

**CALIFORNIA INFRASTRUCTURE AND
ECONOMIC DEVELOPMENT BANK**

**ACEEE 2015
ENERGY EFFICIENT
FINANCE FORUM**

**OPTIMIZING GREEN BANK
POTENTIAL**



June 2, 2015
San Francisco, California

ABOUT IBANK

IBank was created in 1994 to finance public infrastructure and private development that creates jobs, a strong economy and a clean environment to improve the quality of life for the people of California.

Infrastructure and Economic Development



BACKGROUND



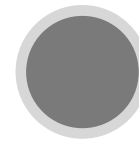
1994

IBank was established to finance public infrastructure and private development that promote economic growth



2006

California Global Warming Solutions Act (AB32) was established to reduce the State's greenhouse gas emissions to 1990 levels by 2020 and to 80% below 1990 levels by 2050 (Greenhouse Gas Goals)



2014

IBank established the Clean Energy Finance Center and created the Statewide Energy Efficiency Program (SWEET)



CLEEN CENTER

In 2015

IBank renamed the Center

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

To help meet the State's Goals for:

- Greenhouse gas emissions reduction
- Water conservation
- Strategic environmental goals

CLEEN CENTER CLEAN ENERGY PROJECTS



Generation

- Solar, Wind, Biomass, Hydroelectric



Conservation

- EE Retrofits, LED lights, Building automation and controls



Other

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

CLEEN CENTER'S ENERGY EFFICIENCY FOCUS

- Assist in achieving California's Greenhouse Gas Reduction Goals
- Drive down the cost of energy efficiency projects
- Enhance market confidence in clean energy investing



PRIMARY CLEEN CENTER FOCUS: THE MUSH MARKET



M
Municipalities



U
Universities



S
Schools



H
Hospitals



ELIGIBLE “MUNICIPALITIES”

Cities

Counties

Special Districts

Assessment Districts

Joint Powers Authorities

Other State and Local

Governmental Entities

CLEEN CENTER FINANCING

VARIETY OF FINANCING MECHANISMS

- Direct Loans
- Tax Exempt Bonds
- Green Bonds



GREEN BONDS PRINCIPLES OF 2015

Green Revenue Bonds

- The cash flow from the clean energy project loans made from the proceeds of the revenue bonds would be pledged to the bondholders to repay the bonds.

Green Project Bonds

- Project bonds may be the best financing vehicle available to fund an extremely large clean energy project or series of projects in a region.

Green Securitized Bonds

- Green project bonds are collateralized by a pool of specific clean energy projects

INVESTOR CONFIDENCE PROJECT

SOURCE OF TECHNICAL ASSISTANCE

CHANGING THE WAY WE
THINK ABOUT CLEAN
ENERGY FINANCE
PROJECTS

- Developing business models that drive down market costs
- Provide standards of uniformity for energy efficiency
- Helping create a credit positive green bond market



CLEEN CENTER PROGRAMS

**SWEEP STATEWIDE
ENERGY EFFICIENCY
PROGRAM (SWEEP)**



**LED STREET LIGHTING
PROJECTS**

**MODEL: CITY OF ASHEVILLE
STREET LIGHT PROJECT**



Looking for big projects like:
Project Dome in Copenhagen using energy
from the sun, wind, water, and biomass

SAN FRANCISCO STREET LIGHTS

LED STREET LIGHT CONVERSION PROJECT

- The conversion of all 18,500 streetlights
- LED lights consume 50% less energy
- Remote monitoring
- Save the City money, create jobs and support local small businesses

Cost : \$16 million



CLEEN PROJECTS

- Advanced metering systems for conversion of master-metered buildings to sub-metering
- Data center, information technology, communications
- Energy management and/or control systems
- Demand response programs
- Water/wastewater, pipeline, mining/extraction, and similar end-use processes, facilities, buildings, and infrastructure
- Lighting and control systems
- Converting incandescent to CFL
- LED repairs, replacements and upgrades
- Heating, ventilation and air conditioning systems (HVAC)
- Building envelope
- Occupant plug load management systems
- Load reduction
- Thermal and electric energy storage

LOW COST DIRECT LOAN FINANCING

Rate Methodology

- Benchmarked to Thompsons Municipal Data Index
- Generally below market rate

The result offers a rate better than that of a public offering



APPLICATIONS TAKEN CONTINUOUSLY

Call us!

We want to give you personal attention and hear about your project.



- Call us and discuss CLEEN Projects
- IBank representative works with you throughout the process
- Applicant determines and certifies projects consistent with The State Environmental Goals and Policy Report
- Applicant resolution to certify project meets criteria and goals of the State
- Final approval by IBank Board of Directors

APPLICATIONS TAKEN CONTINUOUSLY

http://www.ibank.ca.gov/clean_energy.htm

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