



APEC Expert Group on Energy Efficiency and
Conservation (EGEE&C)
33rd Meeting
Singapore
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United States Project Updates
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**SESSION 5:
ECONOMY UPDATES
USA**

The American Political Perspective

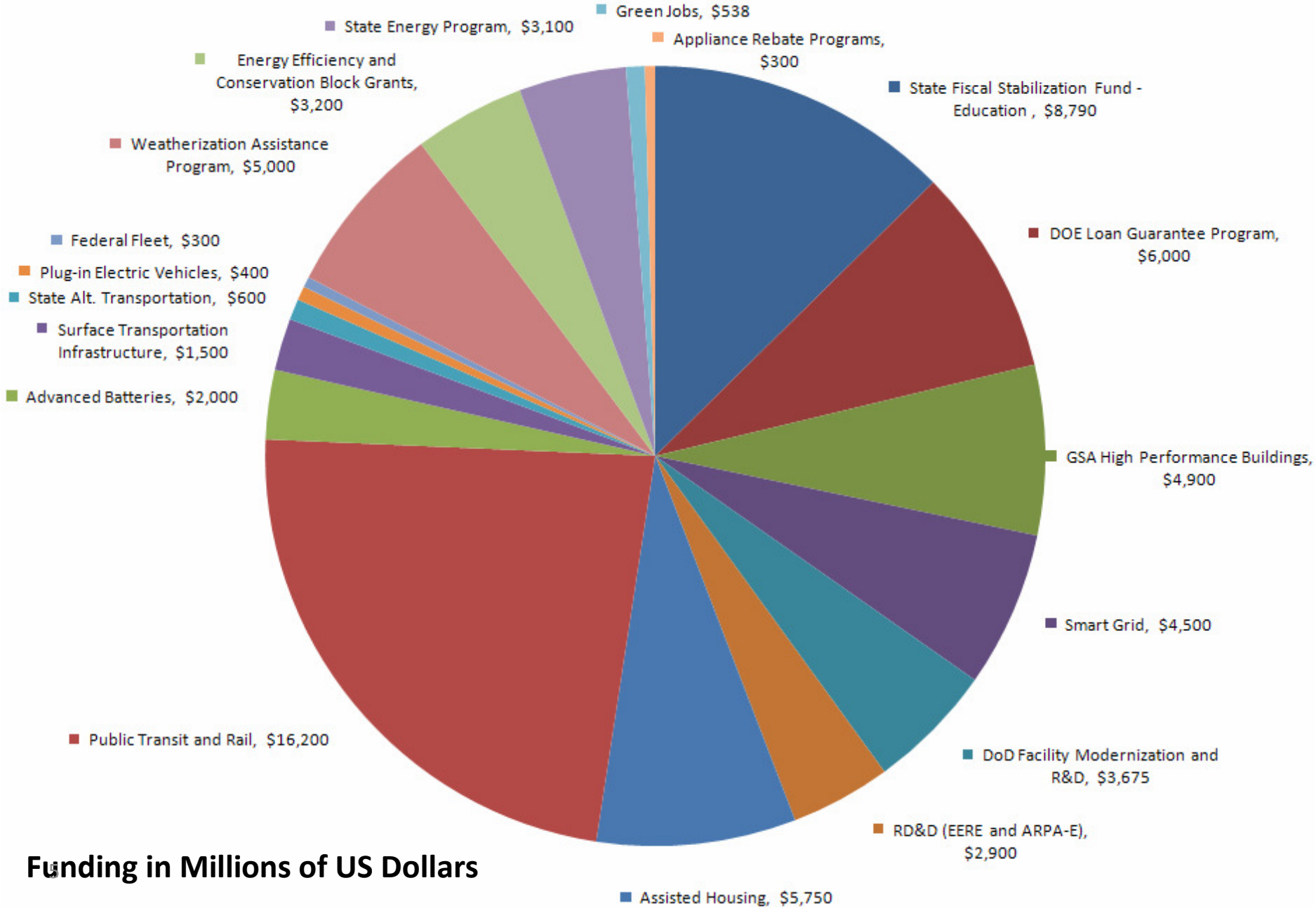
- Energy efficiency is becoming increasingly visible in national policy-making
 - Energy Policy Act of 2005 (EPAAct '05)
 - Energy Independence and Security Act of 2007 (EISA)
 - Stimulus (February 2009)
 - Energy & Climate bill now in Congress
 - American Clean Energy and Security Act (House of Representatives) and American Clean Energy Leadership Act (Senate)

American Recovery and Reinvestment Act

- Major focus: the largest spending and tax bill in the nation's history
- Larger than the New Deal
- Big time opportunities ...
- But also big time issues about implementation



Stimulus: Potentially \$65 Billion related to energy efficiency



Funding in Millions of US Dollars

Core Energy Efficiency Funding

- SEP
 - Appropriated: \$3.1 billion
- EECBG
 - Appropriated: \$3.2 billion
- WAP
 - Appropriated: \$5 billion
- Green Jobs
 - Appropriated: \$500 million
- Smart Grid Investment Grant Program
 - Appropriated: \$4.5 billion
- Smart Grid Demonstration Projects
 - Appropriated: \$615 million
- HUD's EE Public Housing Capital Funds
 - Appropriated: \$4 billion
- HUD's Green Retrofit Program
 - Appropriated \$250 million

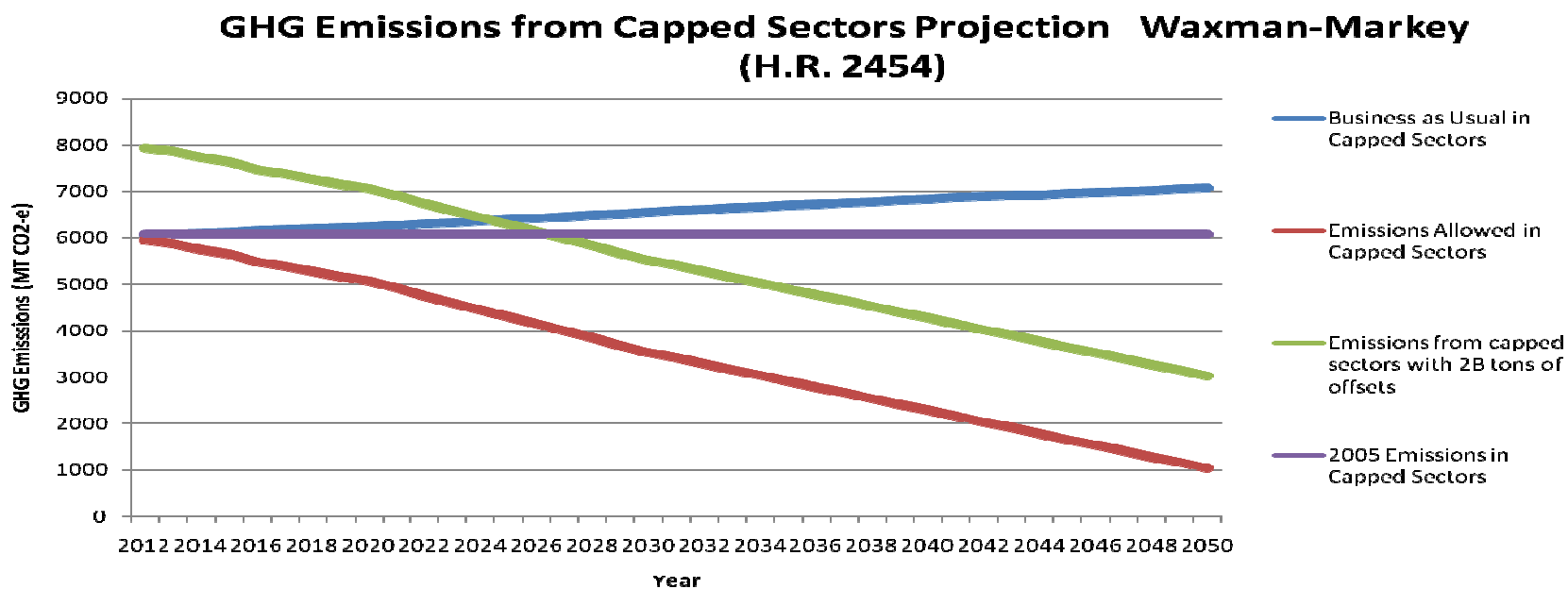
EE Highlights in ACES*

- Cap on carbon: 83% reduction in covered emissions by 2050 (85% of emissions are covered)
- Building codes, building labels, appliance standards and labels
- Renewable electricity standard of 20% by 2020 – a quarter may be met through EE, or 40% if governor requests
- Vehicle emissions standards
- Land use planning to reduce VMT

Waxman-Markey

The Crown Jewel: Carbon Cap

- **85% of US GHG emissions covered**
 - Could be higher
- **Covered emissions reduced 83% in 2050**
- **Defend and protect the cap!**



Source: Alliance analysis based on HR 2454 and EPA Preliminary Analysis of the Waxman-Markey Discussion Draft, April 20, 2009

EE Highlights in ACELA

- Renewable electricity standard of 15% by 2021
 - 4% may come from efficiency if governor petitions
- Improvements in model building energy codes
 - 30% by 2010
 - 50% by 2016
- Energy Efficiency in Manufacturing
 - Funding for research and implementation of EE technologies, expansion of IACs
- Clean energy investment fund
 - Loans, loan guarantees, etc., for commercialization of clean energy technologies

EE Highlights in ACELA

- New energy efficiency standards
 - for portable lighting fixtures, commercial furnaces and reflector lamps; new appliance test procedures
- State building retrofit grant program
 - Grants for retrofits of residential and commercial buildings
- Voluntary building energy performance information program
 - To display relative energy performance; raise public awareness
- Residential High-Performance Zero-Net-Energy Buildings Initiative
 - Goal to enable residential buildings without net emissions to be cost-effective by 2020

New Senate Climate Bill

- Kerry-Boxer Clean Energy Jobs and American Power Act
- Released September 30, 2009
- 20 percent carbon emissions reduction target by 2020 (2050 target same as ACES)
- Market Stability Reserve (price collar) starts at \$28 in 2012 (to \$86 in 2030)

Non Federal Actions & Goals for New Buildings

- U.S. Conference of Mayors
 - Reduce fossil fuel use by 60% in 2010, rising to 100% by 2030
- American Institute of Architects
 - Reduce fossil fuel use for new and renovated buildings by 50% by 2010, also rising
- ASHRAE (commercial building standards)
 - 2010 Standard 30% more stringent than 2004
- IECC (October 2008) increased energy codes by approximately 15%