



# **MIT-NESCAUM Endicott House Symposium**

## ***New Directions in Energy Policy and Impacts on Air Quality***

**10 August 2009  
Keynote Session**

**Bob Sawyer, Moderator  
Class of 1935 Professor of Energy Emeritus  
University of California at Berkeley**



# Recent Energy Policy Initiatives

- Renewable Fuel Standard of 2007--36 *billion gallons renewable fuel by 2022*
- Energy Independence and Security Act of 2007 [EISA]—*35 mpg by 2020*
- EPA/DOT/Auto Industry/CARB agreement —*250 CO<sub>2e</sub> g/mi (35.5 mpg) by 2016*
- The American Clean Energy and Security Act of 2009 [ACES] (HR2454 Waxman Markey)—*17% reduction by 2020, 83% reduction by 2050*



# ACES (Waxman-Markey)

- Cap and trade—*complex!*
- Renewable electricity standard—*20% by 2020*
- Performance standards— *coal plants, industrial plants, buildings, appliances*
- And more—*Carbon Storage Research Corporation, smart grid, electrical vehicles, electrical transmission*



# Keynote Session Speakers

- **Congressional Perspective**  
*Paul D. Tonko, Congressman, NY*
- **Bipartisan Energy Perspective from Washington, DC**  
*Jason Grumet, BPC*
- **Federal Climate Change Legislation**  
*Dave Hawkins, NRDC*  
  
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- **Future Energy Scenarios**  
*Howard Gruenspecht, EIA*
- **Where Will the Energy Come From?**  
*Nate Lewis, Caltech (via video)*



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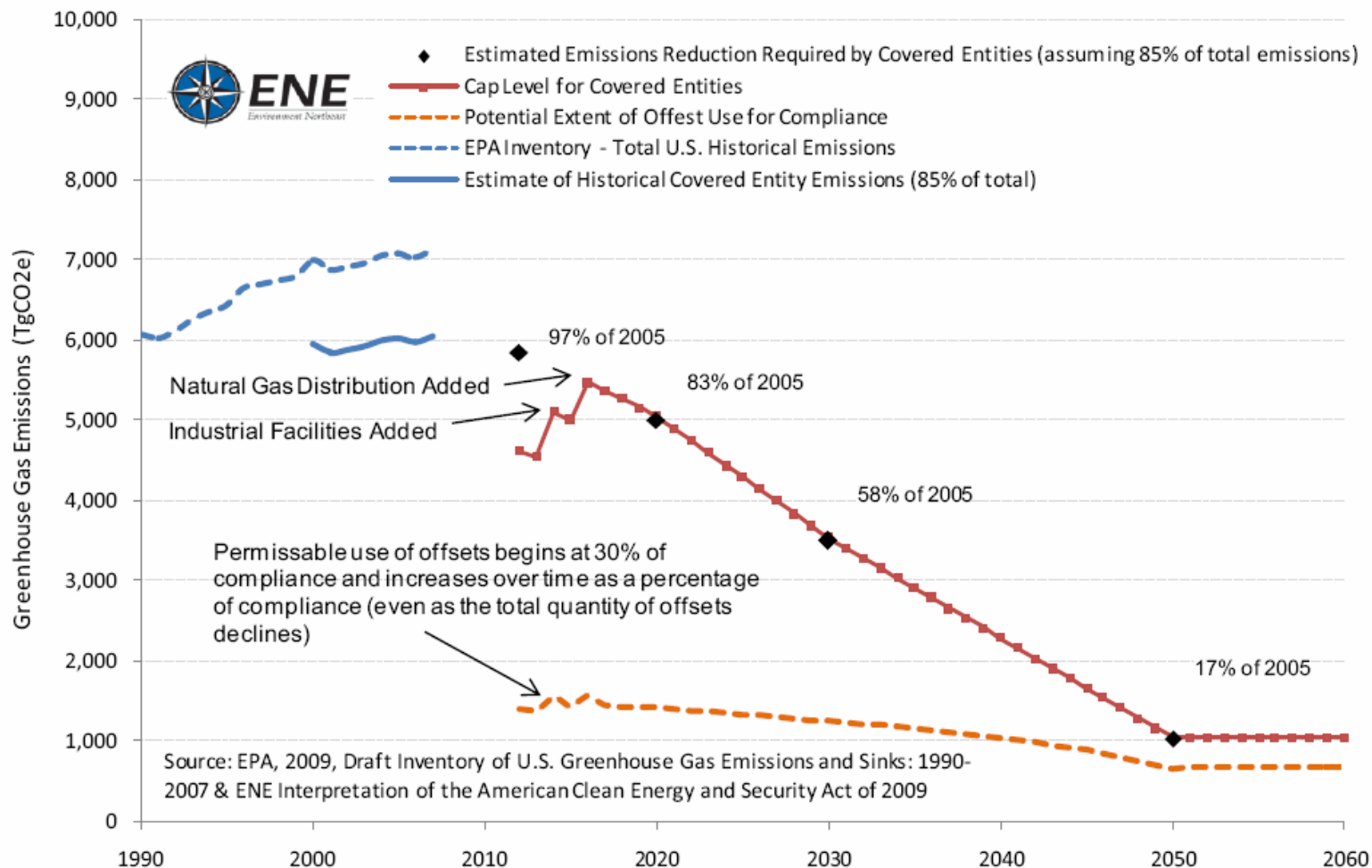
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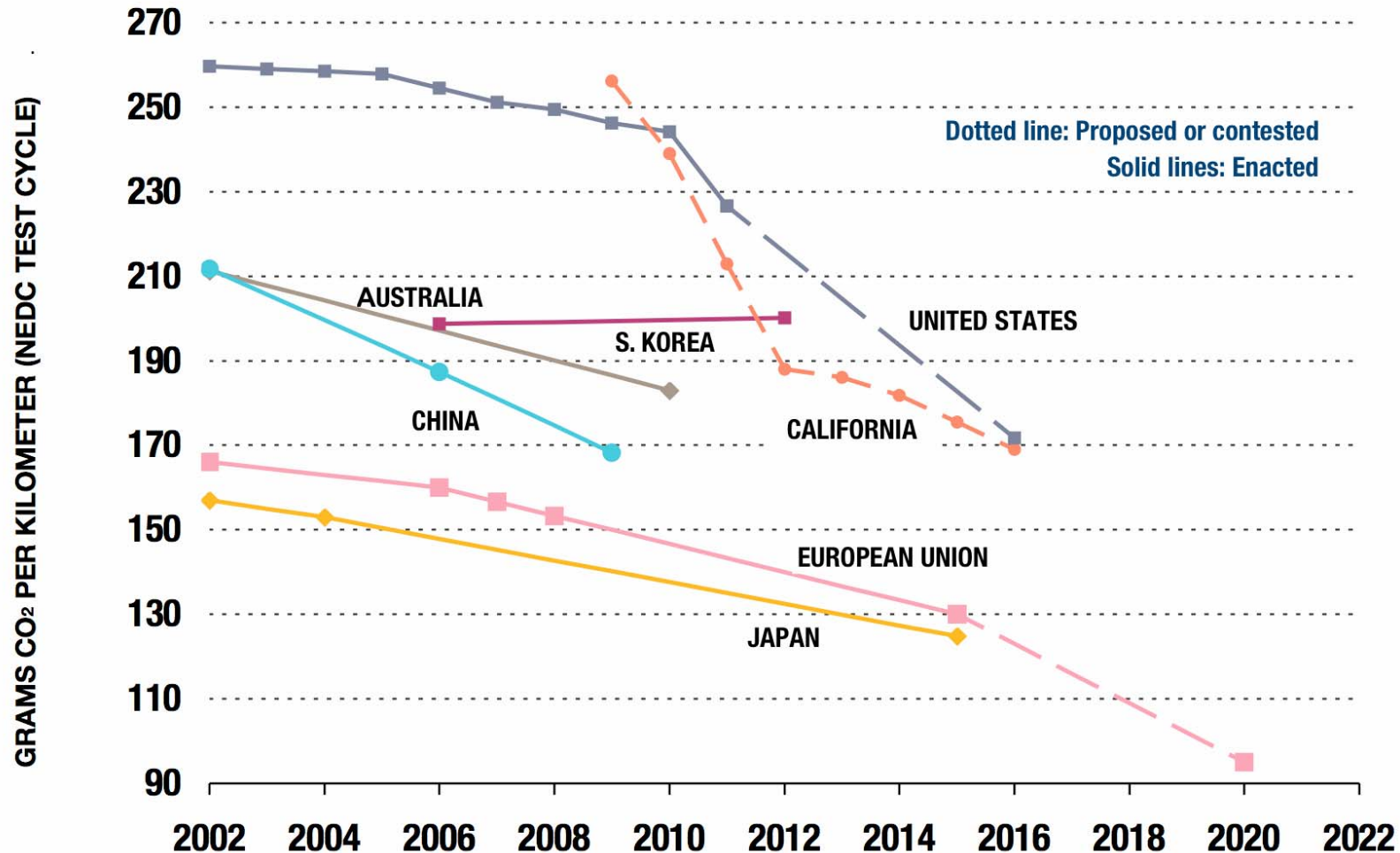
# Supplementary



# ACES GHG Caps and Offsets



# Motor Vehicle CO<sub>2</sub> Emission Standards



Source: *Passenger Vehicle Greenhouse Gas and Fuel Economy Standards: A Global Update*, ICCT. May 2009 update.





