

Partnership Programs



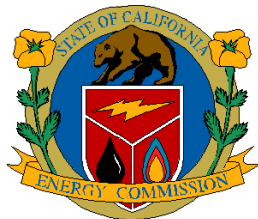
Advanced Turbine Systems Annual Program Review Meeting

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California Energy Commission

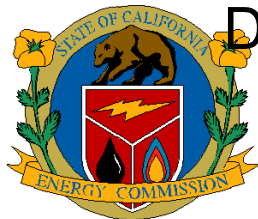
November 9, 1999



R&D Funding From AB1890



- Deregulated generation side of CA electricity industry starting January 1, 1998
- Provides for a public goods charge to be collected by IOUs to continue funding for public interest programs, 1998 to 2001
 - ➔ \$228 million annually for energy efficiency & conservation (CBEE/CPUC)
 - ➔ Total of \$540 million for existing, new and emerging renewable electricity generation (CEC)
 - ➔ \$62.5 million annually for Public Interest Research and Development (\$61.8 administered at CEC)

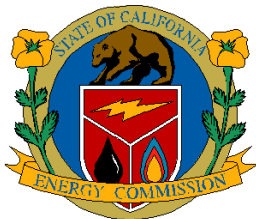


Strategic Plan: RD&D Mission



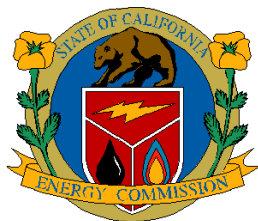
Through Public Interest Energy Research, Development and Demonstration:

- Improve quality of life for California's citizens by providing environmentally sound, safe, reliable, and affordable energy
- Definition of "Public Interest Energy Research": To Advance science and technology not adequately provided by competitive and regulated markets



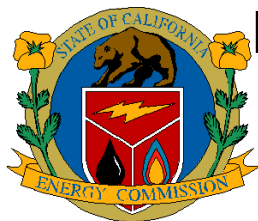
Strategic Plan: PIER Subject Areas

- Renewable Energy
- Energy Efficiency: Buildings
- Energy Efficiency: Industrial
- **Environmentally Preferred
Advanced Generation (EPAG)**
- Environmental
- Strategic



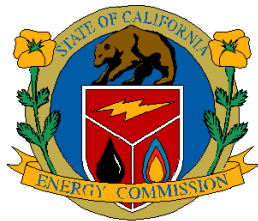
SB90/Strategic Plan: RD&D Objectives

- Balanced Portfolio that Addresses California's Energy & Environmental Needs, Technology Opportunities and System Reliability across Five Subject Areas
- Program Balances Risks, Time, and Public Benefits Consistent with State Policies
- RD&D Knowledge Base Created for Public and Private Decision-making
- Projects Connected to Market through Planning and Technology Transfer; Partner with other Program & Leverage Funds



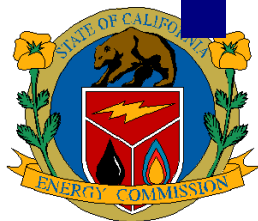
SB 90/Strategic Plan: PIER Objectives

- Public input and accountability in planning, decisions, review & evaluation
- Balancing efficient administration and stewardship
- Leadership in Coordination within California RD&D community
- Outreach to and collaboration with other states and federal energy agencies, academic, and industrial partners to assure market connectivity and to focus and leverage limited funds



PIER Collaborations

- DOE-FETC
- DOE-OIT
- University of California
- National Ass'n of State Energy Officers (NASEO)
- California Alliance for Distributed Energy Resources (CADER)
- EPRI
- GRI



EPAG Technology Targets

- High efficiency, low emissions gas turbines
- Fuel cells
- Advanced reciprocating engines
- Fuel cell/gas turbine hybrids and innovative cycles
- Power conditioning systems
- Ultra-low Nox combustion

