

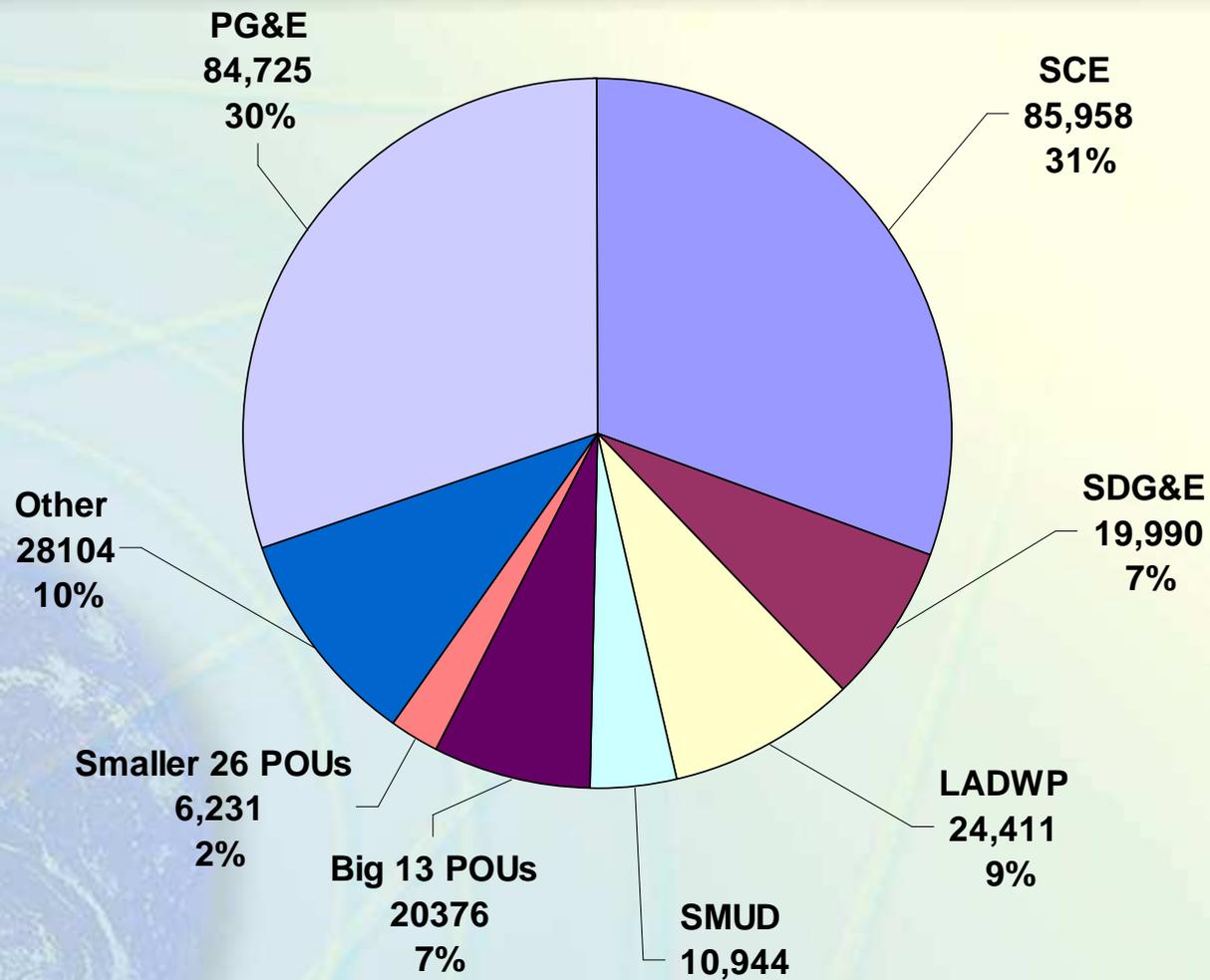
# Energy Efficiency in California's Publicly Owned Utilities



Kae C. Lewis  
California Energy Commission

# IOU – POU Electricity Consumption

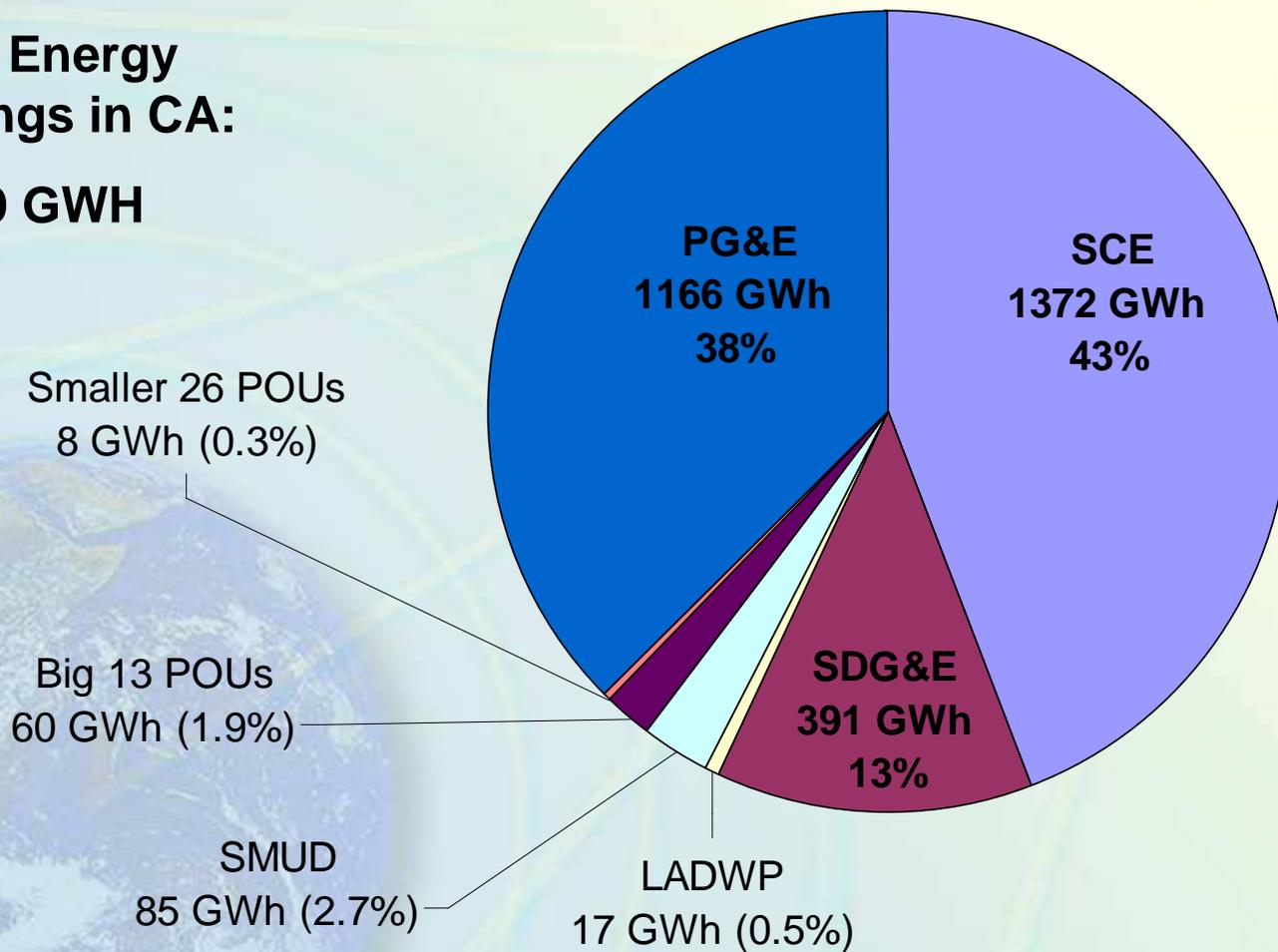
**2006  
Electricity  
Consumption  
in CA:  
280,739 GWH**



# IOU – POU Electricity Savings

**2005 Energy Savings in CA:**

**3,099 GWh**



# Utilities Contributing 93% of POU Efficiency Savings

- Anaheim
- Burbank
- Glendale
- Los Angeles DWP
- Imperial ID
- Modesto ID
- Pasadena
- Redding
- Riverside
- Roseville
- SMUD
- Silicon Valley Power
- Turlock ID

# Purpose of POU Energy Efficiency Legislation 2005-06

- Procure all cost-effective energy efficiency measures so that the state can meet the goal of reducing total forecasted electricity consumption.
- First acquire all energy efficiency and demand reduction resources that are cost-effective, reliable, and feasible.
- POU energy savings help meet the Governor's greenhouse gas reduction targets established in Executive Order S-3-05 and AB 32.

# Requirements of SB 1037 and AB 2021

- POU's identify achievable, cost-effective efficiency potential every 3 years and establish annual targets based on that potential for a 10-year period
- CEC combines POU targets with IOU targets established by the CPUC into a statewide estimate of all potentially achievable electricity and natural gas savings and establishes annual targets over a 10-year period
- POU's report annually on their sources of funding, cost-effectiveness, and verified energy efficiency measures
- CEC compares annual targets to actual energy savings in the IEPR and makes recommendations for improvements as needed

# POU Economic Potential and Savings Targets by 2016

	<b>Economic Potential</b>	<b>Proposed Savings</b>	<b>Proposed Savings as % of Economic Potential</b>
<b>Energy Savings (MWh)</b>	10,657	6,424	61%
<b>Peak Savings (MW)</b>	1,991	1,353	68%
<b>Natural Gas Savings (MMth)</b>	4.5	0.9	21%

# Publicly Owned Utility Annual Targets and Budget Reported and Estimated 2006-2016

<b>Energy Efficiency Savings</b>	<b>2006 Reported</b>	<b>2007 Reported</b>	<b>2008 Estimated</b>	<b>2016 Estimated</b>
MWh	169,000	254,000	541,000	701,400
MW	53	56	117	1,353
Expenditures	\$54,000,000	\$63,000,000	\$145,000,000	N/A

## Additions to the 2007 POU Program Report

- Calculates cost-effectiveness for each program portfolio – average benefit/cost measure exceeds 3.0
- Reports on GHG emissions reduction due to efficiency:
  - 1.5 million tons of CO<sub>2</sub> in 2007
  - 3.3 million tons of CO<sub>2</sub> expected in 2008