



Statewide Water Infrastructure and System Efficiency™ Program

Operate your water system at maximum efficiency.

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August 22, 2022



A photograph of a water treatment plant with several large cylindrical tanks and a complex network of blue metal pipes and walkways under a cloudy sky.

– SW WISE Program Implementation Plan (IP) Stakeholder Workshop

Purpose: Inform, educate, and solicit stakeholder feedback about the Statewide Water Infrastructure and System Efficiency™ Program.

Presentation Guidelines:

- Please hold off on asking questions until the end of the presentation or direct your questions in the chat at any time during the presentation.
- Time has been reserved at the end of the presentation to answer questions.
- After the presentation, please email comments and questions to George.Coronel@sce.com. The implementer will consider comments and questions submitted before or on August 26th.

Agenda



Program Overview

Program Budget and Savings

Innovation & Best Practices

Measure Offerings

Program Delivery

Program Goals and Timelines

Discussion



Program Overview



Statewide Water Infrastructure and System Efficiency™ (SW WISE™) Program offers energy efficiency solutions, incentives, and engineering services for Water/Wastewater Pumping Customers in Pacific Gas and Electric (PG&E), Southern California Edison (SCE), Southern California Gas (SCG) and San Diego Gas and Electric (SDG&E) territories.

Program manages a Trade Ally Network serving manufacturers, distributors, contractors, and engineering designers in the water and wastewater segment.



Program Description

SW WISE™ Program serves Water/Wastewater Pumping Customer facilities/systems

- Water & Wastewater Agencies
- Private Water Companies
- Special Districts
- Joint Power Authorities
- Local Government Agencies
- Water Investor-Owned Utilities (IOUs)
- Oil and Gas Water Pumping Customers
- Other Pumping and Treatment Customers



SOURCE WATER PUMPING



WATER TREATMENT



WATER DISTRIBUTION



WASTEWATER TREATMENT



OIL & GAS WATER PUMPING



— Program Summary

Program Segment: Resource Acquisition

Market Channel: Downstream

Program Cycle Period: 2022-2025

Key Performance Metrics

Intervention Strategies

- Incentives
- Financing
- Audits
- Technical Assistance

- Energy Savings Delivery (kWh, Therms, and kW)
- Cost Effectiveness
- Customer Satisfaction
- Enrollment in Hard to Reach/Disadvantaged Communities (HTR/DAC)

HTR/DAC Project Targets

- 40% Net kWh
- 40% Incentives/Rebates



Program Budget and Savings

Program Budget	2023	2024	2025	Total
Total	\$4,881,218	\$5,300,000	\$5,300,000	\$15,481,218
Program Savings Goals	2023	2024	2025	Total
Gross Demand Reduction (kW)	1,667	1,260	933	3,860
Net Demand Reduction (kW)	1,000	756	560	2,316
Gross Energy Savings (kWh)	8,894,493	12,988,226	11,959,443	33,842,163
Net Energy Savings (kWh)	5,822,726	9,109,746	8,468,478	23,400,950
Gross Therm Savings	93,309	204,663	158,969	456,941
Net Therm Savings	43,542	98,376	74,429	216,347



– Innovation & Best Practices

Statewide WISE™ incorporates the following innovative approaches and best practices:

- Trade Ally Network provides customers access to enrolled, trained, and knowledgeable designers, manufacturers, distributors, and contractors to continue to offer EE for the long-term.
- Leverages established customer relationships to overcome barriers associated with customer:
 - Aversion to risk
 - Complex decision making
 - Repair/replace upon failure maintenance practices
 - Short-term and start/stop program cycles
- Measurement and verification solutions for varying availability of water sources
- Optimized funding options including maximize incentive, financing/grants, and access to ESCOs



– Customized EE Measures & Incentives

Customized Measures

- Pump Overhauls and Rightsizing
- Wastewater Process Equipment Retrofits
- Pump System, Wastewater Process and Water Shutoff Controls
- Fans, Pumps, and Blowers VFDs
- Boiler/HW/Steam System Retrofits

Incentive Rates	\$/kWh	\$/kW	\$/therm	Incentive Cap
Above Code	\$0.12	\$150	\$1.50	50% of project cost for AOE measures and 100% of incremental cost of NC and NR MATs
BRO & To Code	\$0.06	\$150	\$0.75	50% of Project cost

2023-2025 Incentive rates based on gross 1st year savings.

Bonus custom incentives available for project completions by 12/31/2023 capped at 100% the IOU eligible measure cost.



Deemed EE Measures & Rebates

Measure Package List

#	Measure Package	Measure Description	Rebates
1	SWWP004-02	WATER PUMP UPGRADE	100% Incremental Measure Cost
2	SWWP002-02	VFD ON WELL PUMP, <=300 HP	\$107/HP for Boosters \$99/HP for Wells Elevated to 100% Incremental Measure Cost in 2023
3	SWWH017-02	HOT WATER PIPE INSULATION, NONRESIDENTIAL & MUTLIFAMILY	\$3/Unit





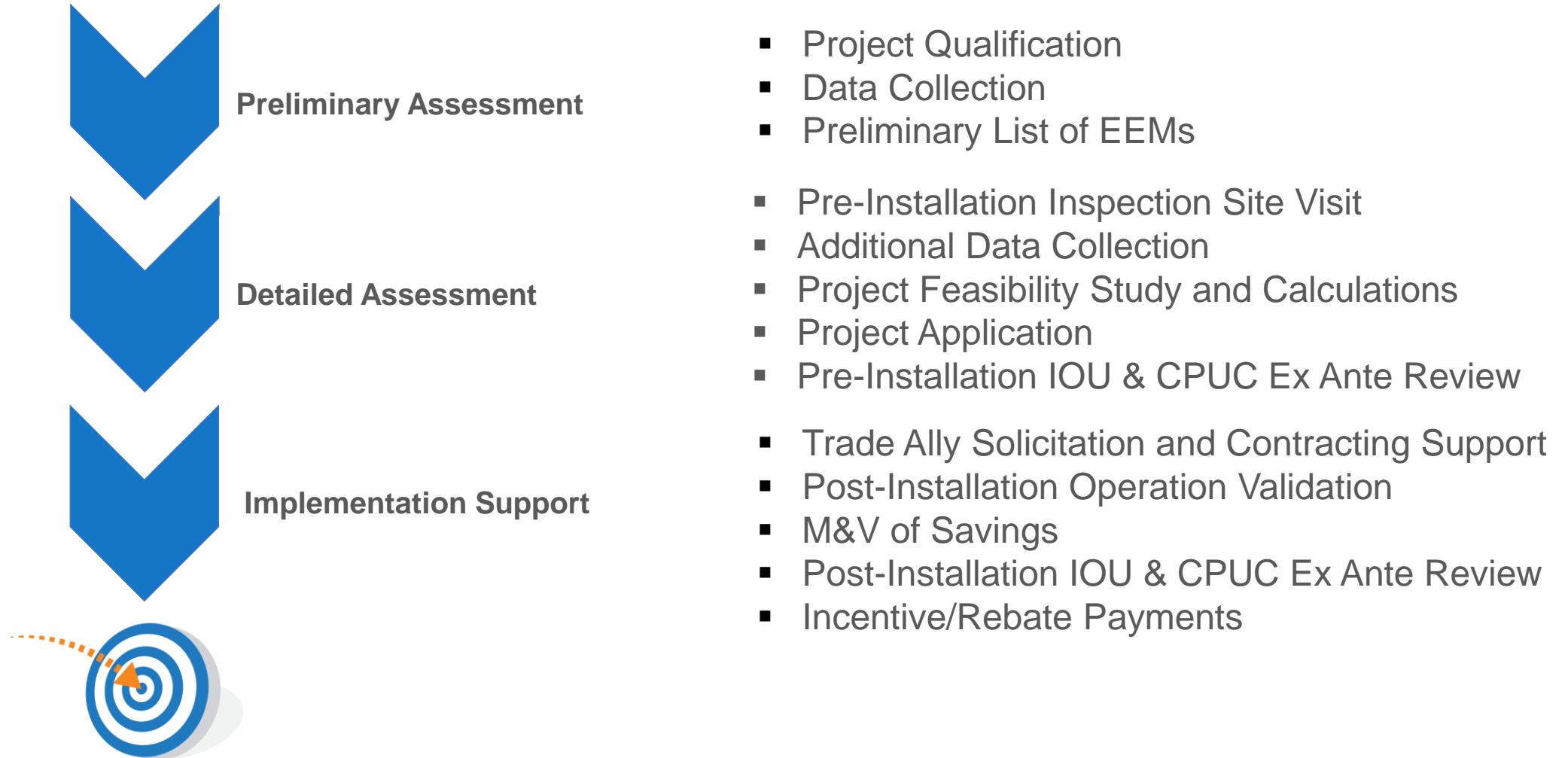
Eligibility

Participant Eligibility Requirements

- Water/Wastewater Pumping Customer
 - Engages in water production, water/wastewater distribution, or water/wastewater treatment, irrigation, facility water pumping, or surface transport pumping
 - Engages in oil or gas water pumping or treatment, including steam systems
 - Engages in water/steam injection/reinjection, distribution and disposal, surface transport pumping, or irrigation/agricultural pumping
- NAICS Codes: 111, 1125, 211, 213112, 2213, 237110, 33391, 486990
- Receives electric or gas service from PG&E, SCE, SCG, or SDG&E and pays the Public Purpose Programs (PPP) charge
- Meets program pre-qualifications and energy efficiency measure requirements
- Not receive incentives for the same measures or scope of work from other public purpose programs
- Adhere to all applicable federal, state, and local laws and code



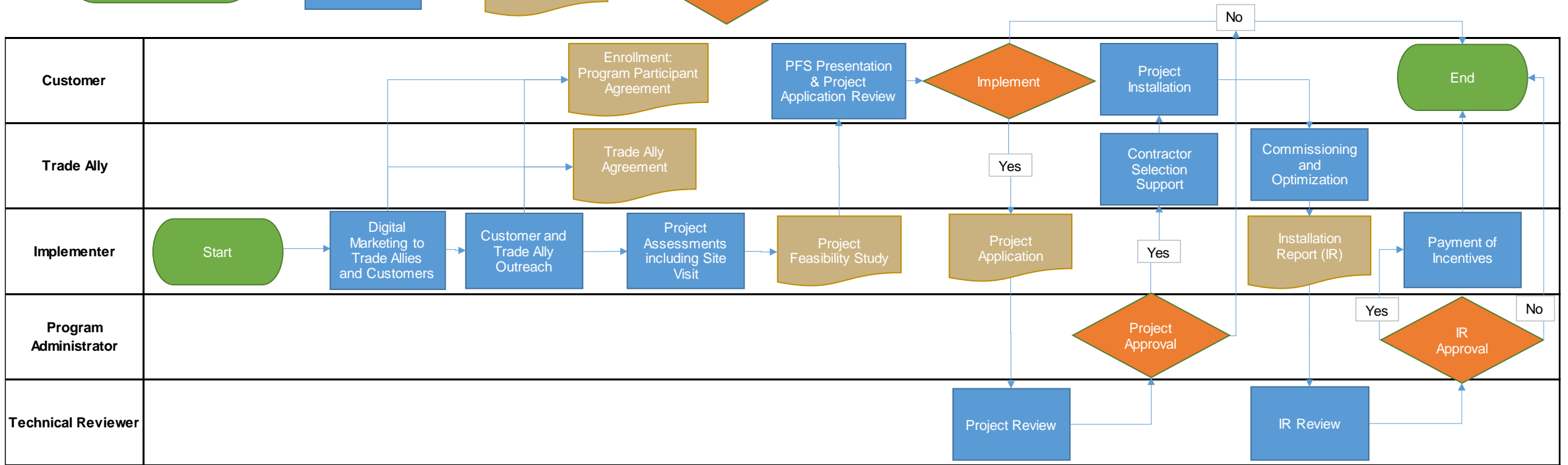
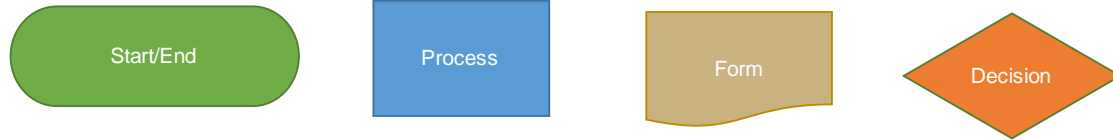
Program Delivery: Customer Service





Program Flow

LEGEND





Program Goals and Timelines

Phase	Key Deliverable(s) / Milestone(s)	Dates/Duration
Launch Readiness	• Implementation Plan	07/20/2022 - 9/20/2022
	• EEM M&V Plan	
	• Program Management Plan	
	• Program Marketing	
	• Materials	
Program Launch	Date Program is Available to Customers	9/21/2022
Program Readiness	• Marketing Plan Implemented	9/21/2022 - 12/31/2022
	• Pipeline Development	
	• Energy Savings	
	• Measure Package	
	• Development / Updates	
Program Steady State	• Energy Savings	01/01/2023 - 12/31/2024
	• Measure Package Development / Updates	
Program Ramp Down / Transition	• Program Ramp-Down Plan	01/01/2025 - 10/31/2025
	• Energy Savings	
Measurement & Payment ¹	Date Program is No Longer Available to Customers	11/01/2025
	Completion of energy savings reporting/payments, if required	11/01/2025 - 12/31/2025

¹ Period the program is no longer accepting deemed applications or installation report. This is the period the program is performing final rebate and incentive processing.

Discussion

Stakeholder Questions & Comments



Contacts

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Thank you



Program Logic Model Barriers and Activities

SW WISE™ Logic Model									
	A	B	C	D	E	F	G	H	I
Risks & Barriers	Short-Term Program Cycle with Long-Term Projects	Customer risk aversion	Infrastructure Longevity / indefinite repair only upon failure	Limited funding availability	Limited staff focused on operations / environmental compliance	Complex decision making process	Start-stop program cycles	Industry standard practice and lower cost-effectiveness	Utility Program Participation added workload
Activities	Enrollment through established relationships	Case Studies	Energy and Asset Management	OBF and Bridge Funding	Engineering assessments	Standardized Energy Management approach	Train and Equip Trade Allies	Trade Allies identify new measures	Technical and financial support
	Sales through trade ally network	Demonstration Projects	System Life-Cycle Cost Analysis	Facilitate ESCO Performance Contracting	Specialized verification support	Board Presentation assistance	Customer scheduling until completion	Develop Workpapers on new Technologie	Increased incentives for complicated long EUL
	Digital Marketing	Trade Ally testimonials	Energy Data Vizualization	External funding (EPIC, DOE, ...)	Project support	Phased project approach	Turnkey ESCO options	TRC monitoring and measure sunset	Customer Centric Approach



Program Logic Model Outcomes

SW WISE™ Logic Model									
	A	B	C	D	E	F	G	H	I
Outputs	CO2-equivalent of net annual savings		Life Cycle Ex-ante Gross & Net kW, kWh &		First year Ex-ante Gross & Net kW, kWh & therms		PAC Levelized Cost (\$/kWh & \$/therm)		Cost effective TRC ratio
Short-term Outcomes (1-3 years)	Participating Trade Allies stock & promote higher efficiency equipment to other Stakeholders		Increased energy savings	Increased market adoption of uncommon EE technologies for this		Customers understand the significant and costly energy in their water systems		Install EE projects on water/wastewater systems	
Mid-Term Outcomes (4-6 years)	Increased Distributor stock of higher-efficiency equipment across CA (Spill over effect)		Increased sales of higher efficiency equipment by all Stakeholders		Increased installation of higher efficiency equipment (Retrofit & New Construction)		Operations staff consider energy management when operating their water systems		ISO50001 Energy Management becomes part of customer's operation culture
Long-Term Outcomes (7-10 years)	Environmental and Non-Energy Benefits achieved	Energy Savings	Develop new equipment efficiency standards at the State & Federal Level		EE technologies and processes become standard practice in this Customer Segment		Increased market penetration of higher efficiency equipment		Measureable reduction in kW, kWh, Therm Usage across entire segment