SCV Water Self-Generation Incentive Program Projects

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Water Resources and Watershed Committee
January 12, 2022
Item No. 4

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

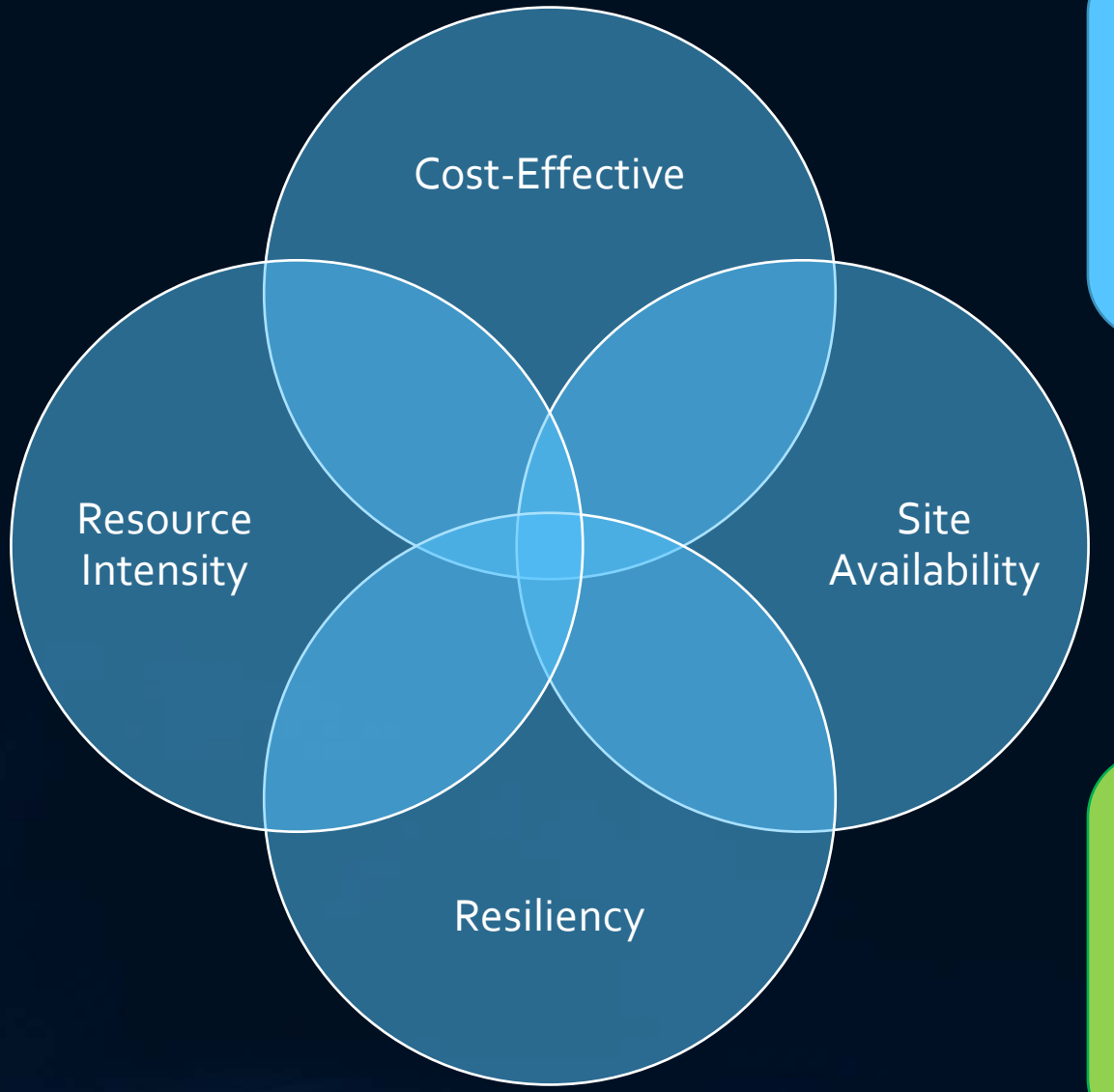
Energy Resiliency & Battery Storage Feasibility Analysis

- 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 Projects

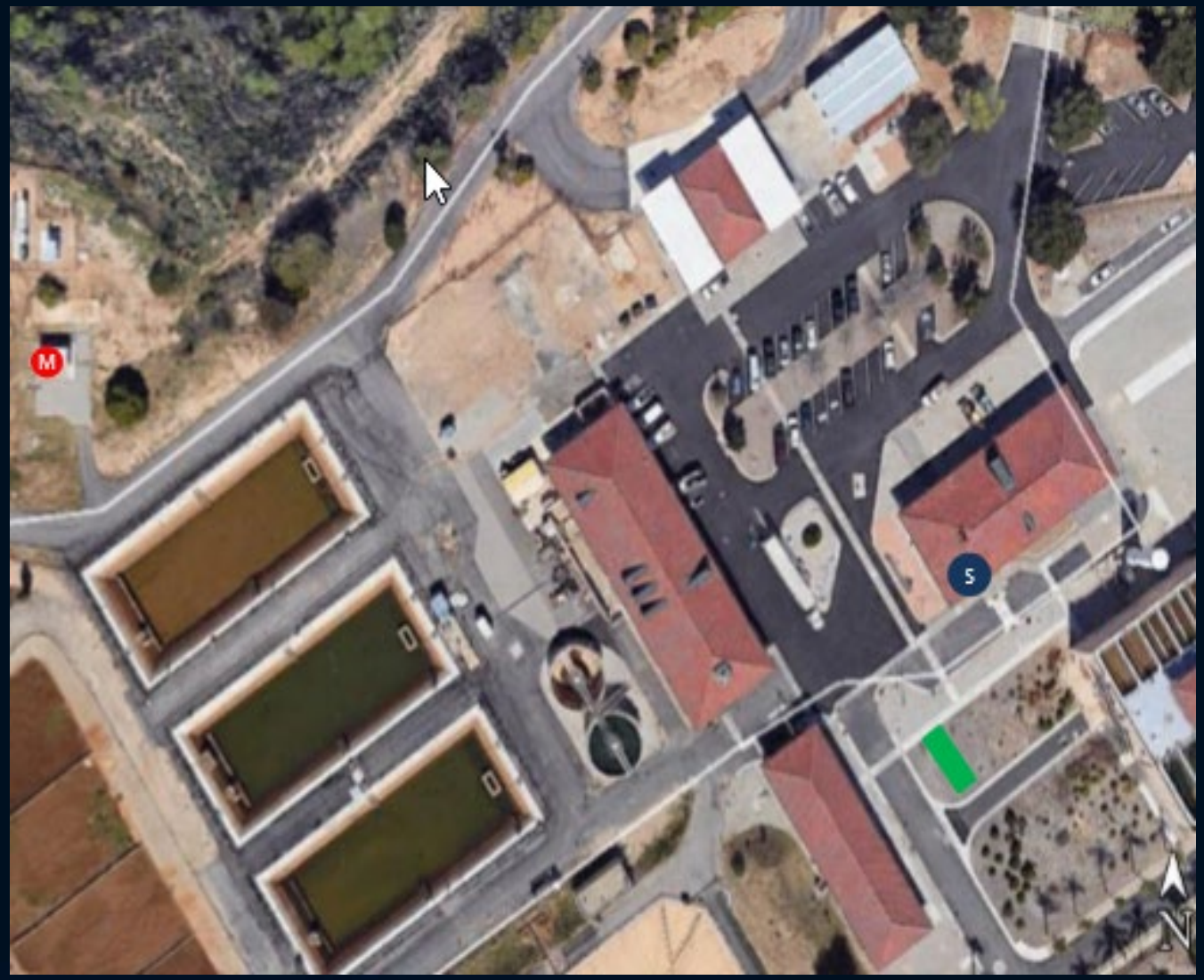
Earl Schmidt Treatment Plant

- 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 will not be able to stick to the current proposed decision, a final decision to be put forward after all parties heard by January 26, 2022.

Next Steps (Project Schedule)

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

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

Review of Energy Resiliency and Battery Storage Feasibility Assessment

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