

### **EOP GOALS**

- 1. Roadmaps to strategically and systematically optimize energy use in Santa Rosa Water's systems
  - Reduce energy usage, energy costs, and GHG emissions
  - Move towards energy independence
- 2. Support City Council Goal Promote Environmental Sustainability: Santa Rosa protects and improves the environment through its policies and actions.

## EOP PROCESS

## Memorialize

Energy efficiency and renewable energy projects completed to date

### Evaluate

Current water systems and practices

# Identify

Cost-effective measures to:

- Enhance energy efficiency
- Reduce energy demand
- Increase renewable energy generation

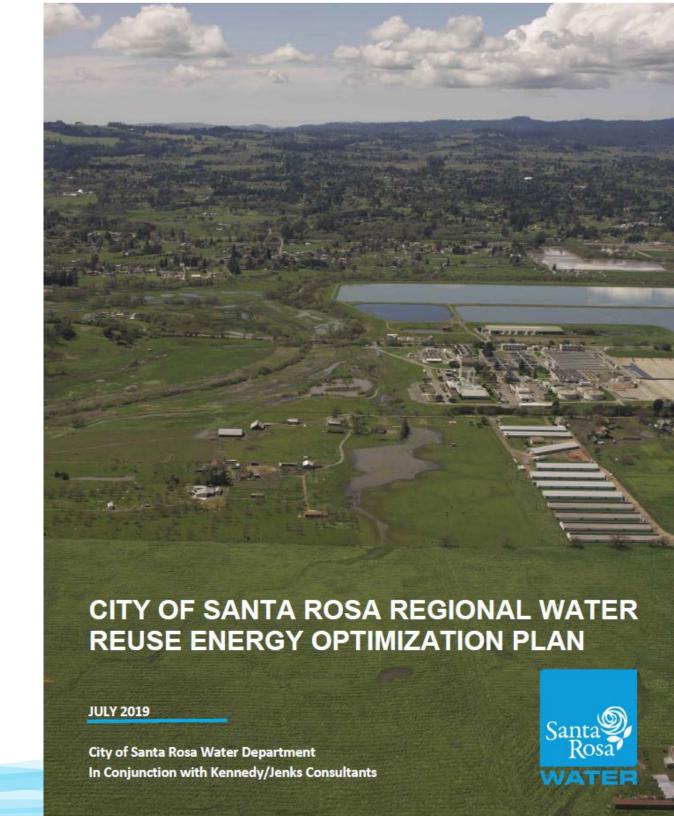
### REGIONAL WATER REUSE

#### 4 System Audits

- LTP
- Biosolids/Compost
- Reclamation
- Geysers

#### 5 Deeper Investigations

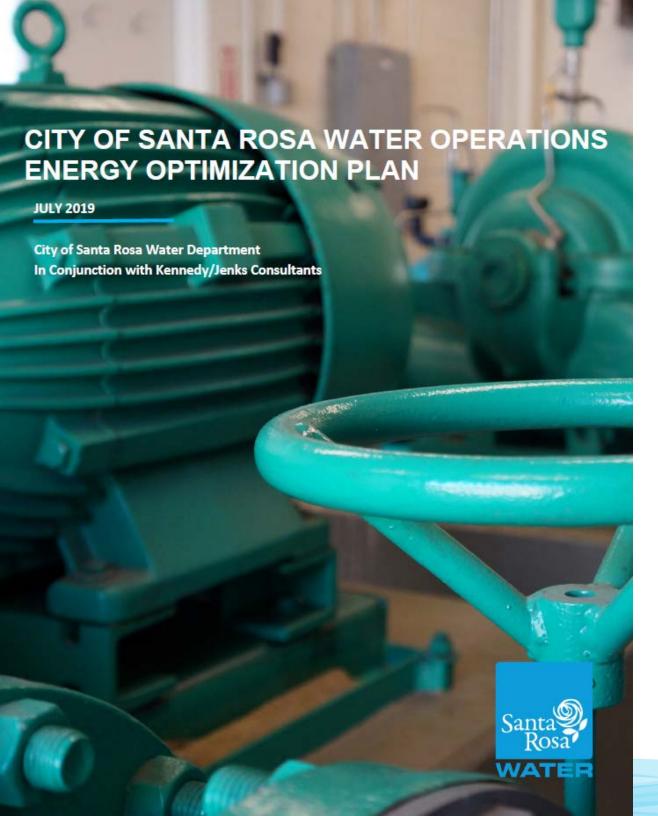
- Measures:
  - 6 Pursue
  - 9 Complete or in Planning
  - 25 Not Pursue at this Time
  - 21 Not Recommended



# Regional Water Reuse EOP

#### Measures to Pursue

EEM 4-1	Restore Pipeline Capacity in portion of Geysers
	Pipeline
EEM 6-4	Lystek Process
	Evaluate Additional Uses of Waste Heat
EEM 8-12	Upgrade Delta Pump #2
REM 9-4	1 MW Floating Solar Photovoltaic (PV) Installation,
	Power Purchase Agreement
REM 9-5	Pond Lease for 1 MW Floating Solar Installation



# WATER OPERATIONS

### System Audit

Water and Wastewater

### 7 Investigations

- Measures
  - 10: Pursue
  - 4: Complete or in Planning
  - 4: Not Pursue at this Time
  - 20: Not Recommended

# Water Operations EOP

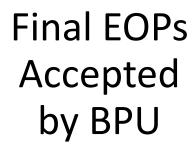
### Measures to Pursue

REM 7-1	Own and Operate 134 kW photovoltaic (PV) project on existing waste transfer station
REM 7-2	Own and Operate 320 kW PV project on new carport/truckport structure
REM 7-5	Power Purchase Agreement (PPA) for 320 kW PV project on new carport/truckport structure
REM 7-6	PPA for 1257 kW PV project on new carport/truckport structures
EEM 9-1	Adjust heating program at UFO
EEM 9-2	Adjust cooling program at UFO
EEM 9-3	Test air changes per hour in HVAC equipment
EEM 9-4	Use window blinds to reduce solar gain
EEM 9-5	Investigate natural light options in dark work spaces
EEM 9-7	Educate staff regarding energy reduction

# STEPS

BPU Study Session (8.1.19)

Continue Investigations



Incorporate
Measures into
CIP Process

## IMPACTS OF ACCEPTING EOPS



Fiscal: None

**Environmental:** Exempt from California Environmental Quality Act (CEQA) as it's not a project. Future projects



Quality Act (CEQA) as it's not a project. Future projects subject to CEQA review as appropriate.

### RECOMMENDATION

It is recommended by the Santa Rosa Water Department that the Board of Public Utilities, by motion, accept the final Energy Optimization Plans for Regional Water Reuse and Water Operations.



# QUESTIONS?