



Identifying and Completing Municipal Retrofits for AMBAG Jurisdictions

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How the Municipal Program Started

- 2006-2008 Municipal Goal 4,661,856 kWh (17% of total EW Program goal)
- With Great Advice! - Marin County
- Combined Free Municipal Direct Installation Program with Municipal Retrofit Program



Meeting, Listening & Responding

- Energy Advisory Committee



Working Together

- PG&E Regional Sales & Service



The Role of the AMBAG Board of Directors

- 18 elected City Council members
- 6 elected County Supervisors
- Meet monthly, 100% endorsement of EW Program, active participation in operations
- Major promoters of EW program



Source of Projects

- Ongoing relationships now elicit assistance requests directly from municipalities
- Energy Assessment Reports, consulting work, CEC Technical Assistance and other audits facilitated
- Future: Benchmarking



Education & Training

- PG&E classes brought to region
- Building Operator Certification sponsored for all jurisdictions' building staff
- Energy Advisory Committee brings information to local jurisdictions
- All serve as platform for sharing best practices and building networks



Project Types

- Lighting
 - Interior, building exterior, garages, pool lights
- HVAC
 - Boiler/chiller/air handler replacements
 - Fan controllers/VFDs/VSDs
 - High efficiency pumps/motors



Current Projects

- Largely ARRA grant & loan funded
- Recruited jurisdictions to undertake projects alongside GHG inventories and Climate Action Planning for holistic approach
- 38 projects across 17 jurisdictions
- Primarily street/exterior lighting (induction & LED)



LGP Role

- Promote and facilitate project identification
- Assist jurisdiction in identifying and overcoming barriers
- Manage projects within PG&E application process and provide staff support to jurisdictions
- Report to PG&E on regional needs



Overcoming Barriers

- Finding the \$\$
 - CEC loans
 - Stimulus funds
 - Qualified Clean Energy Bonds
 - Off-bill Financing
- Technical Support
 - CEC, CalEPA
 - Relationships with contractors
 - PG&E reps & engineers



Overcoming Barriers

- Setting realistic expectations
 - RFP process, contracting, purchasing, etc. can be very time consuming
 - Jurisdictions typically understaffed, overloaded
 - Projects can take 12+ months from start to completion



Questions?