

Veolia North America

Sustainable Industries & Buildings

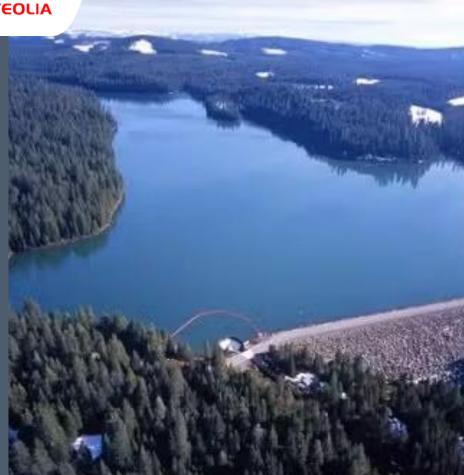
Solar Renewable Energy & Battery Energy Storage for the Georgetown Divide Public Utility District

Net Energy Metering Version 2.0 Program

California Energy Commission (CEC) Energy Conservation Assistance Act (ECAA) 1% Loan Program

Inflation Reduction Act (IRA) Federal Tax Credit / Grant

Prepared by: John J. Burdette III, CEM, CDSM, LEED AP



INTRODUCTIONS



John J. Burdette III, CEM, CDSM, LEED AP Senior Business Development Manager Sustainable Industries and Buildings (SIB) Enovity, a Veolia Company

Mobile: Email:

(530) 368-7886 john.burdette@veolia.com

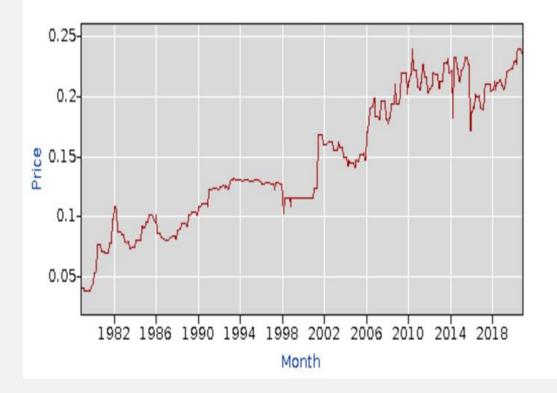








UTILITY COSTS ON THE RISE (PG&E TERRITORY)





476%	Total Price Increase over dataset
11.32%	Average Annual Increase

CPUC Decision Net Energy Metering (NEM 2.0)

- Reducing the economic value of going solar 50-75%
 from what it is today.
- Consumers get some of the best net metering benefits across the country under NEM 2.0
- Net Energy Metering Aggregation (NEM-A v2.0)
 is still available if we can get Interconnection
 Applications submitted by end of January 2024





CPUC Decision Net Energy Metering (NEM-A 2.0)

CPUC will grandfather older systems in and continue to uphold the original agreements. This means going solar now would most likely allow you to lock in the net metering 2.0 benefits for 20 years.





PUBLIC SAFETY POWER SHUTOFFS (PSPS) PG&E



- 1. High Winds
- 2. High Temperature
- 3. Low Humidity
- 4. Power can be shut off for days?

Proactive Power Shutoffs

One of our preventative measures to help protect against wildfires is **Public Safety Power Shutoff (PSPS)** events. These events may be called during extreme and potentially dangerous weather conditions.

WILDFIRES

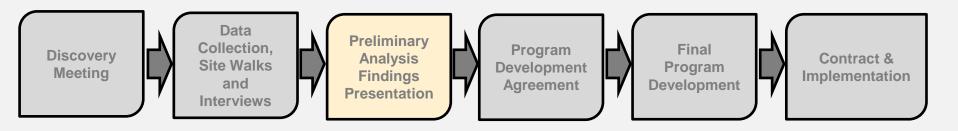


Air Quality Index - Particulate Matter

301-500	Hazardous			
201-300	Very Unhealthy			
151-200	Unhealthy			
101-150	Unhealthy for Sensitive Groups			
51-100	Moderate			
0-50	Good			



VEOLIA'S PROVEN (SIB) PROGRAM PROCESS



- Introduce SIB Program
- Identify Challenges/ Trends
- Identify Goals & Objectives
- Action Plan

- Collect facility information and square footages of your facilities.
- Collect and analyze your utility cost and consumption data.
- Identify any existing technical issues or deferred maintenance scope items..

- Select Scope of Work Measures to include in the program development process
- · Estimated Savings
- Estimated Implementation Costs
- Estimated
 Greenhouse Gas
 Emission
 Reductions

- Verify Detailed Scope of Work
- Funding Solution
- Identify and Apply for Rebates, Grants and Incentives
- Confirm Schedule
- Review Financial
 Performance
- Draft Program
 Contract Review

- Finalize Funding Solutions
- Post Two Week
 Notice for CA
 Government Code
 4217 Compliance
- Public Hearing & Resolution During Regularly Scheduled Board Meeting
- Present Final Guaranteed Costs & Savings

- Execute Contract
- Implementation
- Measurement & Verification (M&V)
- Energy Management Services
- Hubgrade

Board Resolution

Environmental solutions for business, industry and communities

PROGRAM GOALS – Georgetown Divide PUD

Where do you go from here?



- 1. To reduce long-term cost savings through reduced electricity, gas and water usage
- 2. Upgrade antiquated and inefficient equipment
- 3. To reduce carbon footprint and greenhouse gas emissions
- 4. To secure grants, rebates and incentives that are available to help reduce cost
- 5. Provide a comfortable and safe environment for all occupants of GTD PUD facilities
- 6. Minimize the financial and technical risk to the GTD PUD
- 7. Provide comprehensive funding solution to the GTD PUD
- 8. ZEV Infrastructure Planning and Implementation

COMMON ENERGY CONSERVATION MEASURES FOR WATER DISTRICTS

Facility & Infratruture Controls System (BAS)

- Energy Dashboards with Analytics
- New Building Controls Systems
- Integrating Existing Controls Systems
- Occupancy Control Systems
- Control System Maintenance
- Measurement & Verification Systems

Energy Education & Training

- Conservation Curriculum
- Dedicated On-Site Resources
- Energy Policy Development
- Climate Action Planning (CAP)
- Energy Kiosks
- Energy Management Services

Building Envelope

- Window Replacements / Upgrades
- Door Systems
- Cool Roof Systems
- Wall Insulations
- Weather Stripping

Renewable & Non-Renewable Energy Generation & Storage

- Landfill Gas Capture
- Solar Photovoltaic
- Solar Thermal
- Battery Storage
- EV Charging Stations
- Biogas Cogeneration
- Geothermal
- Wind Turbines
- Generation System Maintenance

Other Systems & Services

- Lighting Systems
- Daylight Harvesting
- Street Lighting
- Traffic Lighting
- Interior & Exterior Lighting Retrofits
- Occupancy Sensors
- Exit Sign LED Retrofits
- Dimming Systems
- Bi-Level Switching
- Lighting Maintenance Services

Water / Wastewater Management

- Pumping Optimization
- Irrigation Controls & Retrofit
- Weather Based Irrigation Systems
- AMR Automated Meter Reading
- AMI Advanced Meter Infrastructure
- Wastewater Treatment Upgrades
- Waste Water Treatment Maintenance

HVAC Systems

- Central Utility Plants
- Central Plant Optimization
- HVAC Equipment Replacements
- Variable Speed HVAC Controllers
- Demand Control Ventilation
- Piping System Retrofits
- Air Handling System Retrofits
- Waterside Economizers
- Water Treatment Systems
- HVAC System Maintenace

Oil Reclying Programs

Intrusion Security Systems

Smart City Technologies

CCTV Security Systems

Fire Alarm Systems

- Computer Power Management
- High Efficiency PC's
- Vending Machine Controls
- Power Factor Correction
- Program & Construction Management
- Master Planning

District HQ Administration Facility

- HVAC
- Insulation / Weather Proofing
- LED Lighting Upgrades
- ZEV Infrastructure
- Solar Renewable Energy Generation
- NEM-A v2.0 Opportunity
- Hubgrade



Sweetwater Trail Water Treatment Plant

- Pump VFD's
- VFD Repairs
- LED Lighting Upgrades
- ZEV Infrastructure
- Solar Renewable Energy Generation
- Battery Energy Storage System (BESS)
- (Optional) Microgrid Controls
- Hubgrade



Walton Lake Water Treatment Plant

- Hard to locate solar array on roof and or ground mounted.
- Potential candidate for floating solar array.
- Veolia does not recommend that we install a floating solar array due to the dredging that needs to be done at this location.



ENVIRONMENTAL BENEFITS

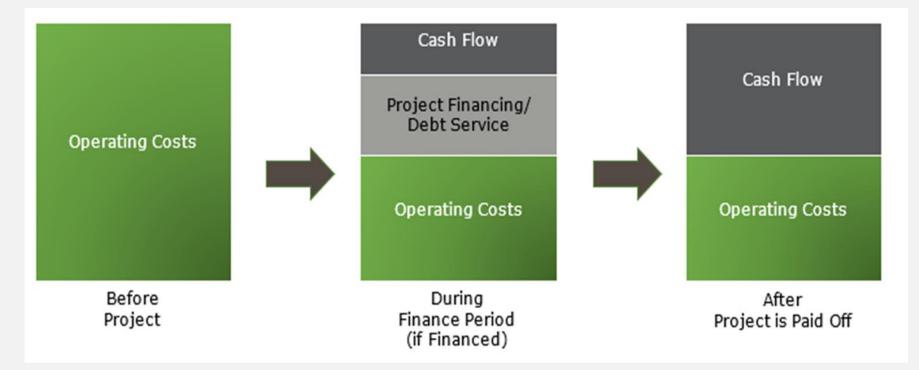


245 Metric Tons v of Carbon Dioxide (CO₂) equivalent

This is equivalent to greenhouse gas emissions from:

Th	54.6	gasoline-powered passenger vehicles driven for one year ⑦ CO2 emissions from:		629,229	miles driven by an average gasoline-powered passenger vehicle 🥎	
	is is equivalent to					
	27,619	gallons of gasoline consumed ⑦		24,111	gallons of diesel consumed ⑦	
	274,944	pounds of coal burned (?)		3.2	tanker trucks' worth of gasoline ⑦	
	30.9	homes' energy use for one year ⑦	^	47.8	homes' electricity use for one year ⑦	ł

BUDGET NEUTRALITY



FUNDING SOLUTIONS Leveraging Available Funding & Federal ITC Grants

California Energy Commission (CEC) Energy Conservation Assistance Act (ECAA) One Percent (1.0%) Interest Loan Program

Veolia has completed the required feasibility study and all application forms and has submitted application to secure \$3,000,000.00 through this program subsidized by the State of California.

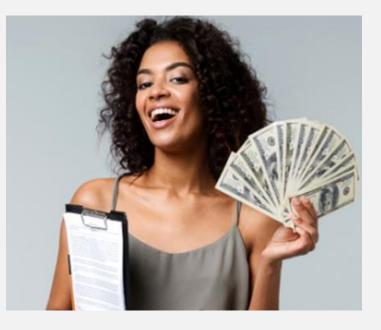
Inflation Reduction Act (IRA) 30% Investment Tax Credit/Grant Direct Payment to Municipalities

Veolia assist the Georgetown Divide PUD to apply for and secure the direct payment from the US Treasury. We may be able to get an additional 10% as a bonus for "Disadvantaged Community". Will confirm during final program development phase. (Non-Competitive)

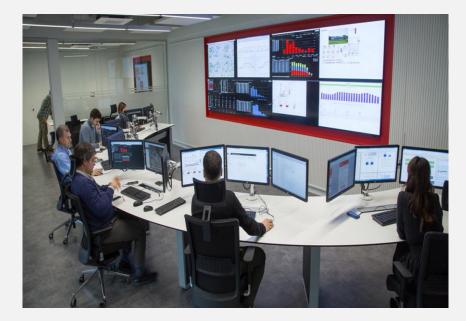


FINANCIAL PERFORMANCE CEC ECAA Loan & Federal ITC

- Provides Return on Investment (ROI) = 617%+
- Secures Federal ITC <u>Direct Cash Payment from US</u> <u>Treasury</u> up to <u>\$426,044</u> maybe more if we get additional (10%) for disadvantaged community.
- Energy Efficiency and Conservation Block Grant (EECBG) opportunity as well. Applications are due in April 2024.
- Distributed Electricity Backup Assets (DEBA) Grant program will help pay for Battery Energy Storage System (BESS) at Sweetwater Trail Water Treatment Facility.



Hubgrade Advanced Intelligence coupled with Human Experience





Georgetown Divide PUD Sustainability Journey

•	Introduction to Veolia's Facility & Building Services (FBS) Program	06-2023
•	Utility and Site Data Collection	07-2023
•	Preliminary Site Walks	07-2023
•	Preliminary Utility Data Analysis	09-2023
•	Presentation of the Preliminary Analysis and ECM Selection	10-2023
•	Board to Approve Memorandum of Agreement (MOA) for final program development	12-2023
•	Board Meeting to pass resolution to apply for CEC ECAA Loan funding option	01-2024
•	PG&E Interconnection Applications have been uploaded and submitted NEM-A v2.0	01-2024
•	Master Services Agreement (MSA) contract negotiations	TBD
•	Post Two Week Public Notice as required by CA Gov't Code 4217	TBD
•	Board Meeting Public Hearing and Resolution Approving Veolia Contract & Financing	TBD



Veolia's Brings Value!

- Leverage of Tax Incentives and Grant Funding: Veolia aids the client in identifying and applying for grants, rebates and incentives.
- <u>Upgrade to Energy Efficient Equipment</u>: Upgrade today and pay for it with future energy savings. No need for capital funds or additional funding, just re-directs funds already in the budget for utilities and O&M to these smart investments.
- <u>Perform Capital Improvements</u>: Capital Budget Avoidance
- <u>Decrease Operating Costs (Utility and O&M)</u>: Veolia helps stabilize budgets from volatility in the energy marketplace and once the debt service is paid in full, all subsequent energy cost savings are realized, and operating budgets are permanently lowered.
- <u>Hedge Against Historical High Utility Escalation Rates</u>: PG&E has high electric escalation rates as illustrated by the data over the last 40 years. Veolia will help hedge against these inflationary pressures.
- <u>Resolve Deferred Maintenance Items</u>: Some clients do not have the capital or operating budgets to perform required equipment and system maintenance. (e.g. chillers, boilers, cooling towers, controls, electrical upgrades, air handlers, pumps, valves, etc.) Veolia can integrate these services in the long-term O&M contract.
- <u>Create Long Term and Sustainable Energy Efficient Systems</u>: Hubgrade energy & carbon footprint reduction dashboards.

Veolia Brings Value!

- <u>Guaranteed Performance</u>: Veolia's typically install systems and equipment that it guarantees will generate savings for the payback period of the loan. If a piece of equipment fails during the payback period of the project, Veolia is responsible for replacing it.
- **<u>Responsibility</u>**: Veolia is obligated to pay in the event of an energy savings shortfall and must guarantee the energy savings. If actual savings are lower than guaranteed, Veolia reimburses the owner for the shortfall.
- <u>Measurement & Verification</u>: Annul energy savings verification is conducted per the International Performance Measurement & Verification Protocol (IPMVP), an industry standard to prove the savings is being achieved.
- <u>Accountability</u>: Veolia serves as the single point of accountability. No finger pointing between consultants, subcontractors and equipment manufactures / vendors.
- **<u>Financing Solutions</u>**: Veolia assists the Owner in identifying rebate, incentives, and low interest financing options that are available.
- **<u>Cost Certainty</u>**: Project cost is guaranteed. No change orders.
- <u>Water Treatment Infrastructure Experience</u>: No competitor of ours has more experience working on water and wastewater infrastructure than Veolia.



Questions?

