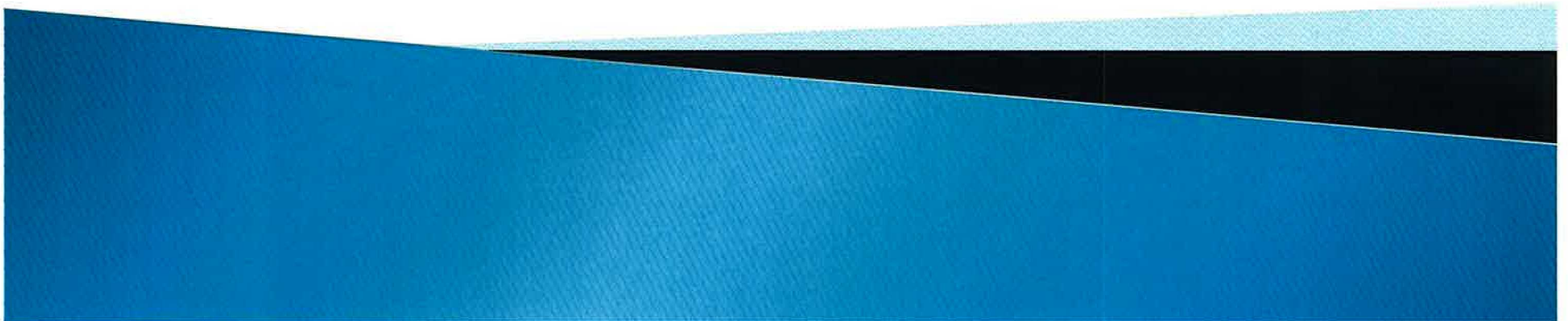


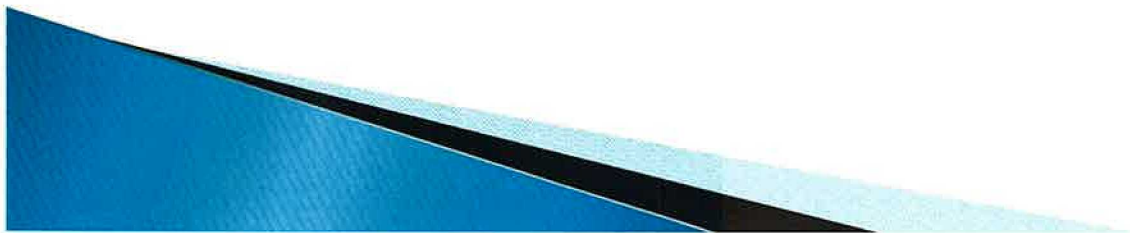
2011 Climate Protection Plan Report to Board of Supervisors

April 24, 2012



Today's Presentation

- ▶ Recap of accomplishments in 2011 (Jeff Burgh, County)
- ▶ Carbon footprint: 2005 through 2010 emissions (Ann Hewitt, Anacapa Consulting)
- ▶ A Look Ahead (Jeff Burgh, County)



2011 Accomplishments



The Climate Registry



2011 Accomplishments (2)

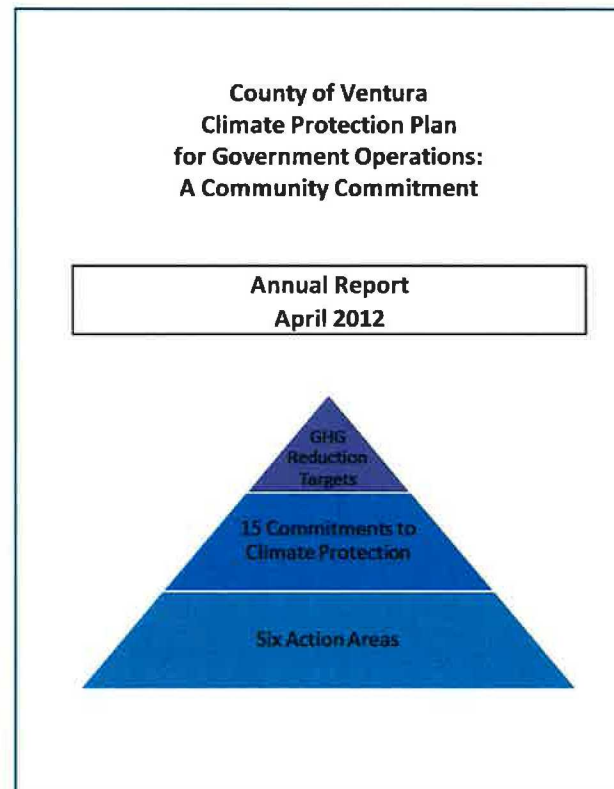


2011 Accomplishments (3)



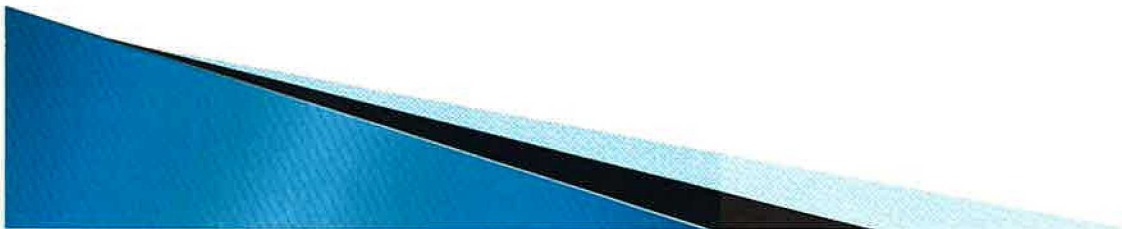
2011 Accomplishments (4)

- ▶ And more

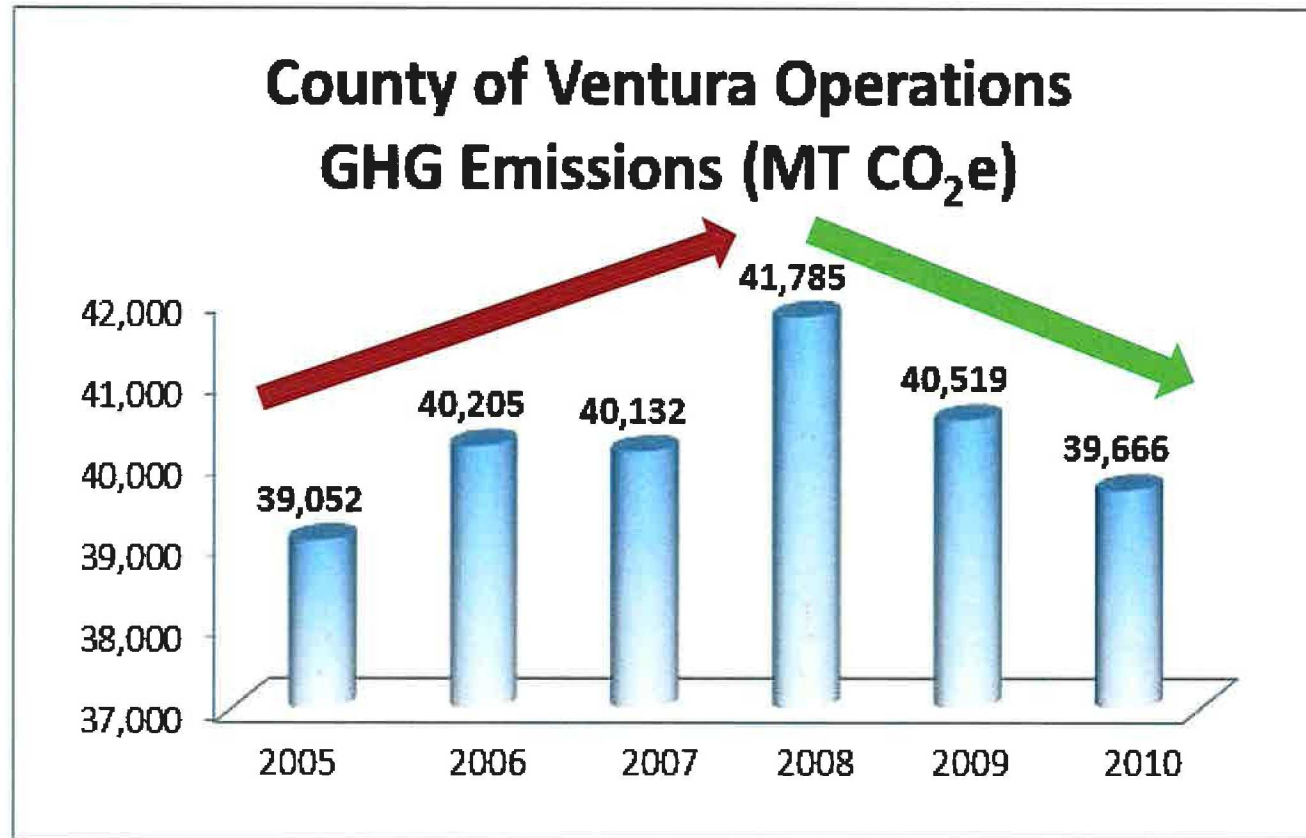


2010 Inventory

- ▶ Completed 2009 and 2010 calendar year inventories
- ▶ Changed emission factors (pounds of CO₂ per MWh) from Edison specific factors to statewide factors



Changes Over Time



2008: The Apex

- ▶ Replaced imported water with local water
 - accounts for 3/4 of the increased electricity use
- ▶ Increased vehicle emissions
- ▶ Health and safety facilities (Santa Paula Hospital, Fire Headquarters)
 - Context: Pre-recession economy



The State Water Project

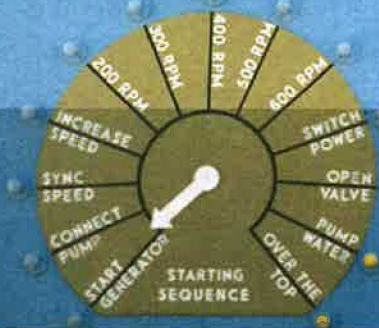


**Chrisman Wind Gap Facility on I-5
lifts water 800 feet**

California Water Project

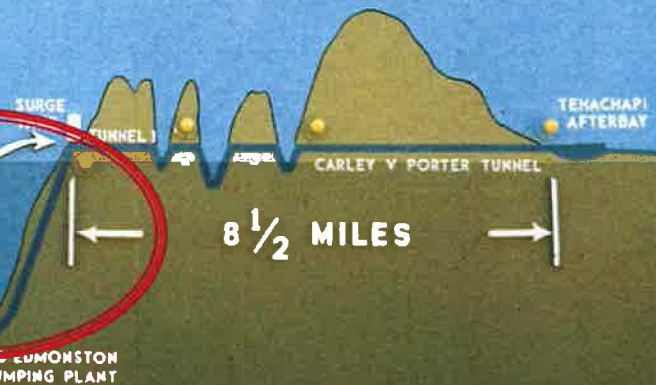
THE BIG LIFT
START OF THE FIRST UNIT
A DEDMONSTON PUMPING PLANT

TEHACHAPI CROSSING



DEPARTMENT
OF
WATER RESOURCES

LIFT 1926'



142,000 GAL. PER. MIN.

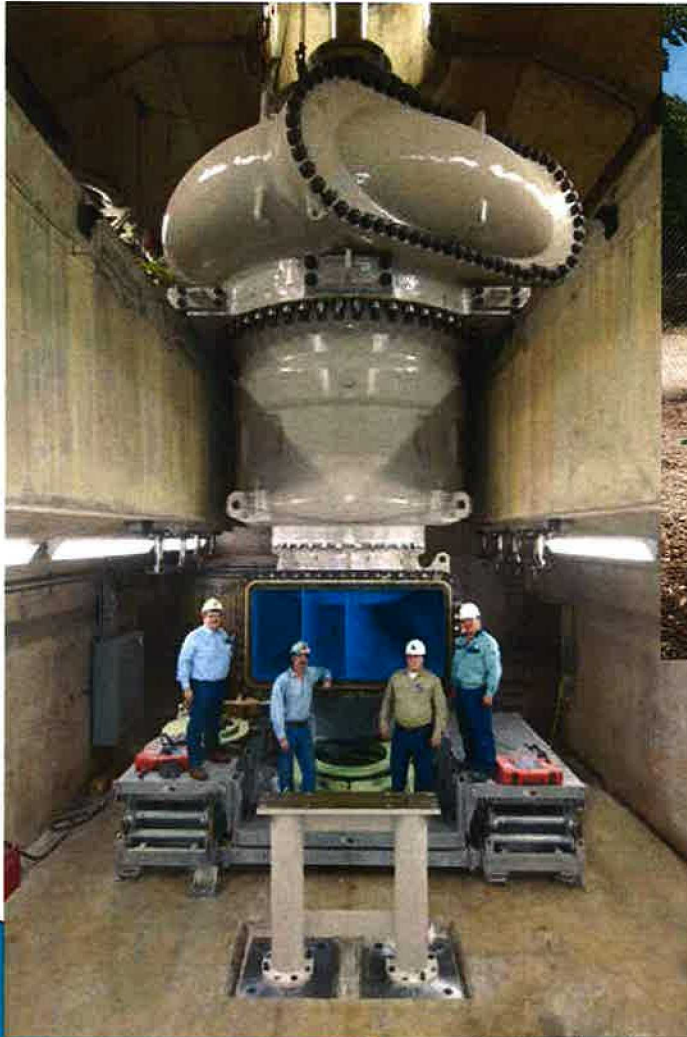
600 RPM

80,000 HP

LIFT 1926 FT.



The Water-Energy Nexus: Carbon Intensity



Kwh per Acre Foot of Water:

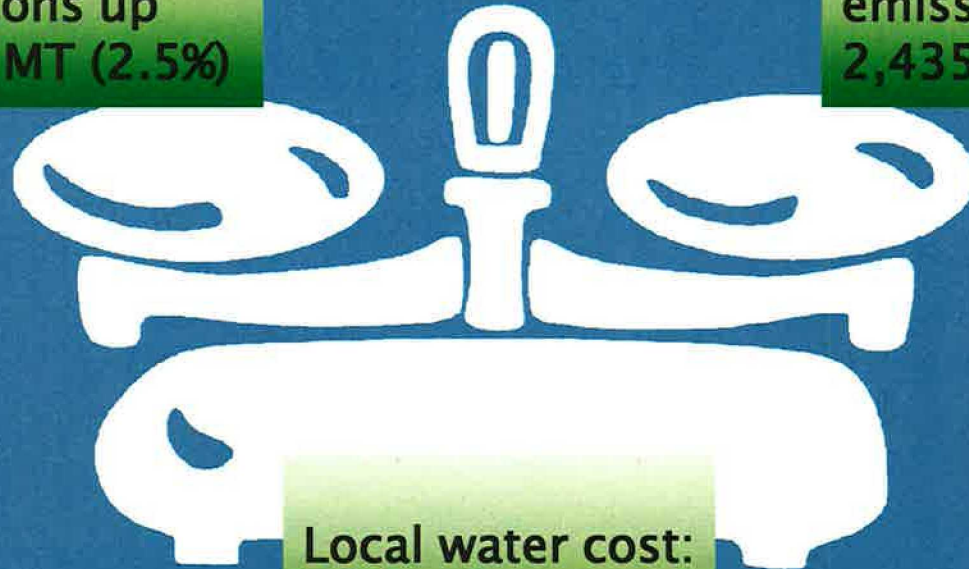
State Water Project:	2,578
Local water:	1,730

Water-Energy Balance

County
emissions up
1,614 MT (2.5%)

State
emissions down
2,435 MT

Local water cost:
27% of imported



Stabilizing Factor: Energy Efficiency

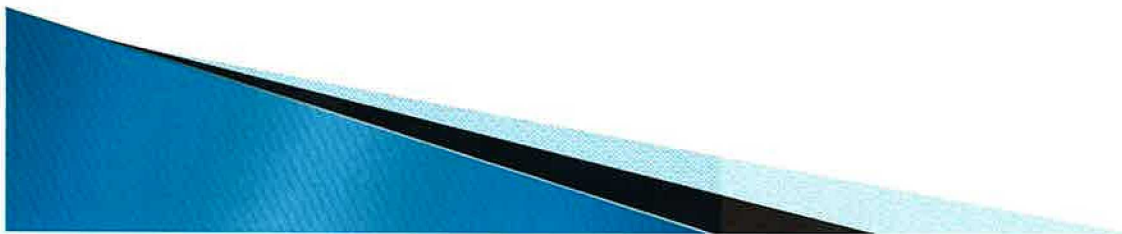
- ▶ Energy savings projects are gifts that keep on giving. Every year going forward, we know that:
 - the County carbon footprint will be 5.6% smaller than it would have been
 - Savings are at least \$800,000 per year



A Look Ahead



- ▶ Solar installation at Moorpark
- ▶ Todd Road jail solar installation and energy efficiency improvements
- ▶ Ongoing lighting and energy efficiency projects
- ▶ Challenges and Opportunities
 - Growth of government operations for public benefit
 - Criteria and guidelines for ROI
 - Maintaining pace of energy efficiency improvements and solar power
 - Controlling vehicle emissions through green mobility



Questions?

