

**California
Infrastructure and Economic
Development Bank**

**7th Annual
Statewide Energy Efficiency Forum**

**Innovative Financing for Energy Efficiency:
A Comparative Study**



**Nancee Trombley, Chief Deputy Executive Director
June 15th, 2016**

Financing New Vision for Sustainable Communities

IBank Programs



Infrastructure State Revolving Fund (ISRF)



California Lending for Energy and Environmental Needs Center (CLEEN Center)



Tax and Tax-Exempt Conduit Bonds and Industrial Development Bonds (Bonds)



Small Business Finance Center (SBFC) Credit Enhancement Programs



**Infrastructure State
Revolving Fund**

ISRF Direct Loan Program

funding ranging

\$50,000 to \$25 million

(or more with Board approval)

Terms for the useful-life of the project
up to 30-years

Up to 100% of the project costs

MUSH Borrowers



M
Municipalities



U
Universities



S
Schools



H
Hospitals



Eligible Municipalities

Cities

Counties

Special Districts

Assessment Districts

**Other State and Local
Governmental Entities**

**Nonprofit public benefit
organizations (with a sponsor)**



Infrastructure State Revolving Fund

Eligible ISRF Projects



Water, Sewage,
Flood Control

Streets, Highways
and Public Transit



Power and
Communication

Schools, Ports,
Parks, Cultural





Credit Underwriting and Selection Criteria

- **Financial Condition (CAFR)**
- **Sources of Repayment:**
 - Enterprise Revenues
 - Rate payer fees; water, sewer, other
 - General Fund revenues
 - Property assessments
 - Other recurring revenues acceptable to IBank



Pico Water District Infrastructure Replacement

\$5.25 Million

- Relieve water pressure inadequacies in Pico Rivera, L.A. County
- Replace more than 31 thousand-feet of pipe
- Install 5 new fire hydrants
- Create 25 construction jobs, improve safety with increased fire flow protection and save energy needed to move the water
- Provide improved water service to more than five-thousand households and businesses

City of Redlands Street Upgrades

Pavement Accelerated Repair Implementation Strategy

\$3.5 Million

- Upgrades 2/3 of all Redland streets
- Rehabilitate the equivalent of 40 miles of public streets in major economic areas
- Enhancing curb appeal for existing businesses attracting new businesses
- Greater ease of access for customers
- Making Redlands a destination-- bringing an influx of investment to the City



City of Pittsburgh Water Treatment Plant

- \$11.4 million
- Construct and renovate modifications to existing plant
- **Resulting in improved water quality and production and reliability**
- Will help City meet fire flow requirements





California Lending for Energy and Environmental Needs Center



CLEEN Center Goals

- ✓ Assist in achieving California's Greenhouse Gas Reduction Goals
- ✓ Drive down the cost of clean energy, water conservation and environmental projects
- ✓ Enhance market confidence in green investing



California Lending for Energy and Environmental Needs Center

CLEEN CENTER



Generation

- Solar, Wind, Biomass, Hydroelectric



Conservation

- EE Retrofits, LED lights, Building automation and controls



Other

- Energy storage, transmission, and distribution; EV charging stations



California Lending for
Energy and Environmental
Needs Center

Statewide Energy Efficiency Program

SWEEP



Comprehensive energy efficiency improvements to new and existing facilities, for example:

- Light Emitting Diode (LED) Street Lighting
- Advance metering systems
- Data Center, information technology, communications
- Energy management and/or control systems
- Heating, ventilation and air conditioning system
- Thermal and electric energy storage



California Lending for Energy and Environmental Needs Center

Direct Financing



Funding available in
amounts ranging from
\$500,000 to \$30 million

(or more with Board
approval)

**Can finance 100% of
project costs**

Terms for the useful-life
of the project



California Lending for Energy and Environmental Needs Center

Low cost direct financing

Interest Rate Methodology

- Benchmarked to Thompson Reuters MMD Index
- General Subsidy (25%), plus additional subsidy for SWEEP and CLEEN project's contributing to GHG Reduction Goals

CLEEN Center financing generally offers total costs below a public offering



City of Huntington Beach Street Light Acquisition and Light Emitting Diode (LED) Retrofit Project

- Nearly \$7.7 million direct financing
- Acquisition of 11,181 high pressure sodium street lights
- Retrofit with new LED Technology consumes 50% less energy
- Decreases energy consumption and reduces greenhouse gases
- Saves the City money, creates jobs and supports local small businesses





**California Lending for
Energy and Environmental
Needs Center**



**Infrastructure State
Revolving Fund
Program**

Application Process

1. Call us so we can give you personal attention and discuss your plans
2. IBank staff will analyze your project for eligibility and feasibility (several weeks)
3. In about 3-4 months, goes to the Board for Approval

Applications are taken *continuously*

CONTACT US

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