



CALIFORNIA ENERGY COMMISSION

STAFF WORKSHOP

EMERGING RENEWABLES PROGRAM GUIDEBOOK

JULY 21, 2009





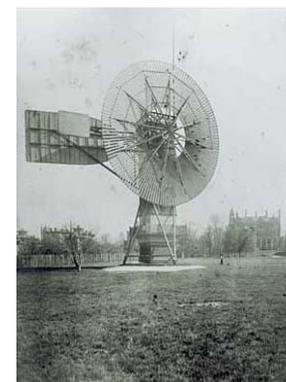
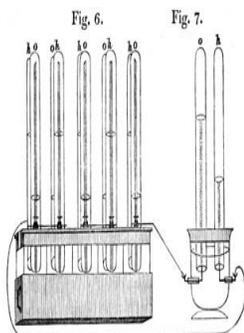
Agenda

- 10:00 – 10:15 Welcome and Overview of Agenda
Payam Narvand, Supervisor
Renewable Energy Office
- 10:15 – 10:25 ERP History, Activity, Rebate levels
James Lee, Renewable Energy Office
Sherrill Neidich, Renewable Energy Office
- 10:25 – 10:30 Consumer Education, Jim Folkman
- 10:30 – 11:00 KEMA Report - Overview/Recommendations
Nellie Tong, KEMA
- 11:00 – 12:00 Stakeholder Comments
- Break for lunch at 12:00
- 1:00 – 3:00 Permitting Panel Discussion/Comments
Anthony Ng, Renewable Energy Office



Emerging Renewables Program History

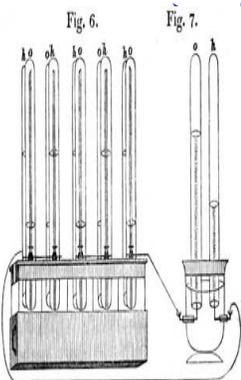
- This Emerging Renewables Program (ERP) Guidebook is one of several guidebooks the California Energy Commission (Energy Commission) has adopted to implement the Renewable Energy Program pursuant to Senate Bill 1038, Senate Bill 183, Senate Bill 1250, and Senate Bill 107.
- The program provided also funding from 1998 to 2006 for solar photovoltaic systems. Solar PV was removed from the ERP Guidebook at the end of 2006, due to the passage of Senate Bill 1. The Energy Commission oversees the administration of solar PV rebates for the new residential home market under a the New Solar Homes Partnership Program.





Emerging Renewables Program History

- The Program was created in 1998 to help develop a self-sustaining market for renewable energy systems that supplied on-site electricity needs. Through this program, the Energy Commission provides funding to offset the cost of purchasing and installing new renewable energy systems using emerging renewable technologies.
- The goal of the program is to reduce the net cost of on-site renewable energy systems to end-use consumers, and thereby stimulate the demand and increase the sales of such systems.



The ERP Guidebook describes the requirements for receiving funding for the installation and operation of small wind systems (up to 50 kW) and fuel cell systems (up to 30 kW).





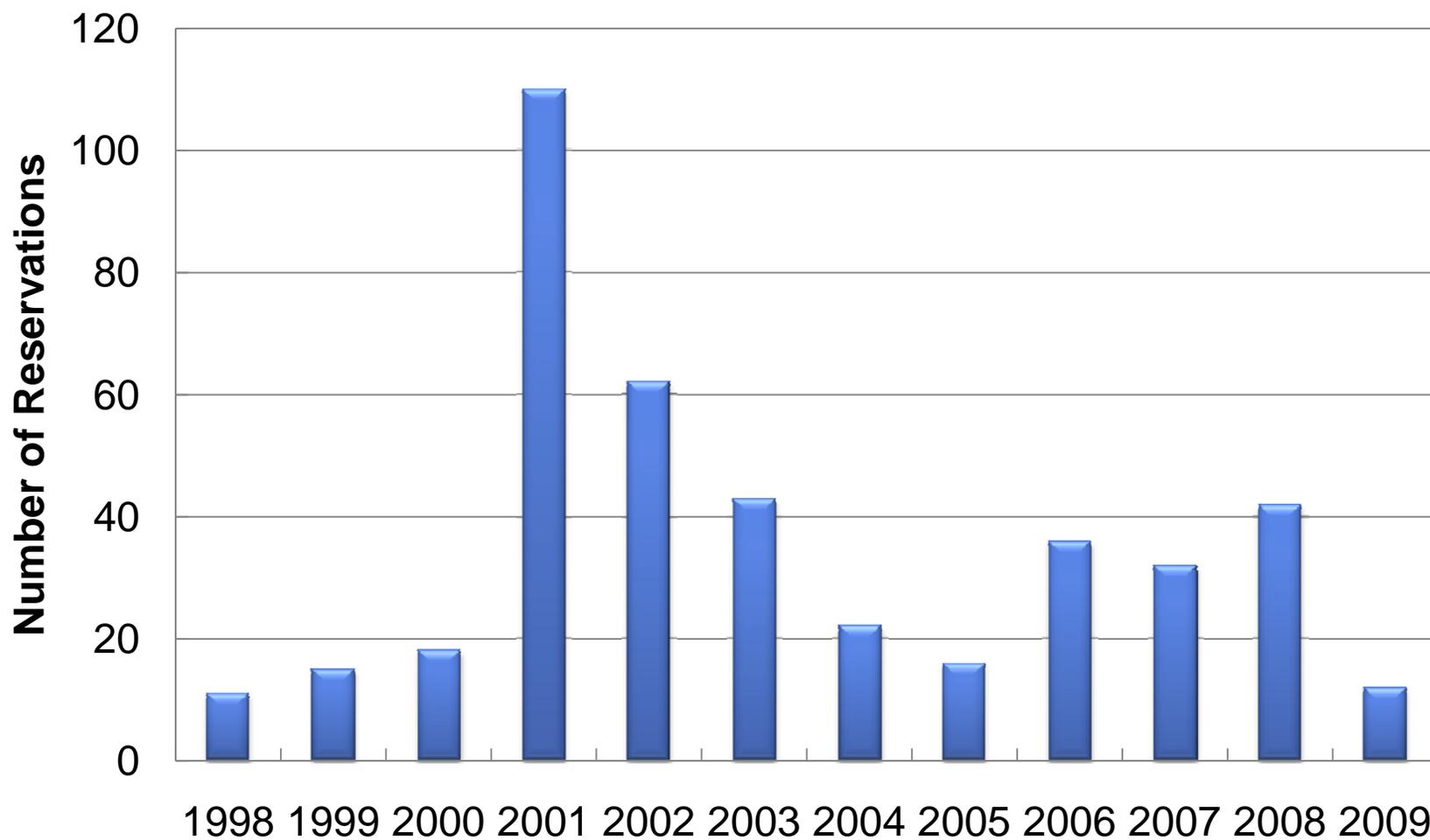
Emerging Renewables Program Activity

Since 1998 there have been:

- 412 small wind turbine systems installed
- 2 fuel cell systems installed
- 2.5 MW electricity capacity
- Over \$5.7 million in rebate incentives have been paid



Emerging Renewables Program Activity, cont.





Current Small Wind Turbine Incentives

- First 7.5 kW - \$2.50 per watt
- Increments between 7.5 kW and 30 kW - \$1.50 per watt
- Maximum wind system size allowed under ERP is 50 kW, however, rebates are limited to 30kW or less
- Federal Investment Tax Credit (ITC) – 30% of total system cost with no maximum until 2016. The Federal ITC does not reduce the rebate received under ERP



Current Fuel Cell Incentives

- Fuel cells using a renewable fuel - less than 30 kW, \$3.00 per watt

- Federal Investment Tax Credit (ITC)
 - \$500 per 0.5 kW
 - Minimum size eligibility is 0.5 kW
 - Must have electricity-only generation efficiency greater than 30%
 - Expires in 2016



What Happens Next

- August 4 – Deadline for written comments
- Staff reviews and compiles possible changes
- Staff will seek direction from Renewables Committee
- Staff will make changes and publish proposed guidebook.



Contacts

- **California Energy Commission**
www.energy.ca.gov
- **Emerging Renewables Program Guidebook – Ninth Edition (adopted February 25, 2009)**
<http://www.energy.ca.gov/2009publications/CEC-300-2009-002/CEC-300-2009-002-F.PDF>
- **KEMA Report**
<http://www.energy.ca.gov/2009publications/CEC-300-2009-003/CEC-300-2009-003.PDF>
- **California Energy Commission - Consumer Energy Center**
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