

Utility Tracking, Demand Reduction, and Sustainability Dashboards

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Submitted by:

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Background Statistics / Goals / Progress

- Scope:\$9M annual budget covering ~63% of county facilities operations, including utility-supplied electricity & natural gas (PGE/DGS), water, sewer refuse and recycling.
- Bldgs: ~61 buildings=~ 2+M sq. ft. at 5 main locations + numerous outlying properties & communications towers and undeveloped property.
- Site not covered: Leased facilities 5 bldgs
- Co-Generation: 10mKW with 3 PV systems.
- 8 EV charging stations installed with 6 more coming this next yr

- Bike to Work Day Energizer stations (2)
- Working on PGE Incentive for Commercial HVAC Maintenance Program (new for 2013)

General Services Goals and Progress:

- ~ 2000-2001: Developed Comprehensive Energy Project which identified 55 EE measures
- ~2005: Cogen Expansion for Downtown Gov't Construction
- ~ 2008 - Energy Retro EE project for Health and Social Services Facility.
- ~2013 - Comprehensive Analysis of Cogen Plant Operations, Energy advances.



Software / Dashboard / Barriers

- Accounting and admin staff keep numerous Excel spreadsheets to analyze trends, project future use, allocate utility payments between various departments, and determine energy savings from specific projects
- Envision an online dashboard that displays:
 - Ongoing utility usage
 - Electricity generation
 - Corresponding GHG emissions equivalents
 - Progress toward utility use and GHG reduction goals

Issues Similar to Sonoma County:

- Currently very frustrated with internal utility tracking process and existing software tools
- Each software tool uses different naming conventions and codes
- GS tracks many (but not all) utility accounts so we only have partial picture of Countywide use
- Integration of utility tracking process across all aspects
- Linkage w/ GHG inventory, goals
- Public-facing tracking dashboard

