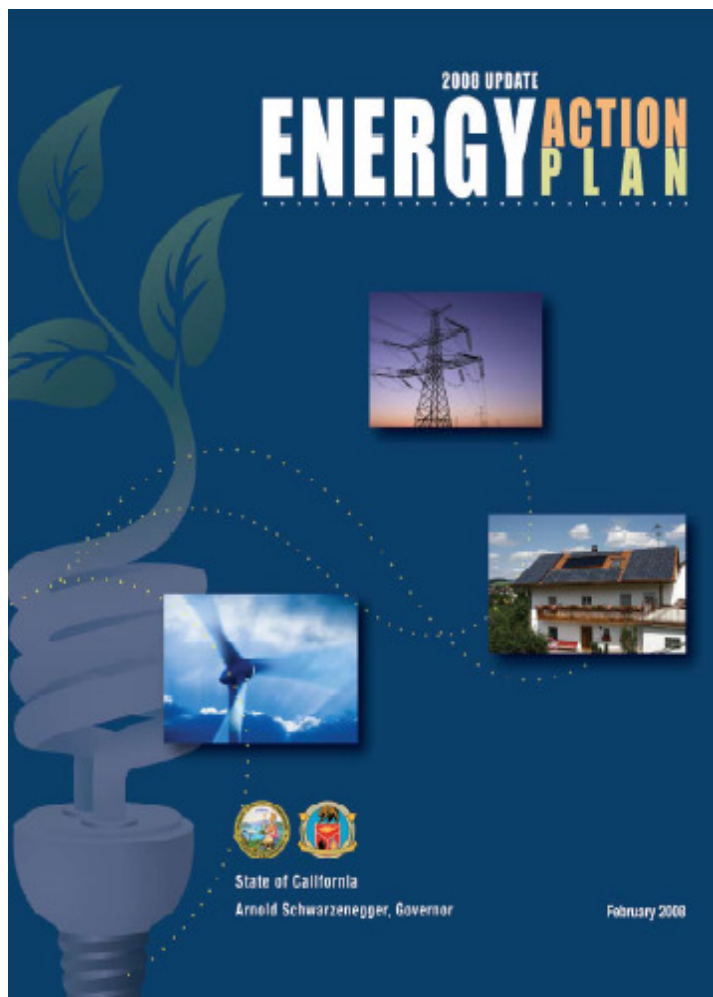
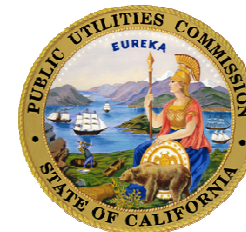




# *The Californian Approach To Smart Grid Policy - A Regulatory Perspective*

Commissioner Dian M. Grueneich  
California Public Utilities Commission  
December 9, 2009

# California's Preferred Resource



## "Loading Order" of Energy Resources:

- Energy efficiency
- Demand response
- Distributed generation
- Renewable generation
- Cleanest available fossil resources

**California Public Utilities  
Code Section 454.5**

# Smart Meters: Full Deployment by 2012



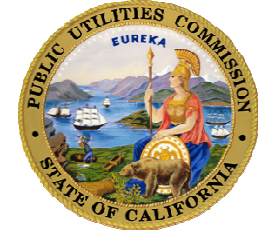
## *Increase System Efficiency*

- Enhance operating efficiencies and savings
  - Auto meter reading, outage management, improved forecasting, theft reduction
- Support billing, customer support, outage management
- Interface with Direct Load Control communication technology

## *Enable Customer Interface and Dynamic Pricing*

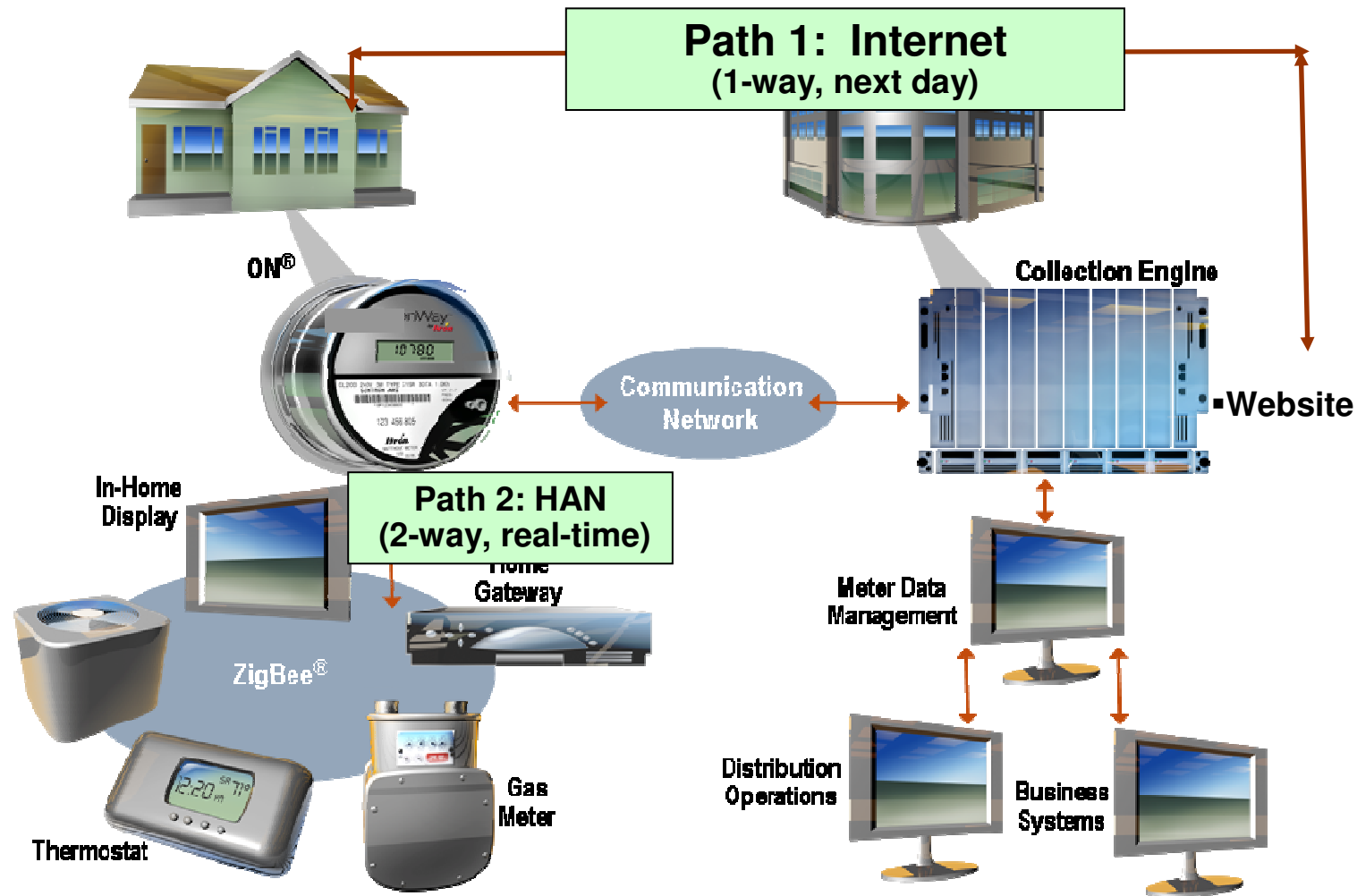
- Provide two- way communication with utility
- Provide customers with flexible access to usage data and prices
  - Understand usage patterns & their relationship to energy costs
- Track interval (e.g., hourly) usage data: measure, store, transmit
- Implement dynamic pricing

# California Advanced Metering Synopsis

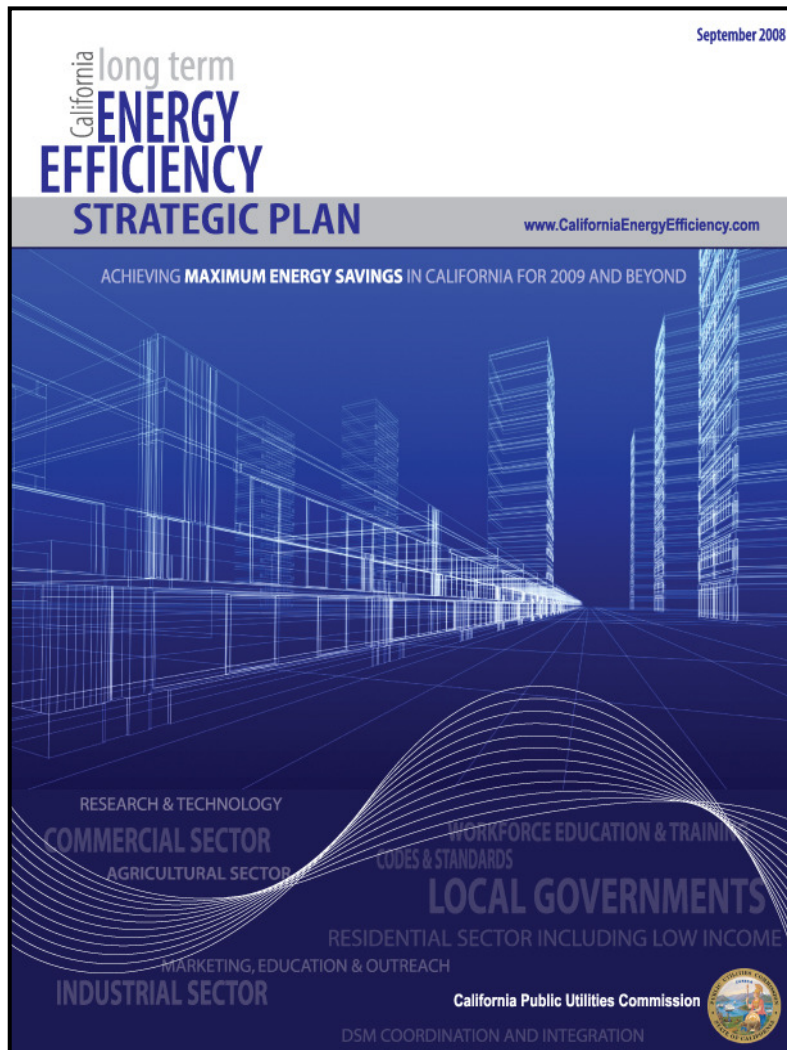


	Pacific Gas & Electric	San Diego Gas & Electric	Southern California Edison
# of Electric Meters	5.1M	1.4M	5.3M
# of Gas Meters	4.2M	0.9M	N/A
Costs Approved	\$2.3B	\$0.6B	\$1.7B
Deployment Schedule	2006 to 2012	2008 to 2011	2009 to 2012

# Usage Feedback & DR Signaling



Home Area Network (HAN) = Zigbee (a communication protocol)



# The California Long Term Energy Efficiency Strategic Plan

[www.californiaenergyefficiency.com](http://www.californiaenergyefficiency.com)

*Integrated Energy Efficiency, Demand Response and Self-generation Programs*