



Town of Moraga's Experience with EECBG

John Sherbert

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925-888-7027

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 MTCO₂**
- **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**