

ASSOCIATION OF BAY AREA GOVERNMENTS



Implementing Energy Efficiency Projects and Developing
Climate Action Plans

A joint program of



Pacific Gas and
Electric Company

and



Association of Bay Area Governments

California consumers are not obligated to purchase any full fee service or other service not funded by this program. This program is funded by California utility ratepayers under the auspices of the California Public Utilities Commission (CPUC).

July 11, 2007

Introduction



- ABAG Energy Watch program serves Bay Area local governments (cities, counties, and special districts).*
- Expansion of highly successful 2004/5 program serving 37 local governments.
- 51 current enrollees
- Program includes:
 - Technical Services to help local governments identify and implement energy and demand saving projects in local government facilities and
 - Energy Efficiency Policy assistance and development

*City and County of San Francisco has its own partnership program with PG&E

Current Enrollees (51)

(7/02/07)



www.abag.ca.gov/abagenergywatch

Cities & Towns

- Antioch
- Atherton
- Belmont
- Benicia
- Berkeley
- Brentwood
- Burlingame
- Calistoga
- Cloverdale
- Cotati
- Dixon
- Emeryville
- Fremont
- Gilroy
- Hillsborough
- Livermore
- Millbrae
- Milpitas
- Moraga
- Morgan Hill
- Mountain View
- Oakland
- Petaluma
- Pleasanton
- Redwood City
- Rohnert Park
- San Carlos
- San Jose
- San Mateo
- Santa Rosa
- Saratoga
- Sebastopol
- Sonoma
- St. Helena
- Sunnyvale
- Vacaville
- Windsor

Special Districts

- ABAG
- AC Transit
- Belmont-San Carlos Fire Department
- Highlands Recreation District
- Golden Gate Bridge Highway & Transportation Authority
- Housing Authority of the County of Alameda
- Regional Administration Facility Corporation
- Sonoma County Water Agency

Counties

- Alameda County
- Contra Costa County
- Napa County
- San Mateo County
- Santa Clara County
- Sonoma County

Overview



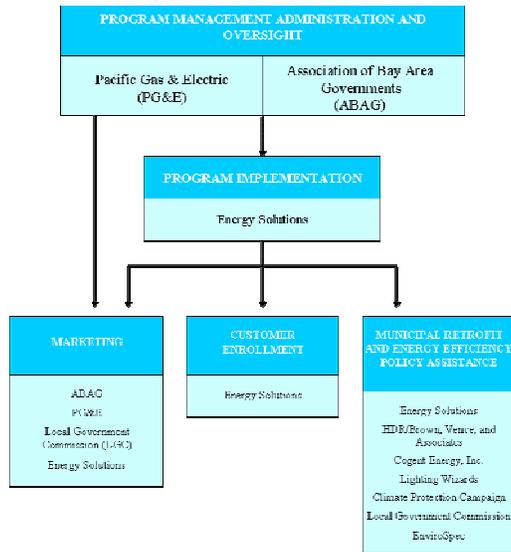
Program Purpose

- Help local governments achieve energy and cost savings in **public facilities** by reducing energy use and demand from the grid.
- Help local governments create agency-wide and community-wide energy savings through **energy efficiency policies and programs**.

Key Goals

- Energy Use Reduction
 - Net ~20 million kWh (equivalent to ~\$2.5 - \$3.0 million in savings)
 - Net ~4.6 MW
 - Net ~275,000 therms
- Develop 6 Energy Efficiency Policy packages
- Conduct 6 ABAG Energy Watch Workshops

Program Organizational Structure



ABAG Energy Watch Team



Team Members experienced in all aspects of energy efficiency

- **Pacific Gas and Electric Company:** program administrator, customer contact assistance, financial incentives, coordination with PG&E and competitively bid (“third party”) programs
- **Association of Bay Area Governments:** program lead, program oversight, and outreach
- **Energy Solutions:** program management, marketing, recruitment, energy assessments/benchmarking, technical assistance, community energy policy, and workshop coordination
- **Climate Protection Campaign:** service coordinator and Climate Action Plan development in Sonoma County
- **HDR / Brown, Vance & Associates:** energy engineering services and policy assistance
- **Cogent Energy:** energy engineering and retro-commissioning services
- **Green Purchasing Institute:** energy efficient equipment procurement and specifications development
- **Lighting Wizards:** lighting design and specification
- **Local Government Commission:** outreach and energy efficiency policy

ABAG Energy Watch

Technical Services



General Technical Assistance

- Understand energy use and prioritize savings opportunities in public facilities (Energy Assessment Reports)
- Provide energy use benchmarks for municipal facilities
- Provide or coordinate preliminary energy audits
- Computer power management and efficient network server incentives

ABAG Energy Watch

Technical Services (cont'd)



Municipal Retrofits

- Recommend equipment retrofits for existing buildings
- Provide or coordinate investment grade audits
- Provide design assistance for new construction projects
- Provide assistance with identifying and obtaining project funding (e.g., CEC low-interest loans)
- Develop equipment specifications for bid
- Assist with project implementation
- Provide equipment incentives and rebates

ABAG Energy Watch Technical Services (cont'd)



Retro-Commissioning (RCx)

- Check/adjust **existing** equipment to ensure that building systems are operating per design intent
- Identify RCx needs based on unexpectedly high energy use or comfort issues
- Test, recalibrate, repair, or optimize controls functions

Direct Installation

- Provide lighting audits for facilities serving senior citizens
- Coordinate contractors for equipment procurement and project installation
- Oversee installation and inspect results

Project Examples from ABAG Energy Watch Program



A sample of facility energy efficiency projects/services...

- AC Transit General Office and Five Maintenance Facility lighting projects (saving 2,475,000 kWh/yr or \$300,000/yr)
- San Mateo County Detention Center comprehensive energy audit (saving 1,053,000 kWh/yr and 14,800 therms/yr or \$140,000/yr)
- Sebastopol Library comprehensive energy audit (saving 72,000 kWh/yr and 5,000 therms/yr or \$14,000/yr)
- City of Morgan Hill Cultural Center retro-commissioning (saving 75,000 kWh/yr or \$9,000/yr)
- Supported City of Santa Rosa's climate reduction plans by identifying muni energy efficiency projects saving \$926,00/year and 3,280 tons CO₂e/year)

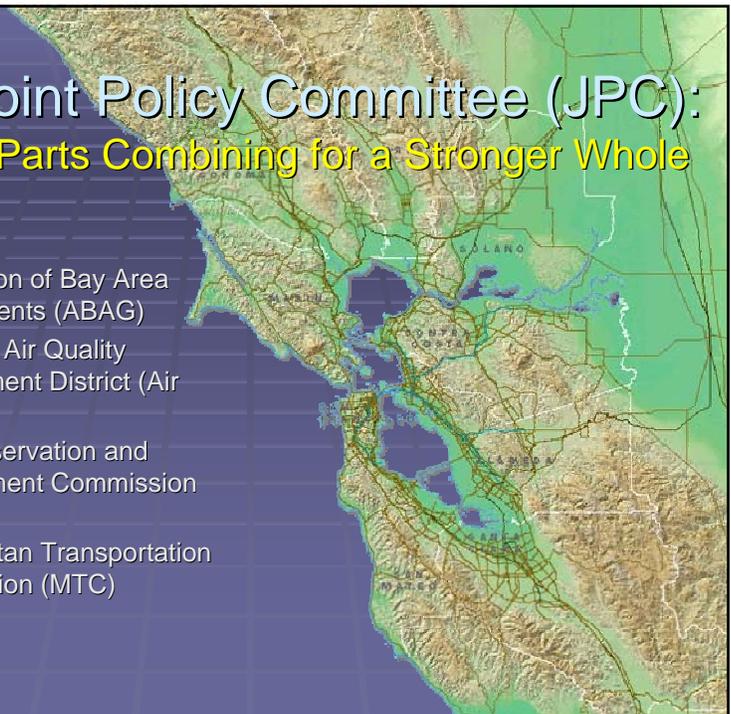
ABAG's role in a Bay Area Climate Change Strategy

- Existing Programs/Initiatives
 - ABAG Energy Watch
 - Earthquake and Hazards Program
 - Water Resources Planning
 - Green Business Program
 - San Francisco Estuary Project
 - Regional Planning/FOCUS
- Potential Programs/Initiatives



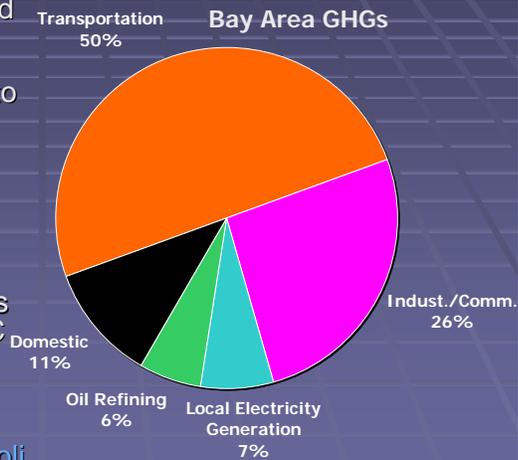
The Joint Policy Committee (JPC): Strong Parts Combining for a Stronger Whole

-  Association of Bay Area Governments (ABAG)
-  Bay Area Air Quality Management District (Air District)
-  Bay Conservation and Development Commission (BCDC)
-  Metropolitan Transportation Commission (MTC)



JPC Climate Program

- **Mandate:** To recommend actions that ABAG, BAAQMD, BCDC, and MTC can take together to incorporate climate protection in their plans and programs.
- **Progress:** Six-month scoping study complete. Action recommendations to be considered by JPC at its July 20th Meeting.
- **More Information:**
www.abag.ca.gov/jointpolicy/jpc_climate_change



For More Information



Program Contacts:

Gerald Lahr, ABAG, 510-464-7908

jerryl@abag.ca.gov

Bruce Chamberlain, ES, 510-482-4420 x227

bruce@energy-solution.com

www.abag.ca.gov/abagenergywatch/