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Wholesale and Net-Metered Renewable Generation Options

Presented to Las Gallinas Valley Sanitary District Board
February 9, 2012

Clean Energy Solutions

Our Presentation

- Who We Are
- Example Projects
- Renewable Options for LGVSD

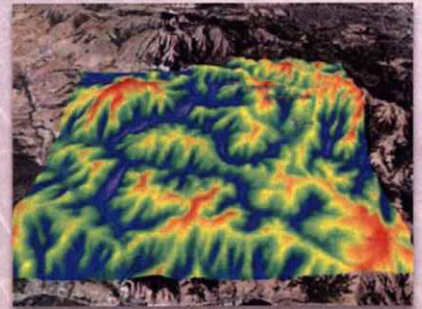


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Example Project | Marin Wind Study

- Technologies**
- Commercial Scale Wind
 - Commercial Scale Solar

- Services**
- Met tower installation
 - Resource assessment
 - Wind modeling with WASP
 - Siting and alternatives analysis
 - Production modeling
 - Visualizations
 - PV alternate study



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Example Project | McEvoy Ranch

- Technologies**
- Energy Efficiency
 - Commercial Scale Wind
 - Industrial Process Heat Design
 - Industrial Solar Thermal

- Services**
- Resource/site analysis
 - Production & financial modeling
 - Vendor selection
 - Permitting and advocacy
 - Electrical meter aggregation
 - Installation oversight
 - Commissioning certification
 - Ongoing operational support



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Example Project | San Mateo UHSD

- Technologies**
- Commercial Scale Solar PV
 - Energy Efficiency
 - Solar Thermal

- Services**
- Site analysis
 - Project modeling
 - Incentive management
 - RFQ/RFP/Vendor selection
 - Installation oversight
 - Commissioning certification
 - Ongoing technical support



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Example Project | Pebble Ridge Vineyard

- Technologies**
- Commercial Scale Wind
 - Commercial Scale Solar
 - Diesel to Electric Conversion
 - Water System Analysis

- Services**
- Resource Assessment
 - Financial Modeling
 - Alternatives Analysis
 - Generation
 - Hydraulic
 - Diesel to Electric Conversion



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Energy Services for Las Gallinas Valley SD

- Wholesale Generation**
 - Desktop feasibility study
 - Small utility scale wind & solar
 - Review production, financials and steps to implement
- Net Metering Study**
 - Tariff analysis for existing overproduction
 - Potential to offset other District meters
- Biogas Study**
 - Characterize gas
 - Alternatives analysis



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Wholesale Generation

Step 1 - Desktop Feasibility Study

- Compare wind and solar PV options
- Estimate renewable resources at the site
- Estimate production potential
- Review Feed-In-Tariff (FIT) values with MEA & PG&E
- High-level financial analysis
- Review financing options
- Review the steps to implement a wholesale project



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Wholesale Generation

Steps to Implement

1. Feasibility Study
2. Investment Grade Study
3. Planning, Permitting & Interconnection
4. Secure Interconnect Agreement, FIT, Permits & Financing
5. RFP & Vendor Selection
6. Construction & Commissioning
7. Project Operation



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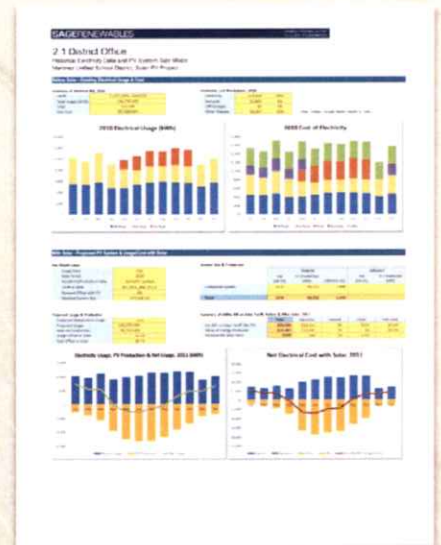
Net Energy Metering Options

Initial Study

- Explore tariff options for existing PV System over-generation (RES-BCT Tariff)
- Review other District meters & potential for net metered renewable generation
- Review energy usage of planned facility upgrades

Steps to Implement

- Incentive applications
- Implement meter aggregation tariff
- Conceptual design
- RFP & Vendor Selection
- Construction, Commissioning & RECs



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Biogas Study

Initial Study

- Characterize composition of gas
- Quantify the resource
- Alternatives analysis (on-site CHP, fuel cell, vehicle fuel, grid injection)
- Identify incentives
- High-level financial analysis

Steps to Implement

- Financial Modeling
- Solicit bids for preferred alternative
- Apply for incentives
- Commissioning



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