

SCV Water Self-Generation Incentive Program Projects

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SCV Water – Board of Directors

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Item No. 6.1

SCV Water Self-Generation Incentive Program Projects- Objectives

- Recommend Authorizing the General Manager to Enter Into Agreement with TerraVerde Energy for Application Preparation and Project Management of Self-Generation Incentive Program Projects (Photovoltaic and Battery Storage) Funding
- Describe Self-Generation Incentive Program
- Provide Overview of Feasibility Assessment Process
- Provide Overview of SGIP Projects
- Provide Overview of TerraVerde Energy SGIP Application and Project Management Support Scope of Work
- Next Steps

SGIP Overview

Self-Generation Incentive Program (SGIP)

- \$813 Million (2024)
- SCE → \$280 Million
- Base Level Incentive
- Resiliency Adder
- Equity Adder



Energy Resiliency and Battery Storage Objectives

- Conduct Analysis
- Cost-Effective Projects
- Reduce Demand
- Achieve Resiliency
- Maximize Incentive Funding



Energy Resiliency & Battery Storage Feasibility Analysis

- Cost-Benefit Analysis
- Electric Meter Data
- Demand Profiles
- Photovoltaic Potential
- Optimal Battery Sizing



Assessment Process Overview

Phase 1
Groups 1-3
(8 Sites)



Phase 2
Group 4
(12 Sites)

Status
SGIP Projects
(2 Sites)

SGIP Overview → Assessment Findings → SGIP Projects → Scope of Work → Next Steps

SGIP Projects

Earl Schmidt Treatment Plant

- Photovoltaic - 680 (kWdc)
- Battery Storage - 928 (kWh)
- Project Cost est. - \$1,892,652
- SGIP est. - \$459,000
- Solar Offset – 87%
- Annual BESS Demand – 1,311 (kW)
- Battery Back-up – 24 Hrs. (3.0%)
- Savings Term – 25 years
- Payback – 14 years



SGIP Projects

Rio Vista Treatment Plant

- Battery Storage - 2,088 (kWh)
- Project Cost est. - \$1,166,466
- SGIP est. - \$1,014,105
- Solar Offset – 42% (existing)
- Annual BESS Demand – 4,338 (kW)
- Battery Back-up – 24 Hrs. (4%)
- Savings Term – 15 years
- Payback – 4 years



SCV Water –SGIP Project

- TerraVerde Energy Contract Cost (3 Phases) - \$220,255
- SGIP Application Fee - \$73,806.00 (5% of the estimated value of the incentive; 100% refundable)
- Item for Consideration
 - CPUC Considering Adoption of Proposed NEM 3.0 (Net Metering Tariff)
 - Will not affect us if we have NEM 2.0 application before end of May 2022
 - CPUC has delayed consideration of proposal “Until Further Notice” based on public feedback

Next Steps (Project Schedule)

- Feb 2022 - BOD Approves Authorization
- Feb 2022 – Procure TerraVerde Energy Services
- Feb/Apr 2022 – SGIP Application (Phase 1)
- Feb/Apr 2022 – Request for Proposals (Phase 2a)
- Apr/June 2022 – Vendor Contract Negotiations (Phase 2b)
- June 2022 – BOD Authorization (Phase 2c)
- Jun 2022 thru Mar 2023 – Implementation Management & Construction (Phase 3)

*Scheduled updated from 1/12/2022 Water Resources Committee to reflect February BOD consideration (was scheduled for Jan. 2022)

Staff Recommendation

Recommend Authorizing the General Manager to Enter Into Agreement with TerraVerde Energy for Application Preparation and Project Management of Self-Generation Incentive Program Projects (Photovoltaic and Battery Storage) Funding

SCV Water Self-Generation Incentive Program Projects

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