



U.S. DEPARTMENT OF
ENERGY

Energy Efficiency and Renewable Energy

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**2009 DOE Hydrogen Program and
Vehicle Technologies Program**

Annual Merit Review and Peer Evaluation Meeting

May 18, 2009



New Energy for America's Economy

Investing in the Clean Energy Jobs of the Future

- New jobs in the clean energy economy
- Next generation of energy technologies

Securing our Energy Future

- Breaking dependence on oil
- Producing more energy at home
- Promoting energy efficiency



Transforming the energy economy through science and innovation



Invests in Obama Administration's priorities for improvements in energy efficiency and job-creation in the near term

Emphasizes programs with higher near-term impact to invest in our economic future

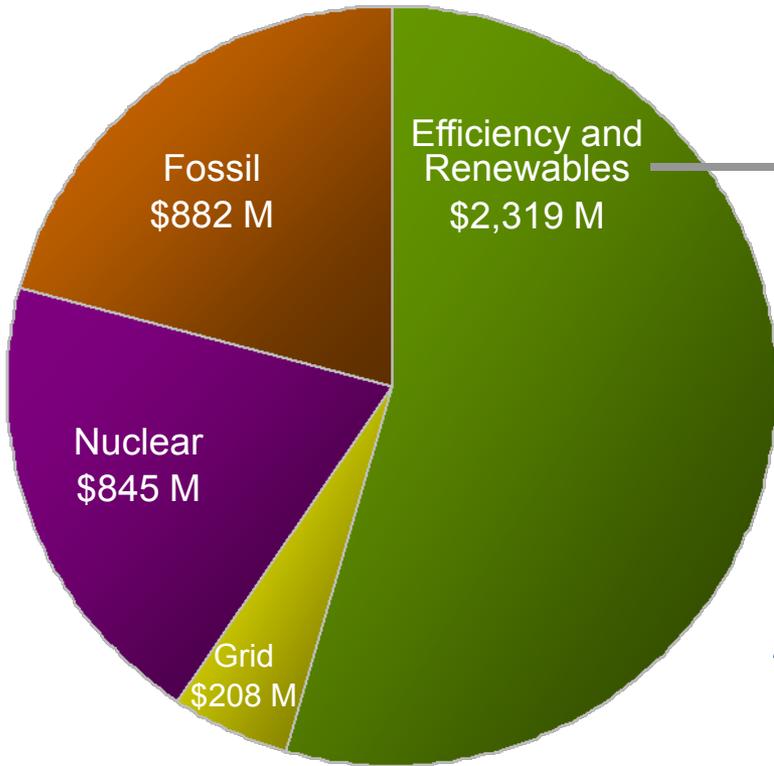
Grounded in more effective management



FY2010 budget invests in clean energy priorities

Energy FY2010 Budget Request

Total: \$4.3 billion



Notable Changes (from FY09 to FY10)

Solar	+ 83%	+ \$145M
Buildings	+ 60%	+ \$98M
Wind	+ 36%	+ \$20M
Vehicles	+ 22%	+ \$60M

Clean energy investments create jobs, reduce dependence on oil, and confront climate change.

DOE FY2010 Budget Request Total: \$26.4 billion



FY2010 budget funds breakthrough science

46 Energy Frontier Research Centers

– \$100 million –

- 1,800 researchers and students
- Universities, national labs, industry, and non-profits
- 1/3 will be supported by Recovery Act funding

ARPA-E

– FY10: \$10 million | ARRA: \$400 million –

- Grants
- Development of breakthrough energy technologies

Eight Energy Innovation Hubs

– \$280 million –

- Encourage collaboration and team science
- Connect research lab to industrial world



This merit review will focus on activities during the past year for the Hydrogen Program and the Vehicle Technologies Program.

Hydrogen Program

EERE

BES

FE

NE

R&D Activities

- Production & Delivery
- Storage
- Fuel Cells
- Manufacturing

Common Activities

- Safety, Codes & Standards
- Education
- Technology Validation

Vehicle Technologies Program

R&D Activities

- Hybrid Electric Systems
- Materials Technologies
- Fuels Technologies
- Advanced Combustion Engines

Systems Analysis & Market Transformation

Other Fuel Cell Applications

(Stationary/Backup, Portable, and Specialty Vehicles)

Transportation Applications