



**U.S. DEPARTMENT OF
ENERGY**

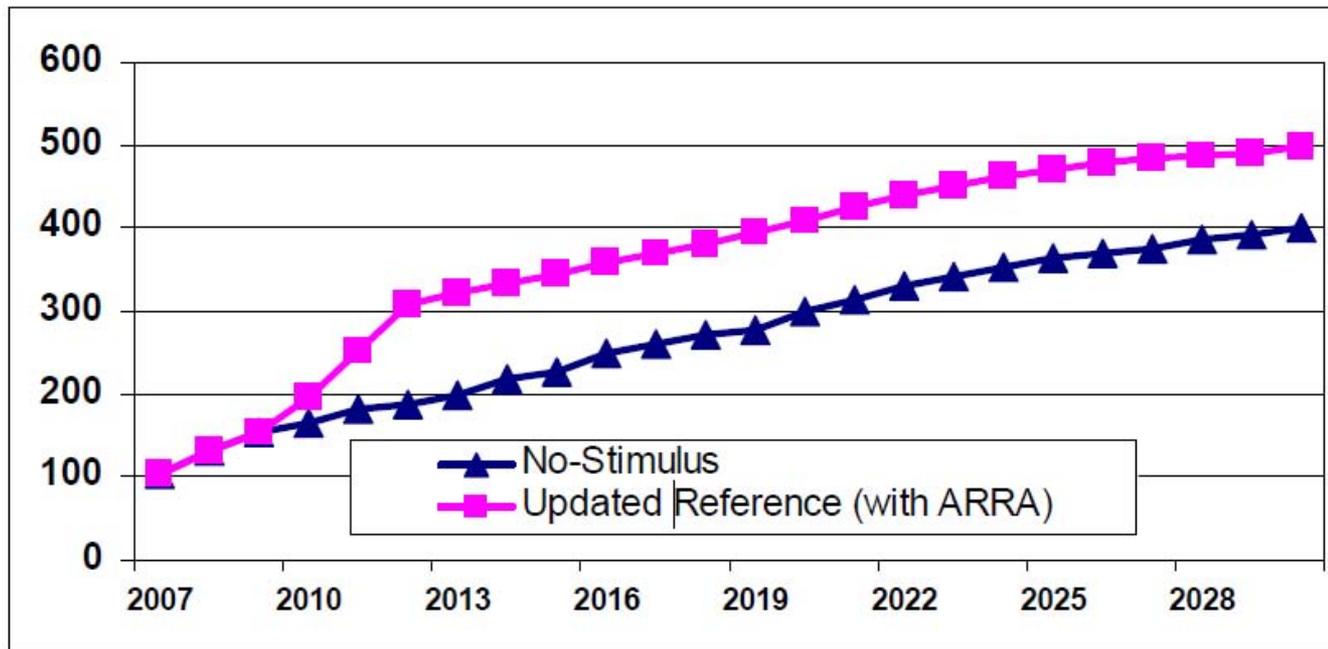
Department of Energy FY 2010 Budget

**Transforming the Energy Economy
through Science and Innovation**

May 7, 2009

EIA Analysis Shows Impact of Recovery Act

Figure 1. Non-Hydroelectric Renewable Generation
(billion kilowatthours)



Source: National Energy Modeling System runs STIMULUS.D041409A and NOSTIMLS.D041409A.

On track to
double
production of
renewable
generation in
next few
years

Source: EIA -- An Updated Annual Energy Outlook 2009 Reference Case



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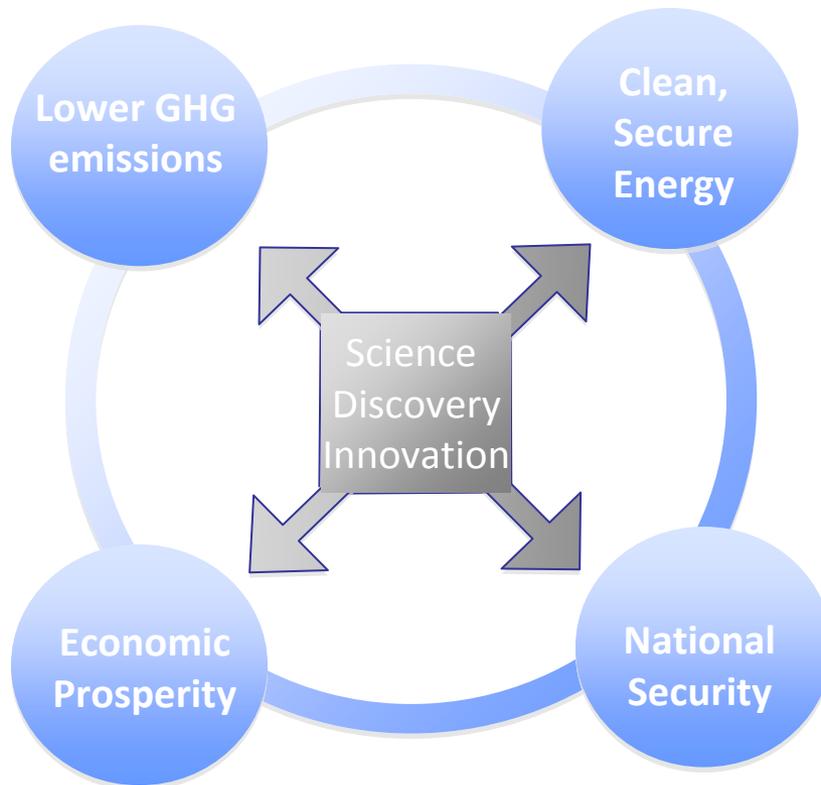
EIA Analysis Shows Impact of Recovery Act

Wind generation by 2012 will be more than double what it would have been without ARRA

Geothermal power will be 16 percent greater than it would have been without ARRA

ARRA will save households an average of \$64 annually on energy bills between 2009 and 2030

DOE's FY 2010 budget request – \$26.4 billion



Invests in Obama Administration's priorities

Cuts less effective programs so we can invest in our economic future

Grounded in more effective management

**FY 2010 budget
funds
breakthrough
science**

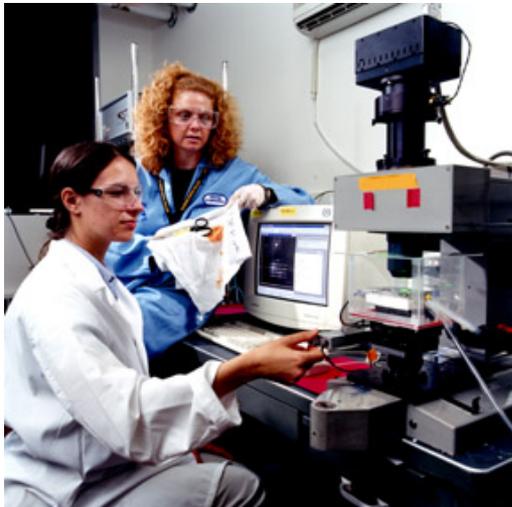
46 Energy Frontier Research Centers \$100 million

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

ARPA – E

\$10 million FY10; \$400 million ARRA

- Grants
- Development of breakthrough energy technologies



**FY 2010 budget
funds
breakthrough
science**

**Eight Energy
Innovation Hubs –
\$280 million**

**Encourage collaboration and
team science**

**Connect research lab to
industrial world**

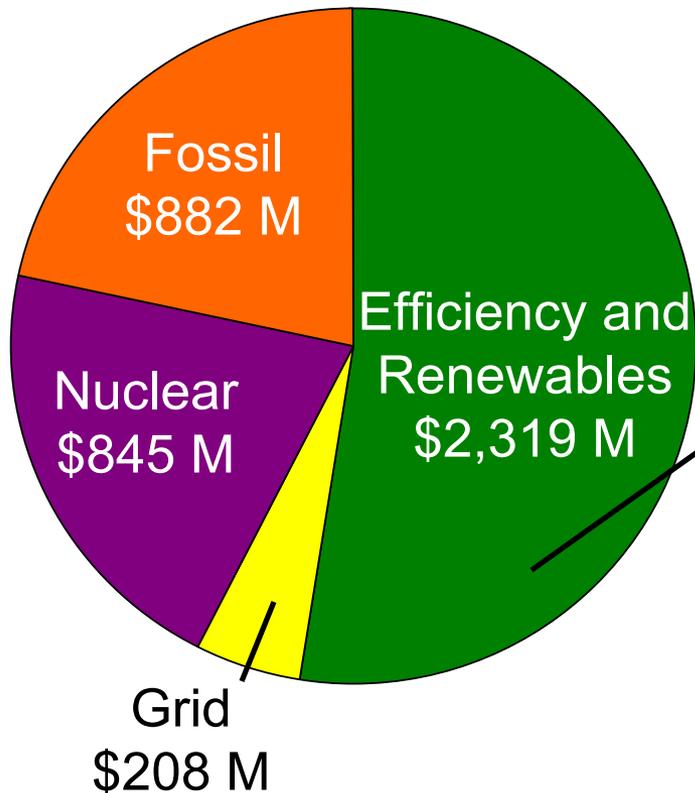
Builds on success of DOE's Bioenergy Research Centers:



New Energy for America's Economy

Energy FY 2010 Budget Request

**FY 2010 budget
invests in clean
energy priorities**



Notable Changes (FY09 to FY10)

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

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

**FY 2010 budget
cuts less
effective
programs so we
can invest in
our economic
future**

For example:

Cutting funding for deep-water and unconventional oil and gas research that industry can and does fund on its own.

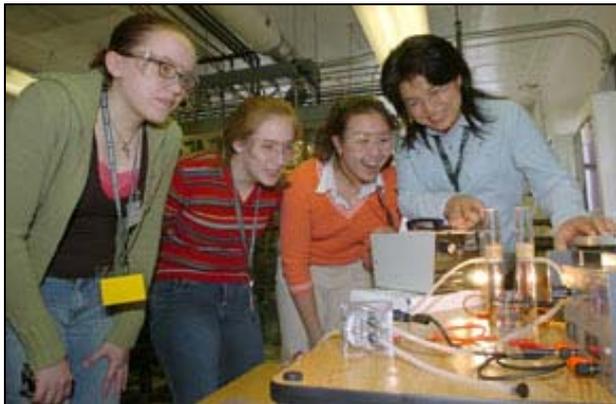
Moving away from funding vehicular hydrogen fuel cells to technologies with more immediate promise

RE-ENERGYSE

REgaining our ENERGY
Science and Engineering
Edge

\$115 million

Partnering with National
Science Foundation



**FY 2010 budget increases
America's
competitiveness**

	RE-ENERGYSE	Workforce Development for Teachers and Scientists	Total
Under-graduates	1000	735	1735
Graduate students	400	60	460
Post-doctoral fellows	200	0	200

FY 2010 budget enhances our nuclear security



Before



After

NNSA
radiation
monitoring
and border
control
upgrades
in
Sadakhlo,
Georgia

- **Reduce the Risk of Proliferation -- \$2.1 B**

Begins to address presidential priority of securing all vulnerable nuclear material around the world within four years

- **Maintain our Nuclear Security Enterprise -- \$6.4 B**

Preserves the science and technology base needed to support our nation's nuclear deterrent, support nuclear counter-terrorism, and address other national security challenges

- **Accelerate Environmental Cleanup -- \$5.8 B**

Continues to accelerate cleanup and closing of sites, focusing on activities with greatest risk reduction

**DOE will use its
resources
responsibly,
transparently, and
effectively**

Reforming DOE business operations from top to bottom

Procurement

Property management

Information technology

Human capital

