



Sustainability & Conservation Team

A Strategic Team to reach the sustainability & conservation goals for County of Santa Barbara operations.

June 2009 Update

Vision is Unchanged: A complete plan that addresses...

- Reduced Greenhouse Gas Emissions
- Reduced Utility & Operating Costs
- Provide Community Leadership
- Cost-Effective Implementation



Sustainability for County Operations is... “Managing Resources Today for Tomorrow”

- Energy Efficiency & Renewable Power
- Vehicle Operations & Fuel Use
- Water Conservation
- Solid Waste & Recycling
- Grounds Management, Water Quality & Sequestration
- Landfill Management
- **New** Printing & Reprographics



Development Process of SAPCO with Minor Changes

Executive Support Committee

Advisory Committees*

Advisory/Working Committees Meet As Needed

BE

MW

VF

PWI

WE

RR

GM

P&R

GHG

Reporting to Board

SAPCO

Stakeholders Committee
(User Departments)

**Footnote: Individual Working Groups to draft their section of the SAPCO Document*



Advisory Committees are Formed

Advisory Committee Leaders

BE – Building Energy	Jerry McFerran
MW – Mobile Workforce	Jeri Muth
VF – Vehicle Fuels	Mitch Guenthart
PWI – Public Works Infrastructure	Mark Schleich
WE – Water Efficiency	Matt Naftaly
RR – Resource Recovery	Leslie Wells
GM – Grounds Mgmt & Sequestration	Erik Axelson
P&R – Printing & Reprographics	Jesus Castaneda
GHG – Greenhouse Gas Reporting	Robert Ooley



Timeline & Milestones are Established

- Advisory Group Coordination Meetings
 - monthly
- Board Update
 - September 15
- Report Deadlines
 - 1st of three drafts due on September 18
- Final Report
 - November 6
- Report Delivery to Board
 - December 8



Measure List is Being Established

- List of all Potential Sustainability Measures – *Examples to Follow*
- Ownership Assigned to the Correct Group
- Working Group Evaluates Applicability
- Working Group Documents Measures for Report:
 - Savings
 - Cost
 - Operational Impact



Sustainability Measures - a very short list

- Energy efficient retrofits with a reasonable ROI
- Facilities training program
- Recycling Program
- Pool cover
- Rainy day sprinkler lockout controls
- LED traffic control lights
- Fuel efficient vehicles
- Mobile workforce strategies
- Environmentally friendly inks



Greenhouse Gas Reporting Plan

- 2008 Baseline Year
 - Court facilities are excluded
 - Data is available & defensible
- Initially Report only Carbon-Dioxide Levels
 - Submit methane & NOX level in future years
- Join the Climate Action Registry



Information Clearinghouse

- Team Member Roster
- Meeting & Deadline Calendar
- Working Group Deliverables
- Report Outline
- Example Sustainability Reports
- Example Greenhouse Gas Reports
- Links to Sustainability Information



Meanwhile ...

- Discovery Phase is Underway within the Working Groups
- Energy Projects are Being Implemented in Parallel with SAPCO Plan Development ...



Energy Projects-- Courthouse - Fan & Pump Control

Installed

- Three systems - 22.5 HP
- Continuous Operation (8,760 hours)
- Required Operation (2,500 hours)
- Solution - Energy Management Controls
- Cost - \$7,500 → \$3,840 after utility incentive
- Annual Savings - \$15,000 & 30.8 mt CO₂
- Total Savings - \$195,000 & 400 mt CO₂
- **ROI - 3 months after utility incentive**



Energy Projects-- Courthouse - Fan & Pump VFD

- Two systems - 30 HP fan & 10 HP pump
- Existing Control: On/Off Cycling
- Preferred Control: Variable Frequency Drive
- Cost - \$12,650 → \$6,325 after utility incentive
- Annual Savings - \$3,600 & 7.7 mt CO₂
- Total Savings - \$54,000 & 116 mt CO₂
- **ROI – 1.8 yrs after utility incentive**

Installed



Energy Projects-- Energy Accounting Software

- Electronic Utility Billing – 300 Bills per Month
- Interface to FIN Accounting System
- Obtain Complete & Accurate Utility Use Data
- Analytical Usage Reports & GHG Reporting
- Cost - \$85,000
- Annual Savings – 60% FTE Labor
- **ROI – 1.3 yrs**

Installed



Energy Projects-- Facilities Training Program

- Energy-Efficiency Training Program
- 12 Classes per Year
- A Critical Component to the Energy-Efficiency System:
 - Ensure Persistent Savings
 - Identify & Report on New Opportunities
 - Adds to a Culture of Sustainability

In
Development



Thank You!

- Additional Details in Coming Months
- An Efficient Approach
- Flexible Framework
- Focus on:
 - Sustainability
 - Accountability
 - Cost Effectiveness

