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COST SHARE ACTIVITIES

Pedro Gomez

Energy Technology Systems Integration
California Energy Commission

PUBLIC INTEREST ENERGY RESEARCH (PIER) PROGRAM

- Established as a Utility Funded R&D Program in 1997 by AB1890
- \$86M Annual Budget
- Over \$400M in Active Projects
- Strong Emphasis on Partnerships
 - Federal and State Agencies
 - National Laboratories
 - Universities
 - Utilities
 - Private Researchers



RESEARCH POWERS THE FUTURE

Research to meet our Energy Policy Goals

- Greenhouse Gas Emission Reduction
- Renewables Portfolio Standard
- Zero Net Energy – Smart Communities
- Alternative Fuels – Electric Fuel Vehicles
- Enable Ratepayer Participation to Reduce Costs
- Create Jobs in Clean Energy Economy



ARRA Projects form Foundation for California's Clean Energy Economy

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LEADING THE WAY

PIER Utility Grid Research over the last 10 years

- Synchrophasors
- Energy Storage
- Renewable Integration
- Demand Response
- Grid Security
- Electric Vehicles Integration
- Other areas of Smart Grid



Our Research has made California the leader in Smart Grid

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AMERICAN RECOVERY & REINVESTMENT ACT

FOA 36 – Smart Grid Demonstrations FOA 58 – Smart Grid Investment Program

\$4.5 Billion in Smart Grid Research:

- Demand Response
- Grid Security
- Energy Storage
- Renewable Integration
- Distribution Automation
- Phasor Deployment
- PHEV Integration



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GOLDEN STATE LEVERAGE

Support California based proposals to the DOE that...

- Compliment California Energy Policy
- Provide Ratepayers Benefits
- Develop a Clean Energy Workforce
- Expand California Cleantech Businesses Globally

Energy Commission provided

- Letters of Support
- Co-funding
- Technical Insights and feedback



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WHY SUPPORT ARRA PROJECTS?

- Accelerate Smart Grid Implementation
- Modernize the California Grid
- Share Lessons Learned with other California Based Projects
- Identify Gaps in Research
- Identify needs for and help coordinate Standards Development
- ARRA Projects form the Foundation for California's Clean Energy Economy
- PIER Supported projects will help California meet the State's Energy and Environmental Policy Objectives

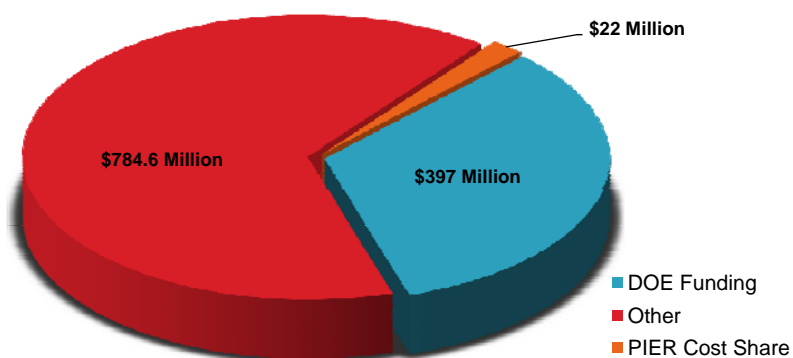


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PIER Supported Projects

- PIER Allocation – \$22 Million
- PIER Supported projects Will Help California Meet The State's Energy And Environmental Policy Objectives



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FOLLOW-UP QUESTIONS

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California energy Commission

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