
| CCA Avg. Cost | 50% | 0.068 | 0.066 | 0.068 | 0.069 | 0.071 | 0.072 | 0.075 | 0.076 | 0.076 | 0.077 | 0.079 |
| CCA Avg. Cost | 75% | 0.072 | 0.070 | 0.072 | 0.074 | 0.075 | 0.077 | 0.079 | 0.081 | 0.081 | 0.082 | 0.084 |
| PG&E Avg. Rate | | 0.073 | 0.074 | 0.075 | 0.076 | 0.077 | 0.078 | 0.079 | 0.080 | 0.081 | 0.082 | 0.083 |
| PG&E CCA | RPS | 0.073 | 0.071 | 0.072 | 0.073 | 0.074 | 0.075 | 0.076 | 0.077 | 0.076 | 0.077 | 0.078 |
| PG&E CCA | 50% | 0.076 | 0.073 | 0.074 | 0.075 | 0.075 | 0.076 | 0.077 | 0.078 | 0.077 | 0.078 | 0.079 |
| PG&E CCA | 75% | 0.080 | 0.077 | 0.078 | 0.079 | 0.080 | 0.080 | 0.082 | 0.083 | 0.082 | 0.083 | 0.084 |
| SCE Avg. Rate | | 0.053 | 0.056 | 0.059 | 0.062 | 0.065 | 0.068 | 0.071 | 0.074 | 0.078 | 0.081 | 0.084 |
| SCE CCA | RPS | 0.053 | 0.053 | 0.057 | 0.059 | 0.062 | 0.065 | 0.069 | 0.072 | 0.073 | 0.076 | 0.079 |
| SCE CCA | 50% | 0.055 | 0.055 | 0.058 | 0.061 | 0.063 | 0.066 | 0.070 | 0.072 | 0.074 | 0.077 | 0.079 |
| SCE CCA | 75% | 0.058 | 0.058 | 0.061 | 0.064 | 0.067 | 0.070 | 0.074 | 0.077 | 0.078 | 0.081 | 0.084 |

EXHIBIT 4 – City of Santa Barbara County



| City of Santa Barbara | | 2020 | <u>2021</u> | 2022 | 2023 | 2024 | 2025 | <u>2026</u> | <u>2027</u> | <u>2028</u> | <u>2029</u> | 2030 |
|-----------------------|-----|-------|-------------|-------|-------|-------|-------|-------------|-------------|-------------|-------------|-------|
| SCE Avg. Rate | | 0.058 | 0.062 | 0.065 | 0.068 | 0.072 | 0.075 | 0.079 | 0.082 | 0.086 | 0.089 | 0.093 |
| CCA Avg. Cost | RPS | 0.058 | 0.062 | 0.064 | 0.065 | 0.069 | 0.070 | 0.074 | 0.075 | 0.075 | 0.075 | 0.077 |
| CCA Avg. Cost | 50% | 0.061 | 0.064 | 0.066 | 0.067 | 0.070 | 0.071 | 0.075 | 0.076 | 0.076 | 0.075 | 0.077 |
| CCA Avg. Cost | 75% | 0.065 | 0.068 | 0.070 | 0.071 | 0.079 | 0.080 | 0.084 | 0.085 | 0.085 | 0.080 | 0.081 |

Exhibit 5 - All Santa Barbara County RPS-Tracking Pro Forma

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| l. Revenue | , | 156,561,067 | 162,162,930 | 167,832,371 | 173,576,391 | 179,401,948 | 185,315,967 | 191,325,356 | 197,437,017 | 203,657,862 | 209,994,821 | 216,454,861 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 120,053,563 | 129,522,094 | 135,157,290 | 139,355,182 | 143,454,880 | 147,509,281 | 154,505,510 | 158,909,698 | 161,743,262 | 167,052,712 | 172,284,297 |
| Staff | 583,333 | 3,500,000 | 3,587,500 | 3,677,188 | 3,769,117 | 3,863,345 | 3,959,929 | 4,058,927 | 4,160,400 | 3,500,000 | 3,500,000 | 3,500,000 |
| Marketing and Communications | 349,005 | 1,234,676 | 1,164,759 | 1,194,594 | 1,225,196 | 1,256,586 | 1,288,784 | 1,321,810 | 1,355,686 | 1,141,194 | 1,141,900 | 1,142,610 |
| Legal, Consulting, other Prof. Services | 300,000 | 1,500,000 | 1,537,500 | 1,575,938 | 1,615,336 | 1,655,719 | 1,697,112 | 1,739,540 | 1,783,029 | 1,500,000 | 1,500,000 | 1,500,000 |
| Data Management | | 1,898,527 | 1,908,014 | 1,917,550 | 1,927,134 | 1,936,753 | 1,946,435 | 1,956,166 | 1,965,931 | 1,975,746 | 1,985,623 | 1,995,536 |
| Utility Service Fees | | 431,280 | 426,917 | 436,131 | 445,605 | 455,346 | 465,364 | 475,666 | 425,709 | 427,814 | 429,931 | 432,056 |
| Miscellaneous Admin. & General | 83,333 | 500,000 | 512,500 | 525,313 | 538,445 | 551,906 | 565,704 | 579,847 | 594,343 | 500,000 | 500,000 | 500,000 |
| Uncollectibles/Other | | 782,805 | 810,815 | 839,162 | 867,882 | 897,010 | 926,580 | 956,627 | 987,185 | 1,018,289 | 1,049,974 | 1,082,274 |
| Subtotal Operating Expenses | 1,315,672 | 129,900,851 | 139,470,098 | 145,323,164 | 149,743,898 | 154,071,546 | 158,359,189 | 165,594,092 | 170,181,982 | 171,806,305 | 177,160,140 | 182,436,774 |
| Operating Margin | (1,315,672) | 26,660,216 | 22,692,832 | 22,509,207 | 23,832,492 | 25,330,402 | 26,956,778 | 25,731,264 | 27,255,036 | 31,851,556 | 32,834,681 | 34,018,087 |
| III. Financing | | | | | | | | | | | | |
| Startup Funding Repayment | 87,500 | 7,637,500 | | | | | | | | | | • |
| Reserve Contribution | | 6,262,443 | 6,486,517 | 6,713,295 | 6,943,056 | 7,176,078 | 7,412,639 | 7,653,014 | 7,897,481 | 8,146,314 | 8,399,793 | 8,658,194 |
| Subtotal Financing | 87,500 | 13,899,943 | 6,486,517 | 6,713,295 | 6,943,056 | 7,176,078 | 7,412,639 | 7,653,014 | 7,897,481 | 8,146,314 | 8,399,793 | 8,658,194 |
| IV. Total Revenue Requirement | 1,403,172 | 143,800,794 | 145,956,616 | 152,036,459 | 156,686,954 | 161,247,624 | 165,771,828 | 173,247,106 | 178,079,462 | 179,952,620 | 185,559,933 | 191,094,968 |
| V. Net Surplus/(Deficit) | (1,403,172) | 12,760,273 | 16,206,315 | 15,795,912 | 16,889,437 | 18,154,324 | 19,544,139 | 18,078,250 | 19,357,555 | 23,705,242 | 24,434,888 | 25,359,893 |
| VI. Cumulative Reserve | | 6,262,443 | 12,748,960 | 19,462,255 | 26,405,310 | 33,581,388 | 40,994,027 | 48,647,041 | 56,544,522 | 64,690,836 | 73,090,629 | 81,748,824 |
| VII. Cumulative Net Surplus | (1,403,172) | 11,357,101 | 27,563,416 | 43,359,328 | 60,248,765 | 78,403,089 | 97,947,228 | 116,025,478 | 135,383,033 | 159,088,274 | 183,523,162 | 208,883,055 |
| VIII. Program Average Rate (\$/MWh) | | 65.8 | 67.8 | 69.8 | 71.9 | 73.9 | 75.9 | 78.0 | 80.1 | 82.2 | 84.4 | 86.5 |
| IX. Power Supply (\$/MWh) | | 50.4 | 54.2 | 56.2 | 57.7 | 59.1 | 60.5 | 63.0 | 64.5 | 65.3 | 67.1 | 68.9 |
| X. Program Average Cost (\$/MWh) | | 60.4 | 61.0 | 63.2 | 64.9 | 66.4 | 67.9 | 70.6 | 72.3 | 72.7 | 74.5 | 76.4 |
| XI. Annual Sales (MWh) | | 2,379,904 | 2,391,804 | 2,403,763 | 2,415,782 | 2,427,861 | 2,440,000 | 2,452,200 | 2,464,461 | 2,476,783 | 2,489,167 | 2,501,613 |

Exhibit 6 - All Santa Barbara County 50% Renewable Pro Forma

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| l. Revenue | | 156,561,067 | 162,162,930 | 167,832,371 | 173,576,391 | 179,401,948 | 185,315,967 | 191,325,356 | 197,437,017 | 203,657,862 | 209,994,821 | 216,454,861 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 127,017,386 | 135,779,407 | 140,721,284 | 144,444,843 | 148,036,579 | 151,547,796 | 157,963,954 | 161,749,459 | 163,923,925 | 168,531,988 | 173,017,950 |
| Staff | 583,333 | 3,500,000 | 3,587,500 | 3,677,188 | 3,769,117 | 3,863,345 | 3,959,929 | 4,058,927 | 4,160,400 | 3,500,000 | 3,500,000 | 3,500,000 |
| Marketing and Communications | 349,005 | 1,234,676 | 1,164,759 | 1,194,594 | 1,225,196 | 1,256,586 | 1,288,784 | 1,321,810 | 1,355,686 | 1,141,194 | 1,141,900 | 1,142,610 |
| Legal, Consulting, other Prof. Services | 300,000 | 1,500,000 | 1,537,500 | 1,575,938 | 1,615,336 | 1,655,719 | 1,697,112 | 1,739,540 | 1,783,029 | 1,500,000 | 1,500,000 | 1,500,000 |
| Data Management | | 1,898,527 | 1,908,014 | 1,917,550 | 1,927,134 | 1,936,753 | 1,946,435 | 1,956,166 | 1,965,931 | 1,975,746 | 1,985,623 | 1,995,536 |
| Utility Service Fees | | 431,280 | 426,917 | 436,131 | 445,605 | 455,346 | 465,364 | 475,666 | 425,709 | 427,814 | 429,931 | 432,056 |
| Miscellaneous Admin. & General | 83,333 | 500,000 | 512,500 | 525,313 | 538,445 | 551,906 | 565,704 | 579,847 | 594,343 | 500,000 | 500,000 | 500,000 |
| Uncollectibles/Other | | 782,805 | 810,815 | 839,162 | 867,882 | 897,010 | 926,580 | 956,627 | 987,185 | 1,018,289 | 1,049,974 | 1,082,274 |
| Subtotal Operating Expenses | 1,315,672 | 136,864,674 | 145,727,411 | 150,887,158 | 154,833,559 | 158,653,246 | 162,397,704 | 169,052,537 | 173,021,742 | 173,986,968 | 178,639,416 | 183,170,426 |
| Operating Margin | (1,315,672) | 19,696,393 | 16,435,520 | 16,945,213 | 18,742,832 | 20,748,702 | 22,918,263 | 22,272,819 | 24,415,275 | 29,670,894 | 31,355,405 | 33,284,434 |
| III. Financing Startup Funding Repayment | 102,500 | 9,167,500 | | | | | • | | | | | |
| Reserve Contribution | | 6,262,443 | 6,486,517 | 6,713,295 | 6,943,056 | 7,176,078 | 7,412,639 | 7,653,014 | 7,897,481 | 8,146,314 | 8,399,793 | 8,658,194 |
| Subtotal Financing | 102,500 | 15,429,943 | 6,486,517 | 6,713,295 | 6,943,056 | 7,176,078 | 7,412,639 | 7,653,014 | 7,897,481 | 8,146,314 | 8,399,793 | 8,658,194 |
| IV. Total Revenue Requirement | 1,418,172 | 152,294,617 | 152,213,928 | 157,600,453 | 161,776,615 | 165,829,323 | 169,810,343 | 176,705,551 | 180,919,223 | 182,133,282 | 187,039,209 | 191,828,621 |
| V. Net Surplus/(Deficit) | (1,418,172) | 4,266,450 | 9,949,003 | 10,231,918 | 11,799,776 | 13,572,624 | 15,505,624 | 14,619,805 | 16,517,794 | 21,524,579 | 22,955,612 | 24,626,240 |
| VI. Cumulative Reserve | | 6,262,443 | 12,748,960 | 19,462,255 | 26,405,310 | 33,581,388 | 40,994,027 | 48,647,041 | 56,544,522 | 64,690,836 | 73,090,629 | 81,748,824 |
| VII. Cumulative Net Surplus | (1,418,172) | 2,848,278 | 12,797,281 | 23,029,199 | 34,828,975 | 48,401,599 | 63,907,223 | 78,527,028 | 95,044,823 | 116,569,402 | 139,525,014 | 164,151,254 |
| VIII. Program Average Rate (\$/MWh) | , | 65.8 | 67.8 | 69.8 | 71.9 | 73.9 | 75.9 | 78.0 | 80.1 | 82.2 | 84.4 | 86.5 |
| IX. Power Supply (\$/MWh) | | 53.4 | 56.8 | 58.5 | 59.8 | 61.0 | 62.1 | 64.4 | 65.6 | 66.2 | 67.7 | 69.2 |
| X. Program Average Cost (\$/MWh) | • | 64.0 | 63.6 | 65.6 | 67.0 | 68.3 | 69.6 | 72.1 | 73.4 | 73.5 | 75.1 | 76.7 |
| XI. Annual Sales (MWh) | | 2,379,904 | 2,391,804 | 2,403,763 | 2,415,782 | 2,427,861 | 2,440,000 | 2,452,200 | 2,464,461 | 2,476,783 | 2,489,167 | 2,501,613 |

Exhibit 7 - All Santa Barbara County 75% Renewable Pro Forma

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| I. Revenue | | 156,561,067 | 162,162,930 | 167,832,371 | 173,576,391 | 179,401,948 | 185,315,967 | 191,325,356 | 197,437,017 | 203,657,862 | 209,994,821 | 216,454,861 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 136,994,213 | 145,646,244 | 150,493,869 | 154,470,758 | 158,364,525 | 162,186,871 | 168,968,425 | 173,085,439 | 175,506,123 | 180,364,952 | 185,156,829 |
| Staff | 583,333 | 3,500,000 | 3,587,500 | 3,677,188 | 3,769,117 | 3,863,345 | 3,959,929 | 4,058,927 | 4,160,400 | 3,500,000 | 3,500,000 | 3,500,000 |
| Marketing and Communications | 349,005 | 1,234,676 | 1,164,759 | 1,194,594 | 1,225,196 | 1,256,586 | 1,288,784 | 1,321,810 | 1,355,686 | 1,141,194 | 1,141,900 | 1,142,610 |
| Legal, Consulting, other Prof. Services | 300,000 | 1,500,000 | 1,537,500 | 1,575,938 | 1,615,336 | 1,655,719 | 1,697,112 | 1,739,540 | 1,783,029 | 1,500,000 | 1,500,000 | 1,500,000 |
| Data Management | • | 1,898,527 | 1,908,014 | 1,917,550 | 1,927,134 | 1,936,753 | 1,946,435 | 1,956,166 | 1,965,931 | 1,975,746 | 1,985,623 | 1,995,536 |
| Utility Service Fees | | 431,280 | 426,917 | 436,131 | 445,605 | 455,346 | 465,364 | 475,666 | 425,709 | 427,814 | 429,931 | 432,056 |
| Miscellaneous Admin. & General | 83,333 | 500,000 | 512,500 | 525,313 | 538,445 | 551,906 | 565,704 | 579,847 | 594,343 | 500,000 | 500,000 | 500,000 |
| Uncollectibles/Other | | 782,805 | 810,815 | 839,162 | 867,882 | 897,010 | 926,580 | 956,627 | 987,185 | 1,018,289 | 1,049,974 | 1,082,274 |
| Subtotal Operating Expenses | 1,315,672 | 146,841,502 | 155,594,248 | 160,659,743 | 164,859,474 | 168,981,191 | 173,036,779 | 180,057,007 | 184,357,723 | 185,569,166 | 190,472,380 | 195,309,305 |
| Operating Margin | (1,315,672) | 9,719,565 | 6,568,682 | 7,172,628 | 8,716,917 | 10,420,757 | 12,279,188 | 11,268,348 | 13,079,295 | 18,088,695 | 19,522,441 | 21,145,555 |
| III. Financing | | | | | | | | | | | | |
| Startup Funding Repayment | 102,500 | 9,167,500 | | | | , | | | | | | |
| Reserve Contribution | | 6,262,443 | 6,486,517 | 6,713,295 | 6,943,056 | 7,176,078 | 7,412,639 | 7,653,014 | 7,897,481 | 8,146,314 | 8,399,793 | 8,658,194 |
| Subtotal Financing | 102,500 | 15,429,943 | 6,486,517 | 6,713,295 | 6,943,056 | 7,176,078 | 7,412,639 | 7,653,014 | 7,897,481 | 8,146,314 | 8,399,793 | 8,658,194 |
| IV. Total Revenue Requirement | 1,418,172 | 162,271,444 | 162,080,765 | 167,373,038 | 171,802,530 | 176,157,269 | 180,449,418 | 187,710,022 | 192,255,203 | 193,715,481 | 198,872,173 | 203,967,500 |
| V. Net Surplus/(Deficit) | (1,418,172) | (5,710,377) | 82,165 | 459,333 | 1,773,861 | 3,244,679 | 4,866,549 | 3,615,334 | 5,181,814 | 9,942,381 | 11,122,648 | 12,487,361 |
| VI. Cumulative Reserve | | 6,262,443 | 12,748,960 | 19,462,255 | 26,405,310 | 33,581,388 | 40,994,027 | 48,647,041 | 56,544,522 | 64,690,836 | 73,090,629 | 81,748,824 |
| VII. Cumulative Net Surplus | (1,418,172) | (7,128,549) | (7,046,384) | (6,587,051) | (4,813,190) | (1,568,511) | 3,298,038 | 6,913,372 | 12,095,186 | 22,037,567 | 33,160,215 | 45,647,576 |
| VIII. Program Average Rate (\$/MWh) | | 65.8 | 67.8 | 69.8 | 71.9 | 73.9 | 75.9 | 78.0 | 80.1 | 82.2 | 84.4 | 86.5 |
| IX. Power Supply (\$/MWh) | | 57.6 | 60.9 | 62.6 | 63.9 | 65.2 | 66.5 | 68.9 | 70.2 | 70.9 | 72.5 | 74.0 |
| X. Program Average Cost (\$/MWh) | | 68.2 | 67.8 | 69.6 | 71.1 | 72.6 | 74.0 | 76.5 | 78.0 | 78.2 | 79.9 | 81.5 |
| XI. Annual Sales (MWh) | ı | 2,379,904 | 2,391,804 | 2,403,763 | 2,415,782 | 2,427,861 | 2,440,000 | 2,452,200 | 2,464,461 | 2,476,783 | 2,489,167 | 2,501,613 |

Exhibit 8 - Unincorporated Santa Barbara County RPS-Tracking Pro Forma

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|-------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| l. Revenue | | 80,827,550 | 83,353,846 | 85,911,542 | 88,503,408 | 91,132,196 | 93,800,647 | 96,511,498 | 99,267,484 | 102,071,345 | 104,925,832 | 107,833,708 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 63,167,842 | 67,945,133 | 70,761,437 | 72,919,922 | 74,951,598 | 76,966,000 | 80,238,610 | 82,521,579 | 84,089,589 | 86,706,738 | 89,367,346 |
| Staff | 583,333 | 3,500,000 | 3,587,500 | 3,677,188 | 3,769,117 | 3,863,345 | 3,959,929 | 4,058,927 | 4,160,400 | 3,500,000 | 3,500,000 | 3,500,000 |
| Marketing and Communications | 291,219 | 1,097,703 | 1,083,186 | 1,110,563 | 1,138,635 | 1,167,417 | 1,196,928 | 1,227,187 | 1,258,213 | 1,058,783 | 1,059,077 | 1,059,373 |
| Legal, Consulting, other Prof. Services | 300,000 | 1,500,000 | 1,537,500 | 1,575,938 | 1,615,336 | 1,655,719 | 1,697,112 | 1,739,540 | 1,783,029 | 1,500,000 | 1,500,000 | 1,500,000 |
| Data Management | | 665,105 | 668,424 | 671,780 | 675,144 | 678,530 | 681,926 | 685,344 | 688,771 | 692,221 | 695,679 | 699,161 |
| Utility Service Fees | | 173,579 | 163,903 | 167,659 | 171,522 | 175,496 | 179,584 | 183,791 | 162,909 | 163,702 | 164,498 | 165,299 |
| Miscellaneous Admin. & General | 83,333 | 500,000 | 512,500 | 525,313 | 538,445 | 551,906 | 565,704 | 579,847 | 594,343 | 500,000 | 500,000 | 500,000 |
| Uncollectibles/Other | 1 | 404,138 | 416,769 | 429,558 | 442,517 | 455,661 | 469,003 | 482,557 | 496,337 | 510,357 | 524,629 | 539,169 |
| Subtotal Operating Expenses | 1,257,885 | 71,008,366 | 75,914,914 | 78,919,434 | 81,270,637 | 83,499,674 | 85,716,187 | 89,195,803 | 91,665,581 | 92,014,652 | 94,650,622 | 97,330,347 |
| Operating Margin | (1,257,885) | 9,819,184 | 7,438,931 | 6,992,108 | 7,232,770 | 7,632,522 | 8,084,460 | 7,315,695 | 7,601,903 | 10,056,693 | 10,275,210 | 10,503,361 |
| III. Financing | 73 500 | 6 107 500 | | | | | | | | | | |
| Reserve Contribution | - 0 | 3,233,102 | 3,334,154 | 3,436,462 | 3,540,136 | 3,645,288 | 3,752,026 | 3,860,460 | 3,970,699 | 4,082,854 | 4,197,033 | 4,313,348 |
| Subtotal Financing | 72,500 | 9,340,602 | 3,334,154 | 3,436,462 | 3,540,136 | 3,645,288 | 3,752,026 | 3,860,460 | 3,970,699 | 4,082,854 | 4,197,033 | 4,313,348 |
| IV. Total Revenue Requirement | 1,330,385 | 80,348,968 | 79,249,068 | 82,355,895 | 84,810,774 | 87,144,961 | 89,468,213 | 93,056,263 | 95,636,280 | 96,097,506 | 98,847,655 | 101,643,695 |
| V. Net Surplus/(Deficit) | (1,330,385) | 478,582 | 4,104,778 | 3,555,647 | 3,692,634 | 3,987,234 | 4,332,434 | 3,455,235 | 3,631,203 | 5,973,840 | 6,078,177 | 6,190,013 |
| VI. Cumulative Reserve | , | 3,233,102 | 6,567,256 | 10,003,718 | 13,543,854 | 17,189,142 | 20,941,168 | 24,801,627 | 28,772,327 | 32,855,181 | 37,052,214 | 41,365,562 |
| VII. Cumulative Net Surplus | (1,330,385) | (851,804) | 3,252,974 | 6,808,621 | 10,501,255 | 14,488,489 | 18,820,923 | 22,276,158 | 25,907,361 | 31,881,201 | 37,959,378 | 44,149,391 |
| VIII. Program Average Rate (\$/MWh) | 1 | 65.8 | 67.5 | 69.2 | 71.0 | 72.7 | 74.5 | 76.3 | 78.0 | 79.8 | 81.7 | 83.5 |
| IX. Power Supply (\$/MWh) | ı | 51.4 | 55.0 | 57.0 | 58.5 | 59.8 | 61.1 | 63.4 | 64.9 | 65.8 | 67.5 | 69.2 |
| X. Program Average Cost (\$/MWh) | 1 | 65.4 | 64.2 | 66.4 | 68.0 | 69.5 | 71.0 | 73.5 | 75.2 | 75.2 | 76.9 | 78.7 |
| XI. Annual Sales (MWh) | ı | 1,228,384 | 1,234,526 | 1,240,699 | 1,246,902 | 1,253,137 | 1,259,402 | 1,265,699 | 1,272,028 | 1,278,388 | 1,284,780 | 1,291,204 |

Exhibit 9 - Unincorporated Santa Barbara County 50% Renewable Pro Forma

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| I. Revenue | | 80,827,550 | 83,353,846 | 85,911,542 | 88,503,408 | 91,132,196 | 93,800,647 | 96,511,498 | 99,267,484 | 102,071,345 | 104,925,832 | 107,833,708 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 65,608,392 | 70,153,778 | 72,742,449 | 74,751,626 | 76,623,200 | 78,466,192 | 81,555,546 | 83,642,858 | 85,002,227 | 87,397,147 | 89,821,308 |
| Staff | 583,333 | 3,500,000 | 3,587,500 | 3,677,188 | 3,769,117 | 3,863,345 | 3,959,929 | 4,058,927 | 4,160,400 | 3,500,000 | 3,500,000 | 3,500,000 |
| Marketing and Communications | 291,219 | 1,097,703 | 1,083,186 | 1,110,563 | 1,138,635 | 1,167,417 | 1,196,928 | 1,227,187 | 1,258,213 | 1,058,783 | 1,059,077 | 1,059,373 |
| Legal, Consulting, other Prof. Services | 300,000 | 1,500,000 | 1,537,500 | 1,575,938 | 1,615,336 | 1,655,719 | 1,697,112 | 1,739,540 | 1,783,029 | 1,500,000 | 1,500,000 | 1,500,000 |
| Data Management | | 665,105 | 668,424 | 671,780 | 675,144 | 678,530 | 681,926 | 685,344 | 688,771 | 692,221 | 695,679 | 699,161 |
| Utility Service Fees | ı | 173,579 | 163,903 | 167,659 | 171,522 | 175,496 | 179,584 | 183,791 | 162,909 | 163,702 | 164,498 | 165,299 |
| Miscellaneous Admin. & General | 83,333 | 500,000 | 512,500 | 525,313 | 538,445 | 551,906 | 565,704 | 579,847 | 594,343 | 500,000 | 500,000 | 500,000 |
| Uncollectibles/Other | • | 404,138 | 416,769 | 429,558 | 442,517 | 455,661 | 469,003 | 482,557 | 496,337 | 510,357 | 524,629 | 539,169 |
| Subtotal Operating Expenses | 1,257,885 | 73,448,916 | 78,123,560 | 80,900,446 | 83,102,341 | 85,171,276 | 87,216,379 | 90,512,740 | 92,786,860 | 92,927,290 | 95,341,031 | 97,784,309 |
| Operating Margin | (1,257,885) | 7,378,634 | 5,230,286 | 5,011,096 | 5,401,066 | 5,960,920 | 6,584,268 | 5,998,758 | 6,480,624 | 9,144,055 | 9,584,801 | 10,049,399 |
| III. Financing | | | | | | | | | | | | |
| Startup Funding Repayment | 77,500 | 6,617,500 | | | | | | | | | | |
| Reserve Contribution | | 3,233,102 | 3,334,154 | 3,436,462 | 3,540,136 | 3,645,288 | 3,752,026 | 3,860,460 | 3,970,699 | 4,082,854 | 4,197,033 | 4,313,348 |
| Subtotal Financing | 77,500 | 9,850,602 | 3,334,154 | 3,436,462 | 3,540,136 | 3,645,288 | 3,752,026 | 3,860,460 | 3,970,699 | 4,082,854 | 4,197,033 | 4,313,348 |
| IV. Total Revenue Requirement | 1,335,385 | 83,299,518 | 81,457,714 | 84,336,908 | 86,642,478 | 88,816,563 | 90,968,404 | 94,373,200 | 96,757,560 | 97,010,144 | 99,538,064 | 102,097,657 |
| V. Net Surplus/(Deficit) | (1,335,385) | (2,471,968) | 1,896,132 | 1,574,634 | 1,860,930 | 2,315,632 | 2,832,242 | 2,138,298 | 2,509,924 | 5,061,201 | 5,387,768 | 5,736,051 |
| VI. Cumulative Reserve | | 3,233,102 | 6,567,256 | 10,003,718 | 13,543,854 | 17,189,142 | 20,941,168 | 24,801,627 | 28,772,327 | 32,855,181 | 37,052,214 | 41,365,562 |
| VII. Cumulative Net Surplus | (1,335,385) | (3,807,353) | (1,911,221) | (336,587) | 1,524,343 | 3,839,975 | 6,672,218 | 8,810,516 | 11,320,440 | 16,381,641 | 21,769,409 | 27,505,460 |
| VIII. Program Average Rate (\$/MWh) | | 65.8 | 67.5 | 69.2 | 71.0 | 72.7 | 74.5 | 76.3 | 78.0 | 79.8 | 81.7 | 83.5 |
| IX. Power Supply (\$/MWh) | | 53.4 | 56.8 | 58.6 | 59.9 | 61.1 | 62.3 | 64.4 | 65.8 | 66.5 | 68.0 | 69.6 |
| X. Program Average Cost (\$/MWh) | | 67.8 | 66.0 | 68.0 | 69.5 | 70.9 | 72.2 | 74.6 | 76.1 | 75.9 | 77.5 | 79.1 |
| XI. Annual Sales (MWh) | | 1,228,384 | 1,234,526 | 1,240,699 | 1,246,902 | 1,253,137 | 1,259,402 | 1,265,699 | 1,272,028 | 1,278,388 | 1,284,780 | 1,291,204 |

Exhibit 10 - Unincorporated Santa Barbara County 75% Renewable Pro Forma

| | | | | 3 | 3 | | | 3 | | 3 | | |
|---|-------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------------------|--------------|--------------|--------------|--------------|
| l. Revenue | - 019 | 80.827.550 | 83.353.846 | 85.911.542 | 88.503.408 | 91.132.196 | 93,800.647 | 2026 96.511.498 | 99.267.484 | 102.071.345 | 104.925.832 | 107.833.708 |
| T INCACING | | 00,021,330 | 03,000,000 | 00,011,016 | 00,303,700 | 01,106,100 | | 70,711,770 | 55,401,404 | 104,01,010 | 101,713,031 | 101,000,100 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 70,752,936 | 75,241,688 | 77,779,902 | 79,924,314 | 81,951,715 | 83,955,229 | 87,227,997 | 89,486,191 | 90,983,269 | 93,518,891 | 96,107,137 |
| Staff | 583,333 | 3,500,000 | 3,587,500 | 3,677,188 | 3,769,117 | 3,863,345 | 3,959,929 | 4,058,927 | 4,160,400 | 3,500,000 | 3,500,000 | 3,500,000 |
| Marketing and Communications | 291,219 | 1,097,703 | 1,083,186 | 1,110,563 | 1,138,635 | 1,167,417 | 1,196,928 | 1,227,187 | 1,258,213 | 1,058,783 | 1,059,077 | 1,059,373 |
| Legal, Consulting, other Prof. Services | 300,000 | 1,500,000 | 1,537,500 | 1,575,938 | 1,615,336 | 1,655,719 | 1,697,112 | 1,739,540 | 1,783,029 | 1,500,000 | 1,500,000 | 1,500,000 |
| Data Management | • | 665,105 | 668,424 | 671,780 | 675,144 | 678,530 | 681,926 | 685,344 | 688,771 | 692,221 | 695,679 | 699,161 |
| Utility Service Fees | | 173,579 | 163,903 | 167,659 | 171,522 | 175,496 | 179,584 | 183,791 | 162,909 | 163,702 | 164,498 | 165,299 |
| Miscellaneous Admin. & General | 83,333 | 500,000 | 512,500 | 525,313 | 538,445 | 551,906 | 565,704 | 579,847 | 594,343 | 500,000 | 500,000 | 500,000 |
| Uncollectibles/Other | | 404,138 | 416,769 | 429,558 | 442,517 | 455,661 | 469,003 | 482,557 | 496,337 | 510,357 | 524,629 | 539,169 |
| Subtotal Operating Expenses | 1,257,885 | 78,593,461 | 83,211,470 | 85,937,899 | 88,275,030 | 90,499,791 | 92,705,415 | 96,185,191 | 98,630,194 | 98,908,332 | 101,462,775 | 104,070,138 |
| Operating Margin | (1,257,885) | 2,234,089 | 142,376 | (26,357) | 228,378 | 632,405 | 1,095,231 | 326,307 | 637,290 | 3,163,013 | 3,463,057 | 3,763,570 |
| III. Financing | | | | | | | | | | | | |
| Startup Funding Repayment | 77,500 | 6,617,500 | | | | | | | | | | |
| Reserve Contribution | | 3,233,102 | 3,334,154 | 3,436,462 | 3,540,136 | 3,645,288 | 3,752,026 | 3,860,460 | 3,970,699 | 4,082,854 | 4,197,033 | 4,313,348 |
| Subtotal Financing | 77,500 | 9,850,602 | 3,334,154 | 3,436,462 | 3,540,136 | 3,645,288 | 3,752,026 | 3,860,460 | 3,970,699 | 4,082,854 | 4,197,033 | 4,313,348 |
| IV. Total Revenue Requirement | 1,335,385 | 88,444,063 | 86,545,624 | 89,374,361 | 91,815,166 | 94,145,079 | 96,457,441 | 100,045,650 | 102,600,893 | 102,991,186 | 105,659,808 | 108,383,486 |
| V. Net Surplus/(Deficit) | (1,335,385) | (7,616,513) | (3,191,778) | (3,462,819) | (3,311,758) | (3,012,883) | (2,656,795) | (3,534,153) | (3,333,409) | (919,840) | (733,976) | (549,778) |
| VI. Cumulative Reserve | | 3,233,102 | 6,567,256 | 10,003,718 | 13,543,854 | 17,189,142 | 20,941,168 | 24,801,627 | 28,772,327 | 32,855,181 | 37,052,214 | 41,365,562 |
| VII. Cumulative Net Surplus | (1,335,385) | (8,951,898) | (12,143,677) | (15,606,495) | (18,918,253) | (21,931,137) | (24,587,931) | (28,122,084) | (31,455,493) | (32,375,334) | (33,109,310) | (33,659,088) |
| VIII. Program Average Rate (\$/MWh) | | 65.8 | 67.5 | 69.2 | 71.0 | 72.7 | 74.5 | 76.3 | 78.0 | 79.8 | 81.7 | 83.5 |
| IX. Power Supply (\$/MWh) | | 57.6 | 60.9 | 62.7 | 64.1 | 65.4 | 66.7 | 68.9 | 70.3 | 71.2 | 72.8 | 74.4 |
| X. Program Average Cost (\$/MWh) | | 72.0 | 70.1 | 72.0 | 73.6 | 75.1 | 76.6 | 79.0 | 80.7 | 80.6 | 82.2 | 83.9 |
| XI. Annual Sales (MWh) | | 1,228,384 | 1,234,526 | 1,240,699 | 1,246,902 | 1,253,137 | 1,259,402 | 1,265,699 | 1,272,028 | 1,278,388 | 1,284,780 | 1,291,204 |

Exhibit 11—City of Santa Barbara RPS-Tracking Pro Forma

| | 2010 | 2020 | 2021 | 2002 | 2022 | 2024 | 2025 | 2026 | 2027 | 2020 | 2020 | 2020 |
|--|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| I. Revenue | | 21.902.544 | 23.272.184 | 24.656.799 | 26.058.751 | 27.480.381 | 28.924.018 | 30.391.982 | 31 886 589 | 33.410.156 | 34.965.004 | 36.553.463 |
| l. Revenue | | 21,902,544 | 23,272,184 | 24,656,799 | 26,058,751 | 27,480,381 | 28,924,018 | 30,391,982 | 31,886,589 | 33,410,156 | 34,965,004 | 36,553,463 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | • | 18,913,576 | 20,343,912 | 21,160,448 | 21,683,519 | 22,202,960 | 22,737,477 | 24,213,970 | 24,781,316 | 24,836,882 | 25,644,778 | 26,299,792 |
| Staff | 279,000 | 558,000 | 566,370 | 583,361 | 600,862 | 618,888 | 637,454 | 656,578 | 676,275 | 696,564 | 717,461 | 738,984 |
| Marketing and Communications | 173,066 | 263,066 | 269,643 | 276,384 | 283,293 | 290,376 | 297,635 | 305,076 | 312,703 | 320,520 | 328,533 | 336,747 |
| Legal, Consulting, other Prof. Services | 220,000 | 420,000 | 430,500 | 441,263 | 452,294 | 463,601 | 475,191 | 487,071 | 499,248 | 511,729 | 524,522 | 537,636 |
| Data Management | | 515,858 | 518,438 | 521,033 | 523,641 | 526,263 | 528,899 | 531,548 | 534,212 | 536,889 | 539,580 | 542,271 |
| Utility Service Fees | | 71,726 | 72,062 | 72,401 | 72,741 | 73,083 | 73,427 | 73,772 | 74,120 | 74,469 | 74,820 | 75,171 |
| Miscellaneous Admin. & General | 30,000 | 60,000 | 61,500 | 63,038 | 64,613 | 66,229 | 67,884 | 69,582 | 71,321 | 73,104 | 74,932 | 76,805 |
| Uncollectibles/Other | • | 104,011 | 111,312 | 115,590 | 118,405 | 121,207 | 124,090 | 131,688 | 134,746 | 135,251 | 139,523 | 143,037 |
| Subtotal Operating Expenses | 702,066 | 20,906,237 | 22,373,737 | 23,233,516 | 23,799,369 | 24,362,607 | 24,942,058 | 26,469,286 | 27,083,941 | 27,185,408 | 28,044,149 | 28,750,443 |
| Operating Margin | (702,066) | 996,307 | 898,446 | 1,423,283 | 2,259,382 | 3,117,774 | 3,981,960 | 3,922,696 | 4,802,648 | 6,224,748 | 6,920,855 | 7,803,020 |
| III. Financing Startup Funding Repayment | | | | | | 800,000 | 800,000 | 800,000 | 800,000 | 800,000 | | |
| Reserve Contribution | | 876,102 | 930,887 | 986,272 | 1,042,350 | 1,099,215 | 1,156,961 | 1,215,679 | 1,275,464 | 1,336,406 | 1,398,600 | 1,462,139 |
| Subtotal Financing | ı | 876,102 | 930,887 | 986,272 | 1,042,350 | 1,899,215 | 1,956,961 | 2,015,679 | 2,075,464 | 2,136,406 | 1,398,600 | 1,462,139 |
| IV. Total Revenue Requirement | 702,066 | 21,782,339 | 23,304,625 | 24,219,788 | 24,841,719 | 26,261,822 | 26,899,019 | 28,484,965 | 29,159,405 | 29,321,814 | 29,442,749 | 30,212,582 |
| V. Net Surplus/(Deficit) | (702,066) | 120,205 | (32,441) | 437,011 | 1,217,032 | 1,218,559 | 2,024,999 | 1,907,017 | 2,727,185 | 4,088,342 | 5,522,254 | 6,340,882 |
| V. Cumulative Reserve | | 876,102 | 1,806,989 | 2,793,261 | 3,835,611 | 5,734,826 | 7,691,787 | 9,707,466 | 11,782,930 | 13,919,336 | 15,317,936 | 16,780,075 |
| VII. Cumulative Net Surplus/(Deficit) | (702,066) | (581,861) | (614,302) | (177,291) | 1,039,742 | 2,258,301 | 4,283,300 | 6,190,317 | 8,917,502 | 13,005,844 | 18,528,098 | 24,868,980 |
| VI. Program Average Rate (\$/MWh) | 1 | 58.3 | 61.7 | 65.0 | 68.4 | 71.8 | 75.2 | 78.6 | 82.0 | 85.5 | 89.1 | 92.6 |
| VII. Power Supply (\$/MWh) | | 50.4 | 53.9 | 55.8 | 56.9 | 58.0 | 59.1 | 62.6 | 63.7 | 63.6 | 65.3 | 66.7 |
| VIII. Program Average Cost (\$/MWh) | | 58.0 | 61.8 | 63.9 | 65.2 | 68.6 | 69.9 | 73.6 | 75.0 | 75.1 | 75.0 | 76.6 |
| IX. Annual Sales (MWh) | ı | 375,396 | 377,273 | 379,160 | 381,055 | 382,961 | 384,876 | 386,800 | 388,734 | 390,678 | 392,631 | 394,594 |

Exhibit 12—City of Santa Barbara 50% Renewable Pro Forma

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|-----------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|
| l. Revenue | | 21,902,544 | 23,272,184 | 24,656,799 | 26,058,751 | 27,480,381 | 28,924,018 | 30,391,982 | 31,886,589 | 33,410,156 | 34,965,004 | 36,553,463 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 19,918,700 | 21,238,616 | 21,946,825 | 22,392,327 | 22,828,813 | 23,274,733 | 24,656,722 | 25,123,384 | 25,071,797 | 25,765,773 | 26,299,792 |
| Staff | 279,000 | 558,000 | 566,370 | 583,361 | 600,862 | 618,888 | 637,454 | 656,578 | 676,275 | 696,564 | 717,461 | 738,984 |
| Marketing and Communications | 173,066 | 263,066 | 269,643 | 276,384 | 283,293 | 290,376 | 297,635 | 305,076 | 312,703 | 320,520 | 328,533 | 336,747 |
| Legal, Consulting, other Prof. Services | 220,000 | 420,000 | 430,500 | 441,263 | 452,294 | 463,601 | 475,191 | 487,071 | 499,248 | 511,729 | 524,522 | 537,636 |
| Data Management | | 515,858 | 518,438 | 521,033 | 523,641 | 526,263 | 528,899 | 531,548 | 534,212 | 536,889 | 539,580 | 542,271 |
| Utility Service Fees | | 71,726 | 72,062 | 72,401 | 72,741 | 73,083 | 73,427 | 73,772 | 74,120 | 74,469 | 74,820 | 75,171 |
| Miscellaneous Admin. & General | 30,000 | 60,000 | 61,500 | 63,038 | 64,613 | 66,229 | 67,884 | 69,582 | 71,321 | 73,104 | 74,932 | 76,805 |
| Uncollectibles/Other | | 109,037 | 115,786 | 119,522 | 121,949 | 124,336 | 126,776 | 133,902 | 136,456 | 136,425 | 140,128 | 143,037 |
| Subtotal Operating Expenses | 702,066 | 21,916,386 | 23,272,915 | 24,023,825 | 24,511,721 | 24,991,589 | 25,482,000 | 26,914,252 | 27,427,719 | 27,421,497 | 28,165,750 | 28,750,443 |
| Operating Margin | (702,066) | (13,842) | (731) | 632,974 | 1,547,030 | 2,488,793 | 3,442,018 | 3,477,731 | 4,458,871 | 5,988,659 | 6,799,254 | 7,803,020 |
| III. Financing | | | | | | | | | | | | |
| Startup Funding Repayment | ı | | | | | 800,000 | 800,000 | 800,000 | 800,000 | 800,000 | | |
| Reserve Contribution | | 876,102 | 930,887 | 986,272 | 1,042,350 | 1,099,215 | 1,156,961 | 1,215,679 | 1,275,464 | 1,336,406 | 1,398,600 | 1,462,139 |
| Subtotal Financing | | 876,102 | 930,887 | 986,272 | 1,042,350 | 1,899,215 | 1,956,961 | 2,015,679 | 2,075,464 | 2,136,406 | 1,398,600 | 1,462,139 |
| IV. Total Revenue Requirement | 702,066 | 22,792,488 | 24,203,802 | 25,010,097 | 25,554,071 | 26,890,804 | 27,438,961 | 28,929,931 | 29,503,183 | 29,557,904 | 29,564,350 | 30,212,582 |
| V. Net Surplus/(Deficit) | (702,066) | (889,944) | (931,618) | (353,298) | 504,680 | 589,577 | 1,485,058 | 1,462,051 | 2,383,407 | 3,852,252 | 5,400,654 | 6,340,882 |
| V. Cumulative Reserve | | 876,102 | 1,806,989 | 2,793,261 | 3,835,611 | 5,734,826 | 7,691,787 | 9,707,466 | 11,782,930 | 13,919,336 | 15,317,936 | 16,780,075 |
| VII. Cumulative Net Surplus/(Deficit) | (702,066) | (1,592,010) | (2,523,628) | (2,876,926) | (2,372,246) | (1,782,669) | (297,611) | 1,164,440 | 3,547,847 | 7,400,099 | 12,800,753 | 19,141,635 |
| VI. Program Average Rate (\$/MWh) | | 58.3 | 61.7 | 65.0 | 68.4 | 71.8 | 75.2 | 78.6 | 82.0 | 85.5 | 89.1 | 92.6 |
| VII. Power Supply (\$/MWh) | | 53.1 | 56.3 | 57.9 | 58.8 | 59.6 | 60.5 | 63.7 | 64.6 | 64.2 | 65.6 | 66.7 |
| VIII. Program Average Cost (\$/MWh) | | 60.7 | 64.2 | 66.0 | 67.1 | 70.2 | 71.3 | 74.8 | 75.9 | 75.7 | 75.3 | 76.6 |
| IX. Annual Sales (MWh) | | 375,396 | 377,273 | 379,160 | 381,055 | 382,961 | 384,876 | 386,800 | 388,734 | 390,678 | 392,631 | 394,594 |

Exhibit 13—City of Santa Barbara 75% Renewable Pro Forma

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|-----------|--------------|-------------|-------------|-------------|--------------|------------------------|--------------|--------------|--------------|--------------|-------------|
| l. Revenue | | 21,902,544 | 23,272,184 | 24,656,799 | 26,058,751 | 27,480,381 | 28,924,018 | 30,391,982 | 31,886,589 | 33,410,156 | 34,965,004 | 36,553,463 |
| II. Operating Expenses | | | | | | | | | | | | |
| Power Supply | | 21,500,057 | 22,802,413 | 23,498,536 | 23,977,113 | 24,461,340 | 24,956,440 | 26,404,035 | 26,923,334 | 26,894,255 | 27,610,464 | 28,183,227 |
| Staff | 279,000 | 558,000 | 566,370 | 583,361 | 600,862 | 618,888 | 637,454 | 656,578 | 676,275 | 696,564 | 717,461 | 738,984 |
| Marketing and Communications | 173,066 | 263,066 | 269,643 | 276,384 | 283,293 | 290,376 | 297,635 | 305,076 | 312,703 | 320,520 | 328,533 | 336,747 |
| Legal, Consulting, other Prof. Services | 220,000 | 420,000 | 430,500 | 441,263 | 452,294 | 463,601 | 475,191 | 487,071 | 499,248 | 511,729 | 524,522 | 537,636 |
| Data Management | • | 515,858 | 518,438 | 521,033 | 523,641 | 526,263 | 528,899 | 531,548 | 534,212 | 536,889 | 539,580 | 542,271 |
| Utility Service Fees | | 71,726 | 72,062 | 72,401 | 72,741 | 73,083 | 73,427 | 73,772 | 74,120 | 74,469 | 74,820 | 75,171 |
| Miscellaneous Admin. & General | 30,000 | 60,000 | 61,500 | 63,038 | 64,613 | 66,229 | 67,884 | 69,582 | 71,321 | 73,104 | 74,932 | 76,805 |
| Uncollectibles/Other | • | 116,944 | 123,605 | 127,280 | 129,873 | 132,499 | 135,185 | 142,638 | 145,456 | 145,538 | 149,352 | 152,454 |
| Subtotal Operating Expenses | 702,066 | 23,505,650 | 24,844,531 | 25,583,294 | 26,104,431 | 26,632,279 | 27,172,116 | 28,670,301 | 29,236,669 | 29,253,069 | 30,019,664 | 30,643,295 |
| Operating Margin | (702,066) | (1,603,106) | (1,572,348) | (926,495) | (45,680) | 848,102 | 1,751,903 | 1,721,682 | 2,649,921 | 4,157,087 | 4,945,340 | 5,910,169 |
| III. Financing | | | | | | | | | | | | |
| Reserve Contribution | | - 876.102 | 930.887 | 986.272 | 1.042.350 | 1.099.215 | 2,600,000 1.156.961 | 1,215,679 | 1,275,464 | 1.336.406 | 1.398.600 | 1.462.139 |
| Subtotal Financing | | 876,102 | 930,887 | 986,272 | 1,042,350 | 3,699,215 | 3,756,961 | 3,815,679 | 3,875,464 | 3,936,406 | 1,398,600 | 1,462,139 |
| | 702,066 | 24,381,752 | 25,775,419 | 26,569,566 | 27,146,781 | 30,331,494 | 30,929,076 | 32,485,980 | 33,112,132 | 33,189,475 | 31,418,264 | 32,105,433 |
| | | | | | | | | | | | | |
| V. Net Surplus/(Deficit) | (702,066) | (2,479,208) | (2,503,235) | (1,912,767) | (1,088,030) | (2,851,113) | (2,005,058) | (2,093,997) | (1,225,543) | 220,681 | 3,546,740 | 4,448,030 |
| V. Cumulative Reserve | | 876,102 | 1,806,989 | 2,793,261 | 3,835,611 | 7,534,826 | 11,291,787 | 15,107,466 | 18,982,930 | 22,919,336 | 24,317,936 | 25,780,075 |
| VII. Cumulative Net Surplus/(Deficit) | (702,066) | (3,181,274) | (5,684,509) | (7,597,276) | (8,685,306) | (11,536,418) | (13,541,477) | (15,635,474) | (16,861,017) | (16,640,336) | (13,093,596) | (8,645,566) |
| VI. Program Average Rate (\$/MWh) | | 58.3 | 61.7 | 65.0 | 68.4 | 71.8 | 75.2 | 78.6 | 82.0 | 85.5 | 89.1 | 92.6 |
| VII. Power Supply (\$/MWh) | | 57.3 | 60.4 | 62.0 | 62.9 | 63.9 | 64.8 | 68.3 | 69.3 | 68.8 | 70.3 | 71.4 |
| VIII. Program Average Cost (\$/MWh) | ı | 64.9 | 68.3 | 70.1 | 71.2 | 79.2 | 80.4 | 84.0 | 85.2 | 85.0 | 80.0 | 81.4 |
| IX. Annual Sales (MWh) | | 375,396 | 377,273 | 379,160 | 381,055 | 382,961 | 384,876 | 386,800 | 388,734 | 390,678 | 392,631 | 394,594 |