

County of Santa Barbara General Services Department

Santa Barbara County Energy Action Plan:
Efficient Electricity Use in County Buildings

April 2, 2013



Staff Recommendation

- Accept the Energy Action Plan
- Accept the Benchmarking Policy
- As Board determines appropriate, provide staff direction regarding Energy Action Plan implementation



Background

Energy Action Plan addresses:

- State Directive: AB32 – 2006 Statewide effort to reduce CO² emissions
- County Directive: Resolution 09-059
- Southern California Edison Grant funded:
 - Benchmarking Policy
 - Energy Action Plan



Approach to Energy Action Plan

- Nearly half of the CO² emissions the County generates comes from buildings
- Sample selected County buildings to determine electrical consumption, cost effective upgrades
- Create plan (EAP) to replace aging electrical equipment, increase efficiency



Benchmarking Policy

- Measures energy usage for County facilities and compares them to similar buildings nationally
- Implements energy tracking software
- Identifies most cost effective upgrades
- Tracks outcomes of energy efficiency projects



Energy Action Plan

- Target reduction goal - 25% (grid power) by 2020
- Baseline Year 2008
- To date the County has achieved 15% through PV (solar panels) projects , lighting upgrades, other efficiency measures



Energy Action Plan

- Reaching target goal of 25% reduction
The remaining 10% will be achieved by implementation strategies outlined in the EAP
 - HVAC – controls, economizers
 - Lighting – outdoor, indoor, controls
- Estimated upgrade project cost - \$3.7 million from 2013-2020



Estimated Project Cost & Timeline

- Upgrades

- Lighting \$2.2 million

- HVAC \$1.5 million

- Total \$3.7 million

- Timeline

- 2013-2020



Potential Funding Strategies

- Subject to DAC / Board approval
 - State, Federal grants or low interest loans
 - On-Bill Financing
 - Public/private (or non-profit) partnerships
 - Self-funding or revolving funding programs
 - Private investors



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