

Save Energy, Water and Money with State Revolving Fund Loans

Plan for energy efficiency now to help Hawaii become a leader in sustainability!

The Challenge:

With rising energy costs and stringent water quality standards, how can facilities reduce cost?

The Solution:

Use a low-interest SRF loan for an energy efficiency program at your water or wastewater facility.

- 15-30% energy savings
- Qualify for valuable energy rebates
- Save money for ratepayers
- Produce more stable effluent with lower risk of violations
- Extend equipment life
- Reduce capital expenses
- Reduce odor liability
- Reduce solids accumulation
- Decrease air pollutant emissions

Wailuku-Kahului Wastewater Reclamation Facility Expansion



Energy Efficiency & Savings:

This SRF-funded project received a \$100,000 rebate from Maui Electric for installing energy efficient blowers.

Energy efficiency measures eligible for inclusion in an SRF project:

- Energy audits and feasibility studies
- Energy-efficient pumps
- Variable-frequency drives
- Leak detection equipment
- Capital costs of onsite cogeneration and clean energy or offsite clean energy facilities powering publicly-owned treatment works
- Water conservation and re-use projects and programs
- Environmental management system

Kihei & Lahaina Wastewater Facilities

Energy Efficiency Measures:

Water conservation and re-use



Savings: ~400 million gallons per year of potable water. Maui County uses 22% of its treated wastewater for landscaping, agriculture, cooling and construction uses.

Features of SRF Loans

- Below-market interest rate
- Loans up to 100% of project costs
- Repayment period up to 20 years

Eligible Water & Wastewater Projects:

- Projects to ensure safe drinking water
- Projects to expand & improve water pollution control infrastructure
- Nonpoint source projects
- Energy efficient projects

Solar Panel Installation at Lake Hennessy Wastewater Facility in Napa, CA



Energy Efficiency Measures:

- Reduce demand from utility grid
- Lower operating costs
- Improve air quality

Savings: Average savings exceeding \$100,000 annually with an estimated total savings of \$3.2 million (gross) over the next 25 years.

How Do I Get Started?

Track, assess and benchmark your facility's energy use: www.energystar.gov

Check out electric company rebates for energy-efficient projects:

Energy\$olutions for Business (HECO, MECO and HELCO): www.heco.com,
www.mauielectric.com

Energy Wise Commercial Energy Efficiency Program (KIUC): www.kiuc.coop

For more information:

Contact Hawaii's State Revolving Fund Programs to apply for an SRF loan:

Safe Drinking Water: (808) 586-4258

Wastewater: (808) 586-4294

The wastewater treatment plant in the Dublin-San Ramon Services District in California (capacity: 17 MGD), implemented these energy efficiency measures:

- Increased blower capacity
- Premium efficiency motors
- Relocation of recycled water process reduced effluent pumping distance by 16 miles

Resulting in these savings:

- Saves 1,253,375 kWh/year
- Saves \$290,000/year in energy costs
- Received \$67,000 in rebates

Did you know?

Hawaii County installed dedicated leak detection systems to target pipe replacements and hired an Energy Management Analyst in the Department of Water Supply.

Learn more about reducing energy use:

Energy Star Program: www.energystar.gov

EPA Sustainable Infrastructure Program:
www.epa.gov/waterinfrastructure/

Department of Energy Best Practices Program:
www1.eere.energy.gov

Ensuring a Sustainable Future: An Energy Management Guidebook for Wastewater & Water Utilities: www.epa.gov/waterinfrastructure/pdfs/guidebook_si_energymangement.pdf

Check Up Program for Small Systems (CUPSS):
www.epa.gov/cupss/

BOMA/U.S.EPA Energy Star Energy® Efficiency Program BEEP®
www.boma.org/trainingandeducation/BEEP/curriculum.htm

Hawaii Water Environment Association:
www.hwea.org

Water Effective Utility Management:
www.watereum.org

Energy and Water Efficiency in Water & Wastewater Facilities

Using the Hawaii State Revolving Fund (SRF)



Hawaii SRF Programs

Safe Drinking Water: (808) 586-4258
www.hawaii.gov/health/environmental/water/sdwb/dwsrf/dwsrf.html

Wastewater: (808) 586-4294
www.hawaii.gov/health/environmental/water/wastewater/cwsrf.html

