

CALIFORNIA STATIONARY FUEL CELL COLLABORATIVE

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California Air Resources Board**

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Background

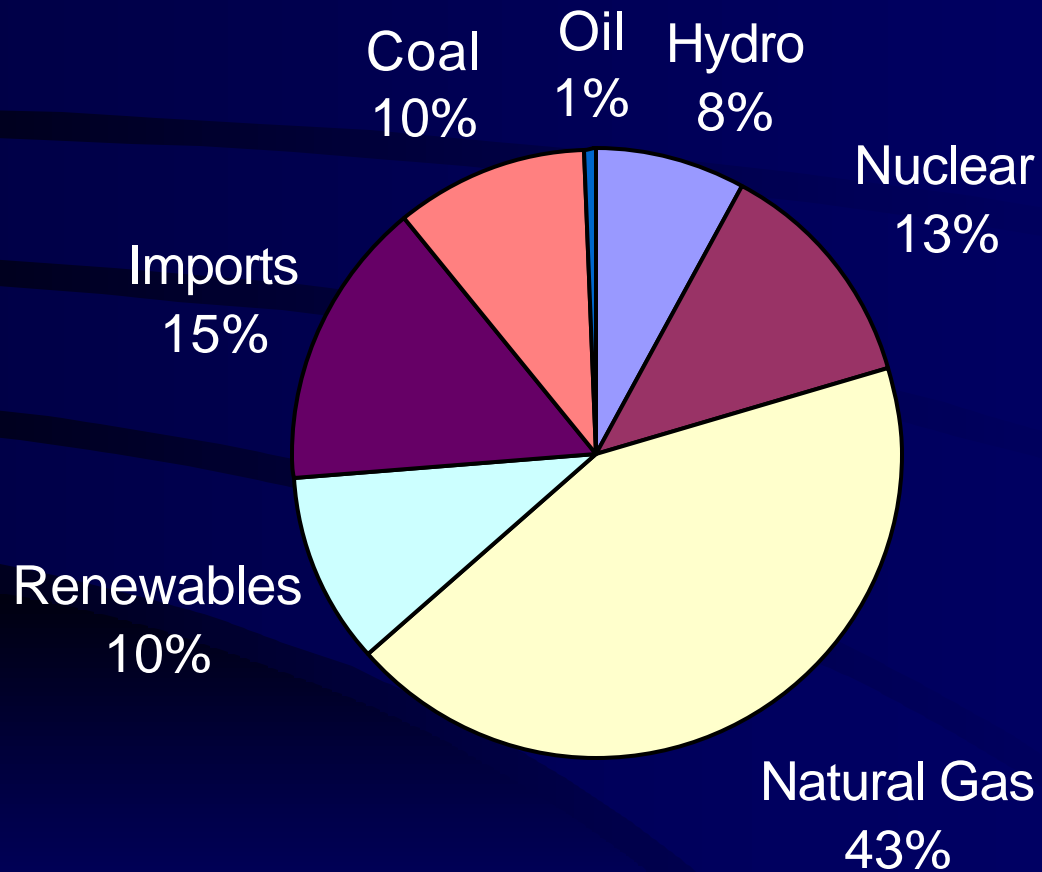
- Collaborative formed to commercialize fuel cells in California
 - Government Organizations
 - California Agencies (Governor's Office, ARB, CEC, DGS, CPA, SCAQMD)
 - Federal Agencies (DOE, DOD)
 - National Fuel Cell Research Center
 - US Fuel Cell Council

Mission

The mission of this Collaborative is to promote stationary fuel cell commercialization as a means towards:

- reducing or eliminating air pollutants and greenhouse gas emissions,
- increasing energy efficiency,
- promoting energy reliability and security,
- promoting energy diversity,
- promoting energy independence, and
- realizing a sustainable energy future.

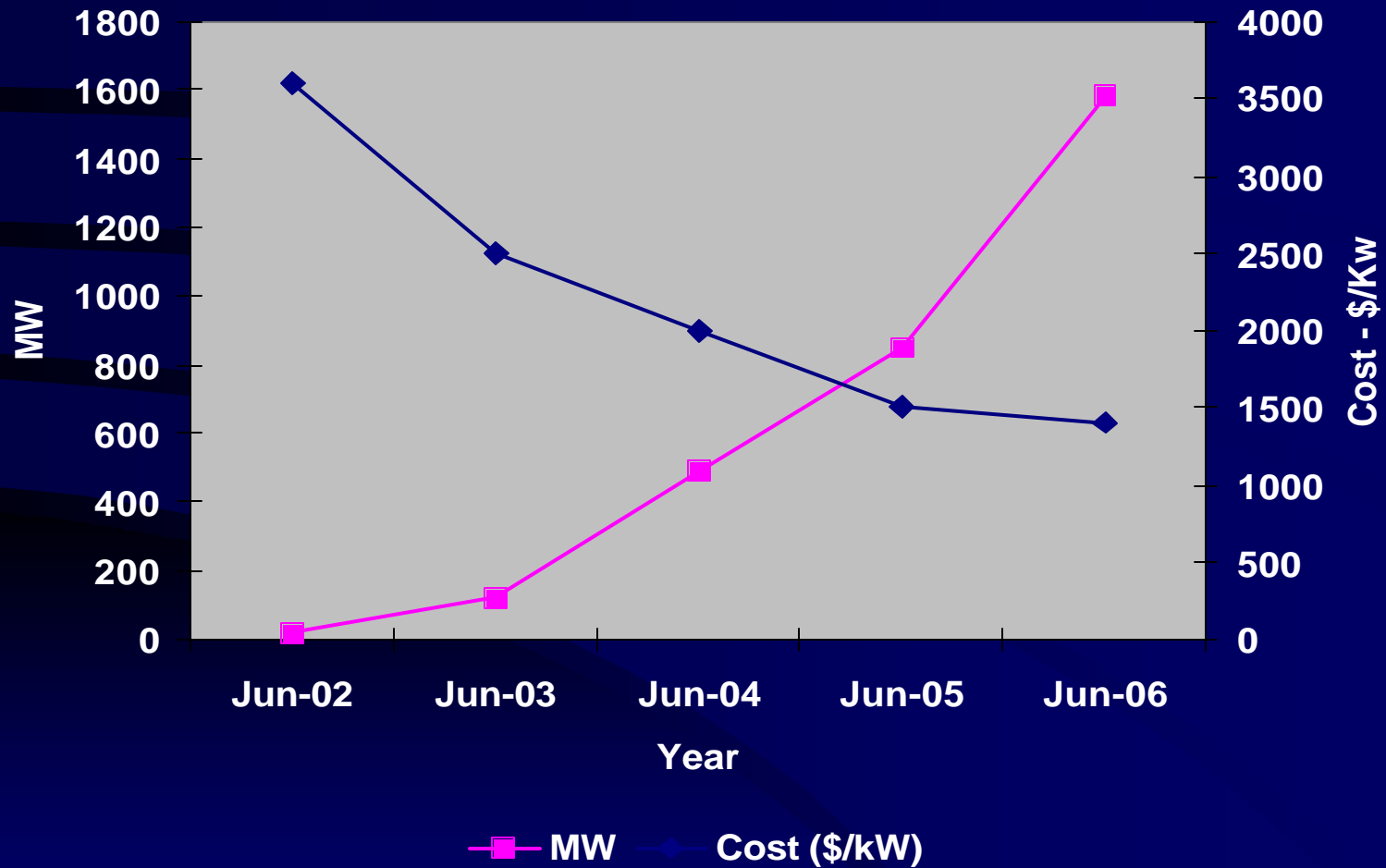
Electricity Supply by Fuel Type



Collaborative Efforts to Date

- Organized Collaborative effort to commercialize stationary fuel cells
- Conducted a Market Survey
- Identified mission/targets/goals
- Raised the level of awareness and expectations with industry
- Impacted business plans of fuel cell manufacturers

Our Survey



Other Agency Efforts

- **California Power Authority**
 - **Solicited Bids from Fuel Cell Manufacturers**
 - **Energy Resource Investment Plan**
 - **Contains Goal of 3500 MW of decentralized capacity**
 - **Includes Financing Fuel Cell Projects through Public Agency Loan Program**

Other Agency Efforts

- California Department of General Services
 - **A Blueprint for Sustainable State Facilities**
 - **Developing RFP for Bulk Purchase of Fuel Cells and Photovoltaics (PV)**
 - **Developing Policy Recommendations to Require Fuel Cells and PV in New Construction of State Facilities**

Other Agency Efforts

- **California Public Utilities Commission**
 - **Adopted an Incentive Program to Provide**
 - **\$4.00/Watt for Fuel Cells Using Renewable Fuels**
 - **\$2.50/Watt for Fuel Cells Using Nonrenewable Fuels**
 - **Program Administered by Public Utilities**

Other Agency Efforts

- **California Energy Commission**
 - **Public Interest Energy Research Program**
 - **Up to \$62 Million for promising public interest energy research**
 - **Brings new energy services and products to the marketplace including renewable energy projects**
 - **Fuel Cell Demonstration Program**
 - **Distributed Generation Strategic Plan**

Other Agency Efforts

- **Governors Office of Planning and Research**
 - Developed Methods for “Green Accounting”
 - Developed Renewable Energy and Distributed Generation Vision for California
 - **Identified energy efficiency and distributed generation needs for public buildings**
 - **The cost of energy for public buildings and methods to meet 20% goal for Renewables**

Now Moving from Planning to Implementation Functions

- We are coordinating our efforts with other Agencies
- Concurrently working on developing sites and procurement mechanisms
- Working on developing demonstration sites

Our Challenges

- What will it take to really get the cost down?
- How can we keep the effort moving at an accelerated pace?
- What are the correct policy decisions?
- What structure do we need to achieve the goals/targets?
- What is the context in which we have to face these challenges?

Strategic Plan

- Establish a strategy to achieve the mission
- Identify and attend to immediate tasks
- Designate responsibilities for immediate tasks
- Highlight the milestones reached to date and provide brief summary of Plan

Overview of Plan

- An overview of the Collaborative
- A discussion of the external environment within which the effort of the Collaborative is being undertaken
- A description of six key elements that are the basis for the Plan
- Recommendations on short-term priority tasks, lead agencies and time frames

Next Steps

- Complete Short-term Tasks.
 - Develop RFP for State Buildings
 - Develop the Economic Case for Fuel Cells
 - Identify Areas For Further Work With Industry
- Hold Industry Meeting
 - Meeting scheduled for August 28
 - Holding discussions with specific companies prior to meeting

How to Reach Us

- Key Contacts
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