

**DOCKET**

**10-IEP-1H**

DATE JUL 08 2010

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## **Town of Moraga's Experience with EECBG**

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## **Town Background**

- **16,400 Residents**
- **7 Town buildings**
- **38 Employees**
- **\$6.4 M operating budget**

## Project Selection

- **Buildings with highest energy usage**
  - Library
  - Town offices and Police Department
  - Parks and Recreation Office
- **Big Hitters**
  - HVAC Upgrades
  - Exterior Lighting Technology Upgrades
  - Building Insulation

## Project Costs & Funding

• HVAC Upgrades	\$ 111,000
• Lighting Upgrades	\$ 62,300
• Building Insulation	\$ 13,000
• Photovoltaic	<u>\$ 205,000</u>
Total	\$ 391,300
• EECBG Small City Grant	\$ 93,400
• CEC 3% Energy Loan	\$ 198,935
• Utility Rebates	\$ 75,900
• Town Capital Improvement	<u>\$ 23,065</u>
Total	\$ 391,300

## Projected Benefits

- **Savings of 2,000 MM BTUs**
- **Reduction in energy costs of \$ 21,000/yr.**
  - 17% reduction in electricity
  - 29% reduction in natural gas
- **Reduction in GHG of 88 MTCO<sub>2</sub>**
- **Improved building comfort**
- **Added 130 days of work**

## Challenges

- **Requirements of Grant Application**
  - Changing requirements
  - Level of detail (labor)
- **Determining Projected savings**
- **Contracting**
  - Small Contracts & Federal Rqmts
  - Competitive Rqmts (streetlights)
  - Exclude smaller contractors?

## Observations

- **Grant offers major opportunity to save energy**
- **Energy Commission staff very helpful**
- **Smaller agencies burdened by process**
- **Process seems oriented to large contractors**
- **Significant (unrecoverable) cost of changes**
  - **Minimize changes in scope & level of detail**
  - **Differentiate between nice to have and req'd**
- **Reporting requirements may exceed value**