What is CFPUA?

- Water and Wastewater Utility.
- Employs 280 people.
- Provides service to 67,000+ customer accounts. (Nearly 200,000 people.)
- Acquire, finance, construct, manage, maintain & operate systems
- Authority = Self-supporting agency.
  ALL funds from users, impact fees.
CFPUA Facilities, Staff

CFPUA owns, operates and maintains systems that include:

- 2 Water Treatment Plants
- 2 Wastewater Treatment Plants
- MILES of water, sewer lines
- More than 7,700 fire hydrants
- Nearly 150 pump stations
- 11 water tanks – 10 elevated, 1 ground
- 4 buildings that house:
  - Environmental and Laboratory Services
  - Collection System Maintenance
  - Distribution and Construction Services
  - Administrative Services
Why Do We Do It?  Our Mission.

Provide high-quality service in an environmentally responsible manner while maintaining the lowest practicable cost.

Our Environmental Policy

Communicate policy and provide educational outreach to all.

Follow all legal requirements.

Prevention of Pollution by minimize waste and impacts on the natural resources.

Understand the needs of our stakeholders.

Achieve improvements.
How to Get Started:

- Determine if assessing energy use is important
- Contact Waste Reduction Partners
- Determine facilities to assess
- Gather the data (pre-assessment survey)
  - Utility History – look at your bills
    - Electric
    - Gas
    - Oil
    - Propane
    - Water / Sewer
  - Building plans and as bulits
  - Process Information – what is the facility used for
- Schedule energy audit
Assessment Day

Who should attend
- WRP
- Subject Matter Experts
- Environmental/Energy Team
Assessment Day
What’s Next?

- Energy Team
  - Who are the right people?
  - Management approval/buy in
- Review Audit Report
- Determine Priorities
- Develop Energy Policy
- Set goals and track process

<table>
<thead>
<tr>
<th>Estimation of Annual Emission Reduction Savings</th>
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<tbody>
<tr>
<td>Carbon Equivalent, (CO₂e) - Greenhouse Gases, Pounds/Year</td>
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<tr>
<td>Nitrogen Oxides, (NOₓ) - Precursor to Ozone, Pounds/year</td>
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<tr>
<td>Sulfur Oxides, (SO₂) - Contributes to Acid Rain, Pounds/yr</td>
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Impact of Annual Usage on Simple Payback

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<tr>
<th>Summary of Recommendation Measures</th>
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<tr>
<td>Implement a program to minimize energy use for pumping.</td>
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<tr>
<td>Convert outside lights at Pump Station 69 to LED (Based on 4 fixtures).</td>
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<tr>
<td>Upgrade pump station exhaust fans to minimize energy use, using variable speed drives and appropriate motors.</td>
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<tr>
<td>Implement an LED Lighting Upgrade at the Energy Services Facility (Including Victor Bay Station).</td>
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<tr>
<td>At CSP Warehouse Mazarine, eliminate the use of unconditioned air into unconditioned space.</td>
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<tr>
<td>Consider upgrading wastewater meters at CSP, Victor Bay and the Nisqually to minimize natural gas use.</td>
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<tr>
<td>Implement an LED Lighting Upgrade at the DSSM Facility.</td>
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<tr>
<td>Modify RMVD laboratory head practices for our only, when required by standards.</td>
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<tr>
<td>Implement an LED Lighting Upgrade at the Nisqually Water Purification Plant.</td>
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<tr>
<td>Reduced hours plant run on-peak to 2 hours/day.</td>
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<tr>
<td>Reduce peak kW demand at all plant by plant by 5% KWhr.</td>
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<td>TOTAL</td>
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QUESTIONS?

CONTACT INFORMATION

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