

# Alameda County

## Energy Program



SEEC Webinar

Developing Sustainable Energy Programs

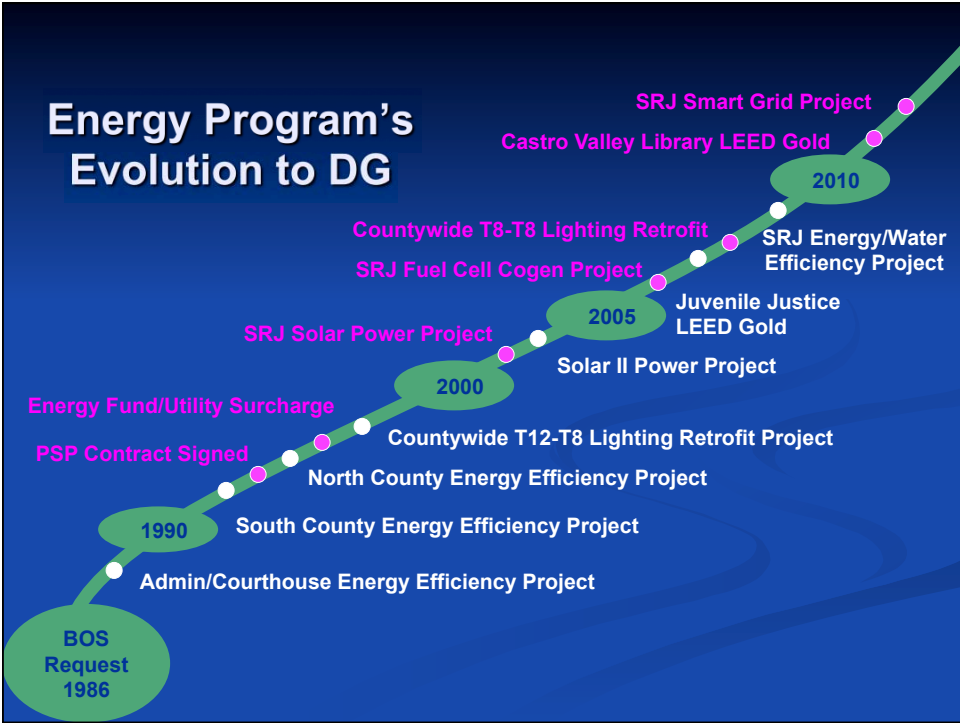
April 19, 2012

## The Energy Program Team




Established in 1987  
GSA/TSD

- ★ 1 Program Manager
- ★ 1 Project Manager
- ★ 2 Electrician/Construction Coordinators
- ★ Project and Cost Savings Oriented



## Energy Fund (1994)

- Capture and Reinvest Energy Incentives into Future Projects
- \$7M Funds Used To Date
- \$930K Current Balance
- \$ 3.6M Maximum Balance



1.2 mW Santa Rita Integrated Solar Power Project

## Utility Surcharge (1995)

- Fund Program Costs: Salaries, Benefits, Overhead
- Applies to All Utility Invoices for County owned and leased facilities managed, analyzed, and processed by Energy Program
- 8-11% on Electric, Natural Gas, Water/Sewage, Refuse, and Energy Loan Debt Service.



250 KW Solar Tracking Carport

## Alameda County Solar Power Systems Since 2002



**12 solar power installations  
3.7 MW Onsite Solar**



## Largest Rooftop Solar Power System on a Government Facility (2002)



\$450K Annual Energy Cost Savings, 10% of Energy Used from the Sun

## First MegaWatt Class Fuel Cell Cogeneration Plant (2006)



## First Net Zero Library in CA Castro Valley Library LEED Gold



**100% Electricity from Onsite Solar Power**

## Smart Grid at Santa Rita Jail First CERT Compatible Micro-Grid with Solar Power, Fuel Cells, Wind Turbines, & Advanced Energy Storage



## Alameda County

### Energy Program: 1987-2012

\$ Total Energy Capital Projects Value = \$50 M

\$ Total Energy Incentives and Refunds = \$28 M

\$ Current Annual Utility Budget = \$11.5 M

\$ Current Annual Energy Cost Avoidance = \$7.5 M

### Alameda County's Energy Program Lessons Learned

- ★ Utility Cost Tracking & Budgeting (EDI)
- ★ In-house Energy Project Development
- ★ Cutting Edge Technology Opportunities
- ★ Energy Grant and Rebate Opportunities
- ★ CEC Low Interest Loan Financing
- ★ Reinvestment of Incentives (Energy Fund)
- ★ Self-Sustaining Program (8-11% Surcharge)
- ★ Capital Project & Construction Oriented
- ★ Project Economic Feasibility Analysis (>10% IRR)

## Contact Information

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