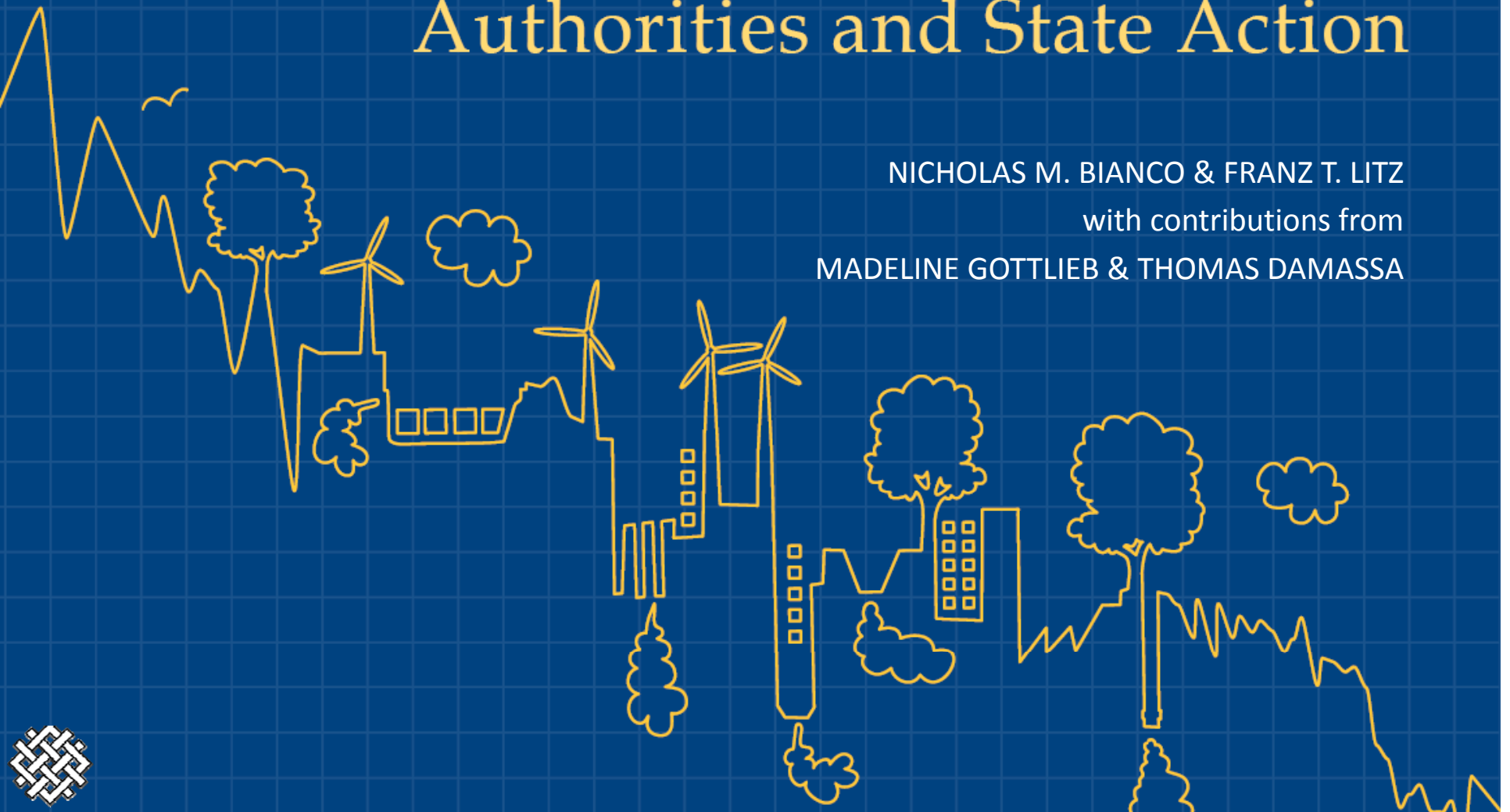


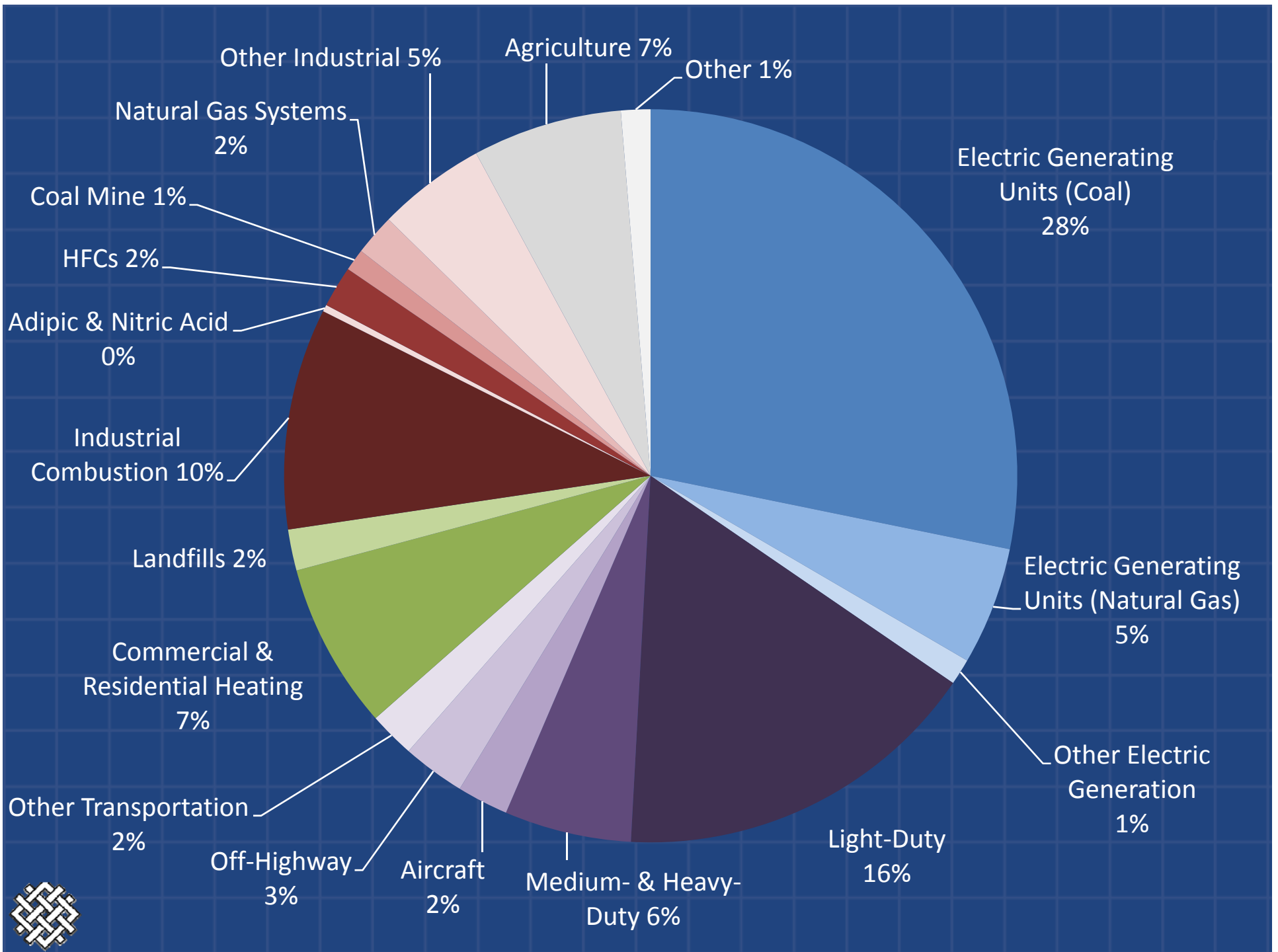
Reducing Greenhouse Gas Emissions in the United States Using Existing Federal Authorities and State Action

NICHOLAS M. BIANCO & FRANZ T. LITZ

with contributions from

MADELINE GOTTLIEB & THOMAS DAMASSA







- PSD/BACT
- New Source Performance Standards
- Vehicle Emissions Standards
- Title VI

- CAFE Standards



- Appliance and Equipment Standards

- Emissions and Operational Standards for Aircraft



FIGURE 1. Projected U.S. Emissions under Different Federal Regulatory Scenarios

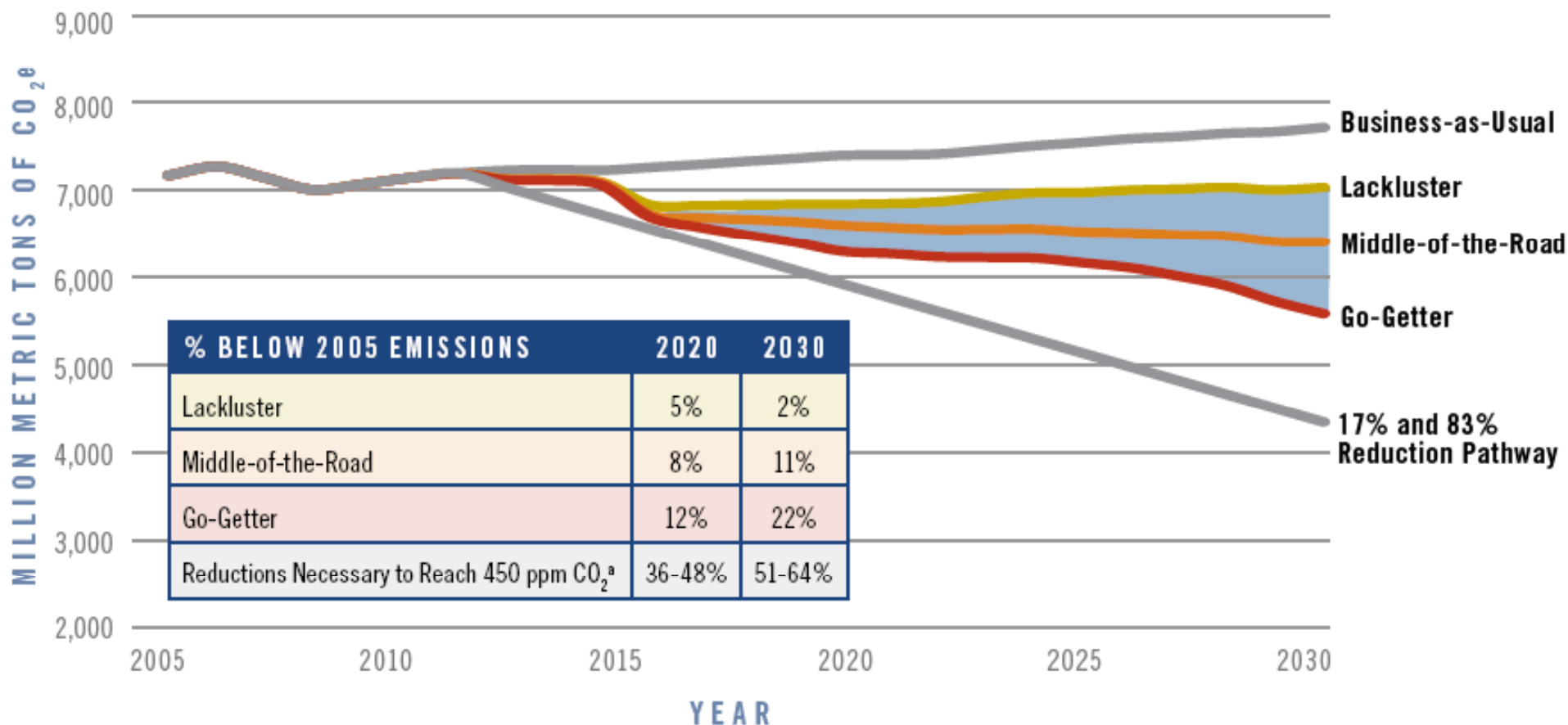
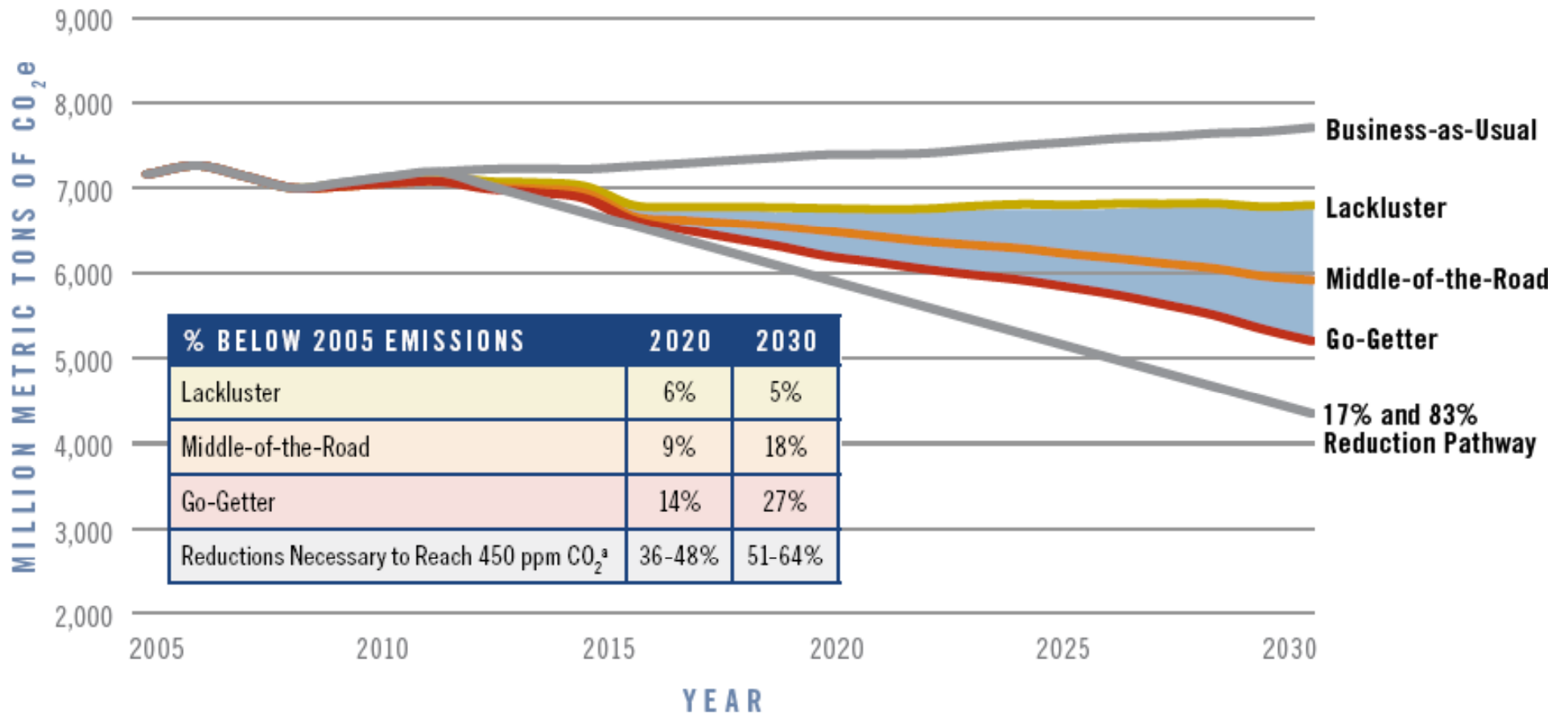
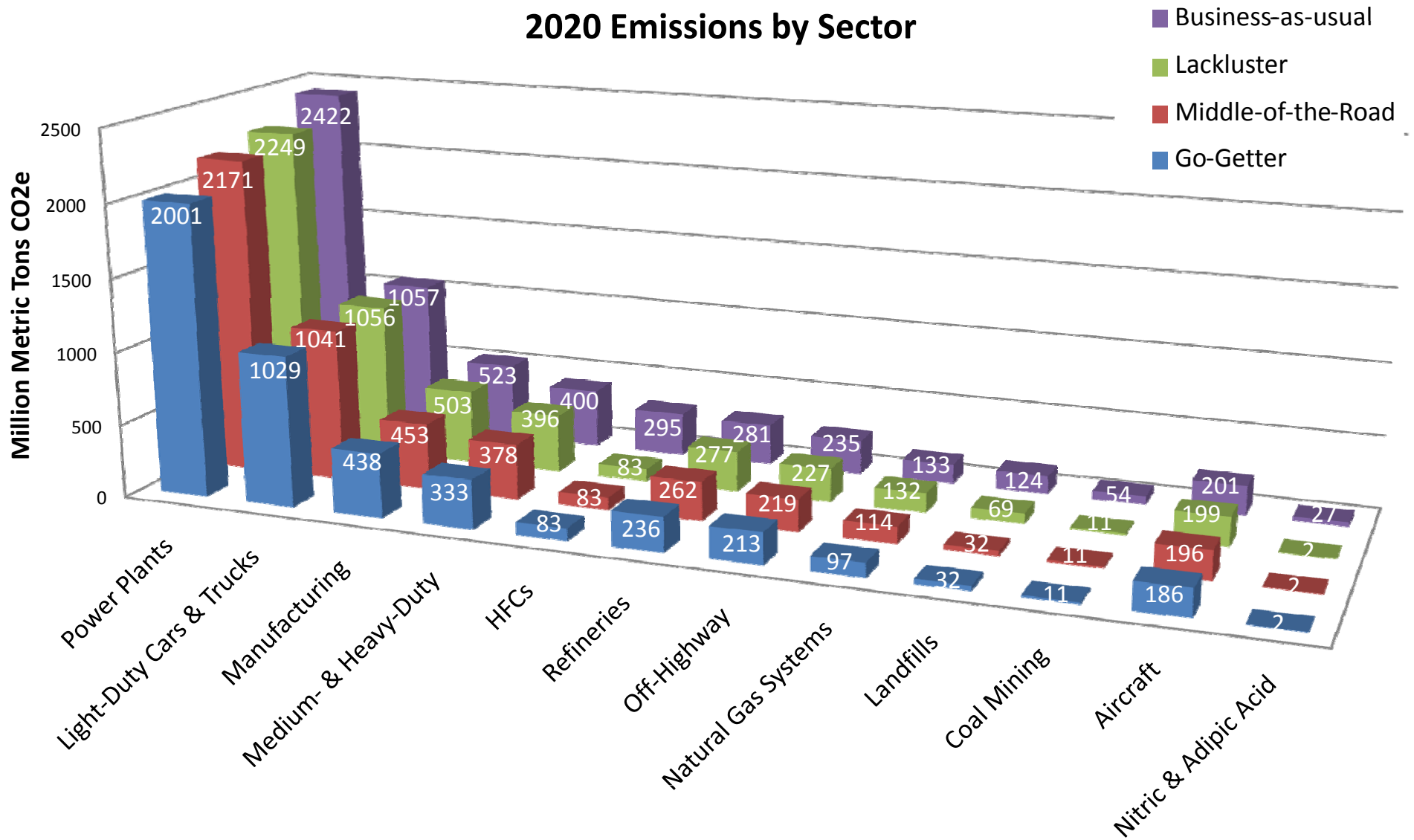


FIGURE 2. Projected U.S. Emissions under Different Federal Regulatory Scenarios and State Scenarios



2020 Emissions by Sector



2030 Emissions by Sector

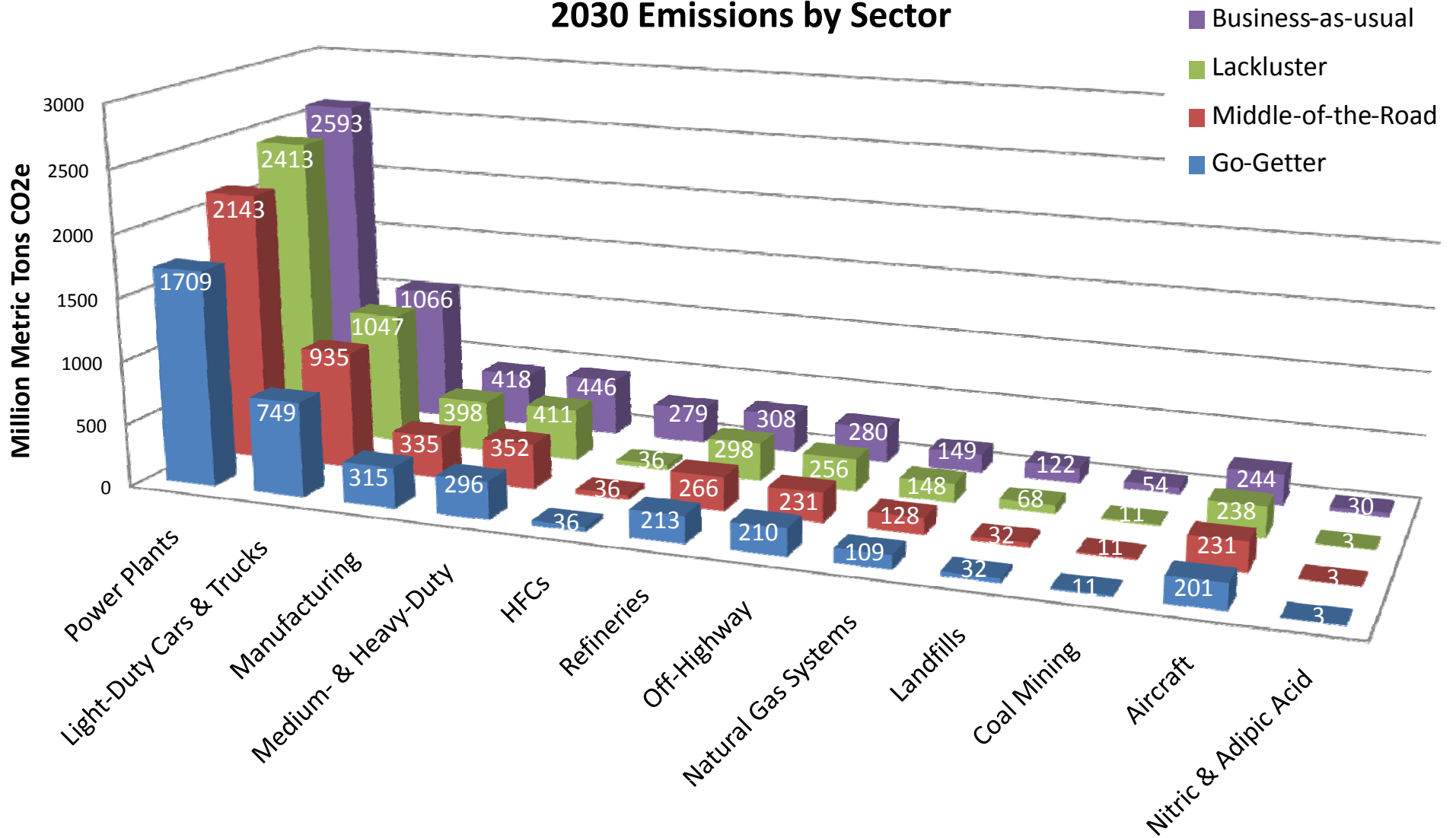


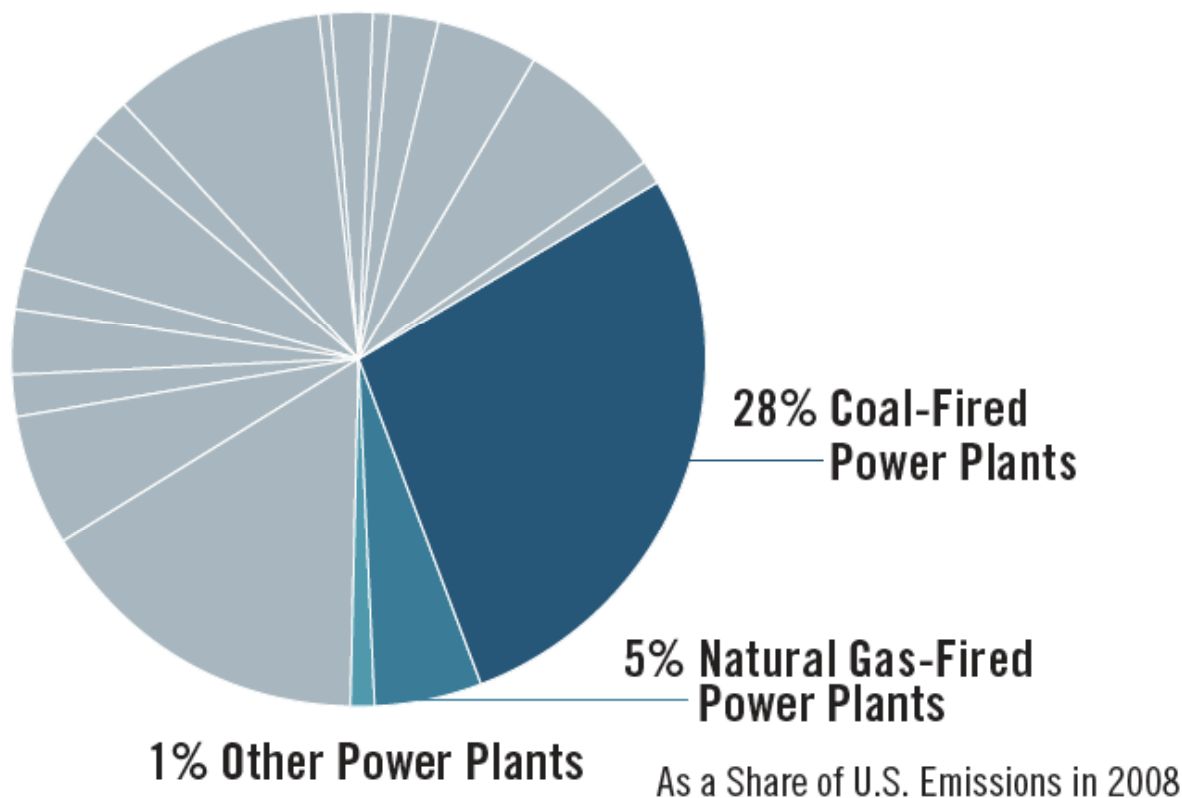
TABLE 1. Reductions from Non-energy Emissions Sources as a Share of Total U.S. Reductions under Different Federal Regulatory Scenarios

% BELOW BASE CASE PROJECTIONS	2020	2030
Lackluster	60%	54%
Middle-of-the-Road	49%	32%
Go-Getter	37%	21%



Example of Approach: Getting Reductions from Power Plants

FIGURE 7. Power Plant Emissions



US Environmental Protection Agency:

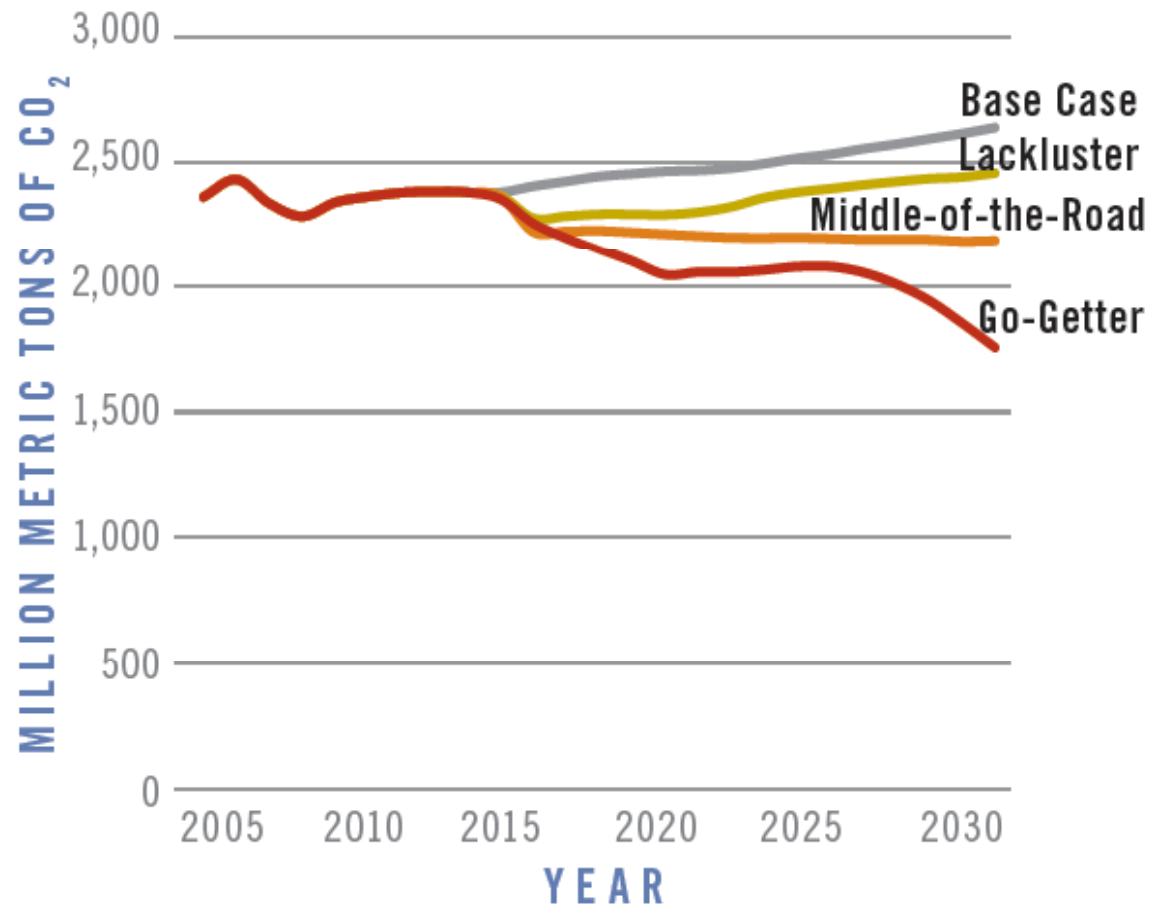
- Pre-construction air permits require Best Available Control Technology (BACT)
- New Source Performance Standards (NSPS)

US Dept of Energy:

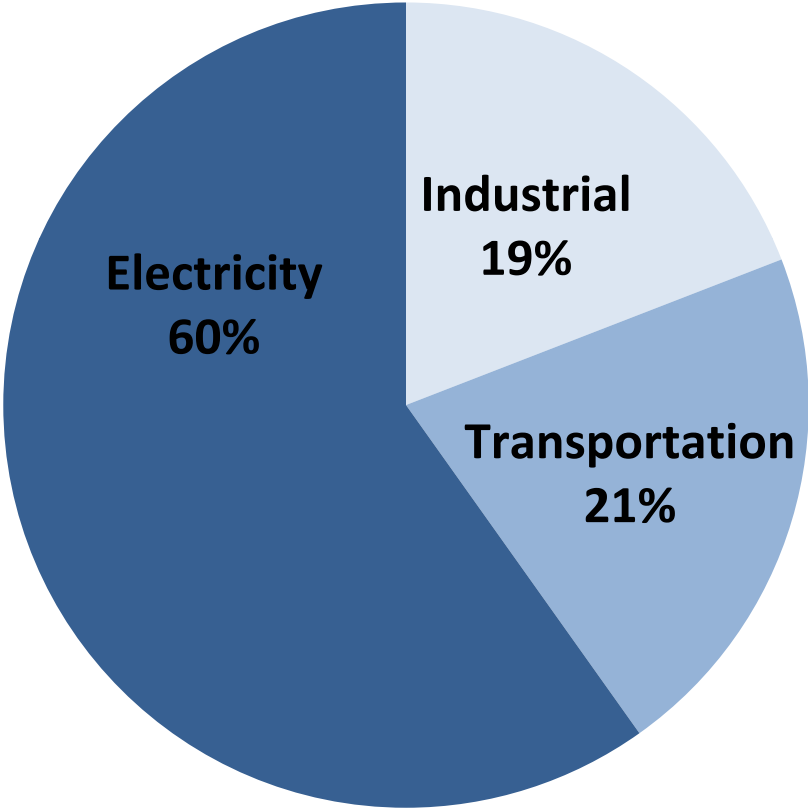
- Appliance efficiency standards
- Equipment efficiency standards



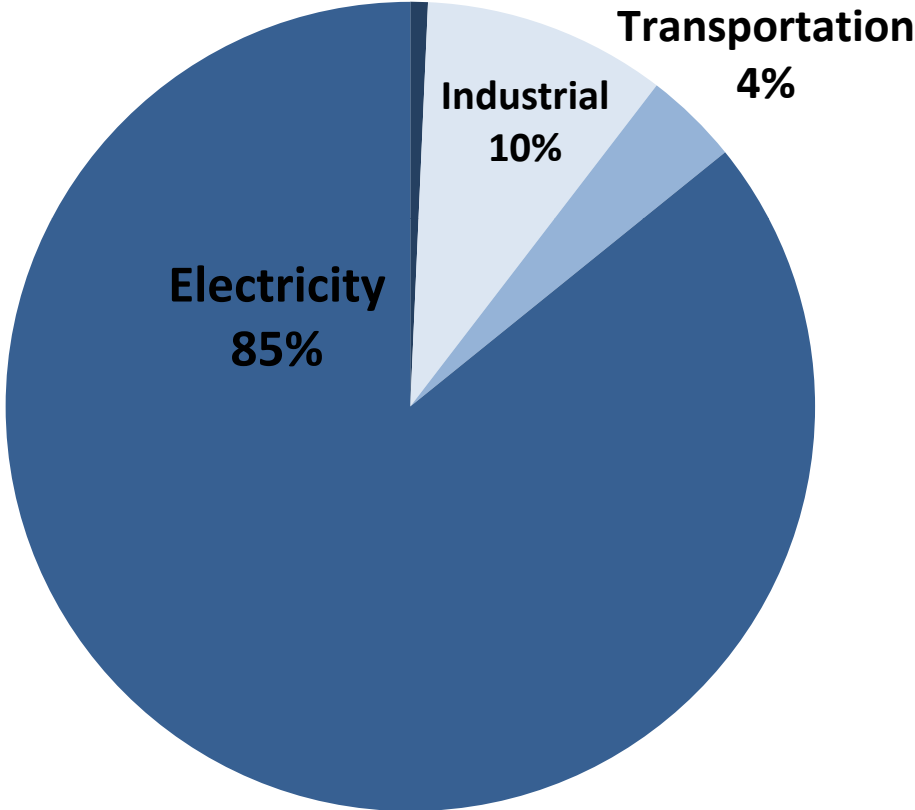
**FIGURE A4. Reductions from Power Plants
Across All Scenarios**



Emissions Reductions Under Waxman-Markey



2020

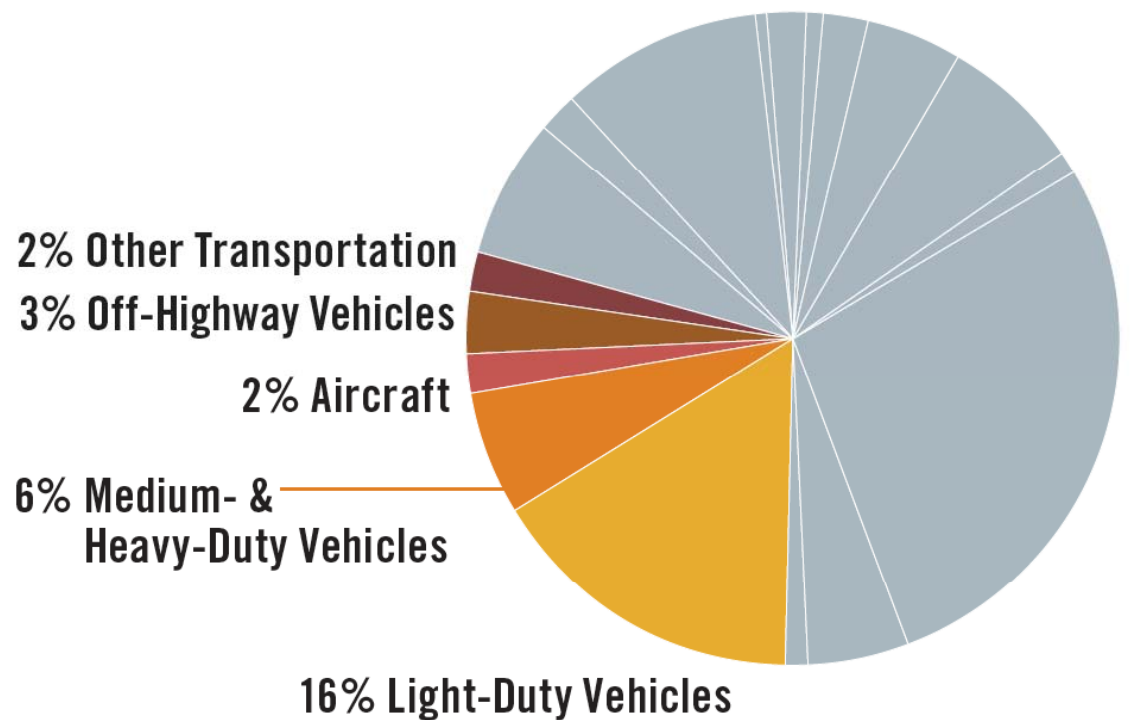


2030



Getting Reductions from Light-Duty Vehicles

FIGURE 9. Transportation Emissions¹⁴



As a Share of U.S. Emissions in 2008

US Environmental Protection Agency:

- Vehicle emissions standards
- Renewable Fuel Standard

US Dept of Transportation:

- CAFE standards
- Federal funding to states



Light-Duty Vehicle Scenarios

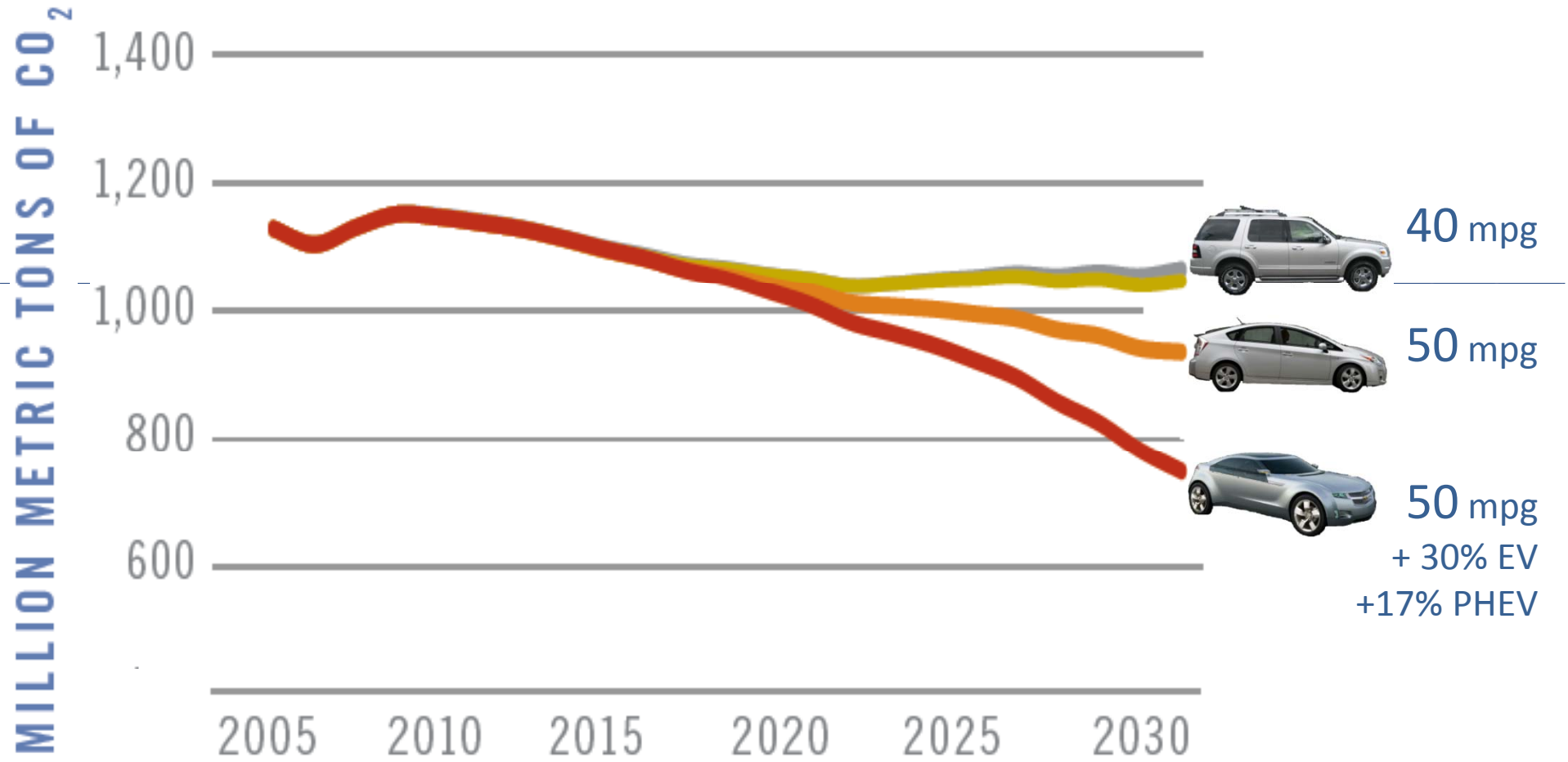
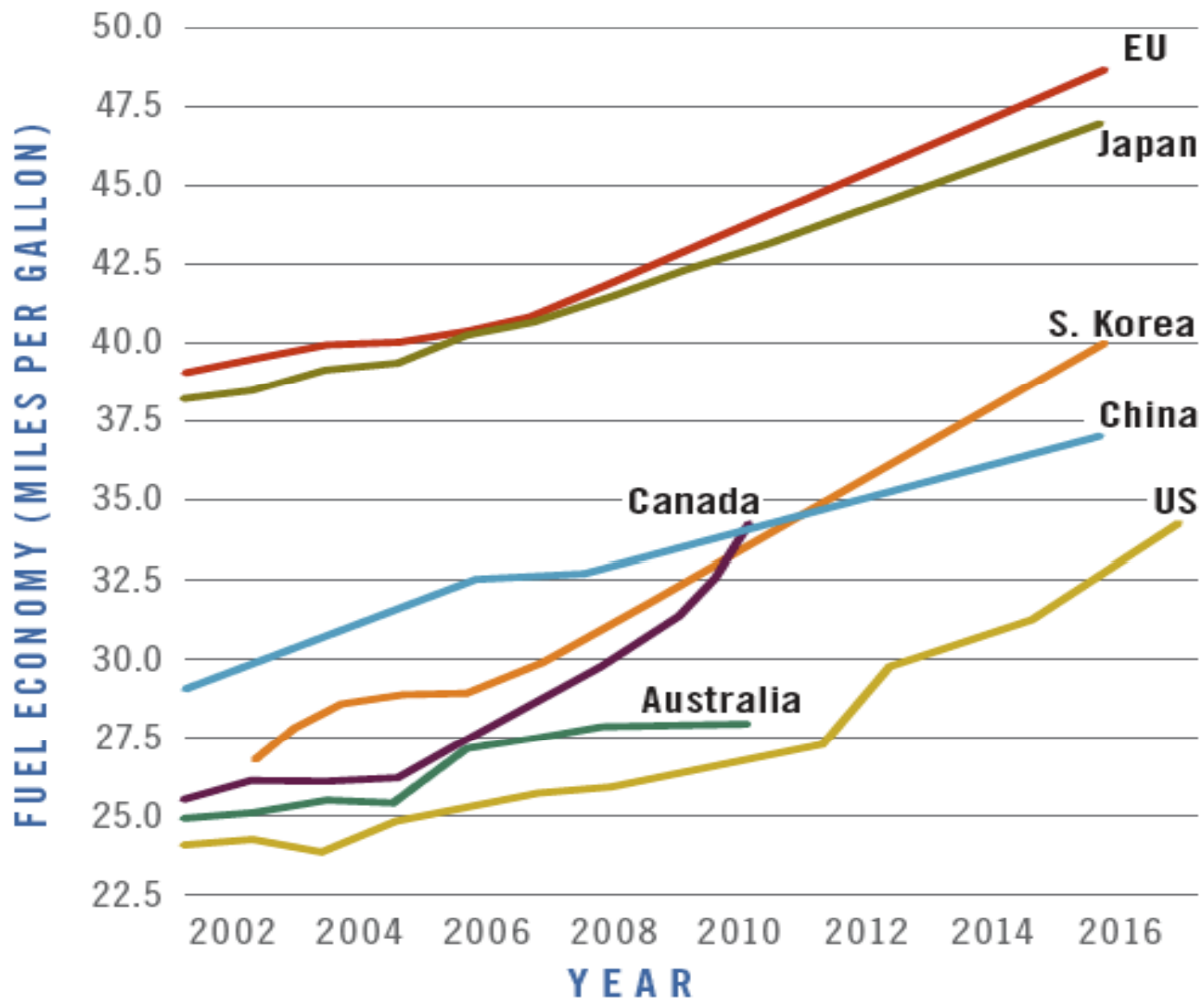


FIGURE A6. Comparison of Actual and Projected Corporate Average Fuel Economy for New Passenger Vehicles



Source: "Data for Fuel Economy Standards and GHG Standards Charts," November, 2009, [http://www.theicct.org/documents/ICCT_PVStd_Nov_09\(Data_Sheet\).xls](http://www.theicct.org/documents/ICCT_PVStd_Nov_09(Data_Sheet).xls).

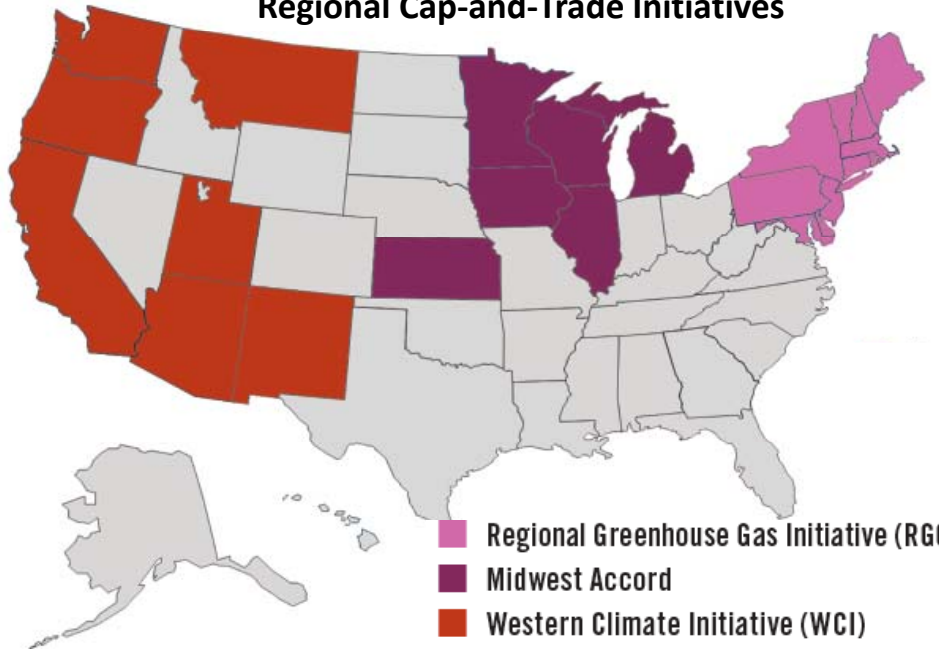
**Lackluster Scenario:
Reduction Targets Set by Legislation**



**Middle-of-the-Road Scenario:
Reduction Targets Set by Executive Order**



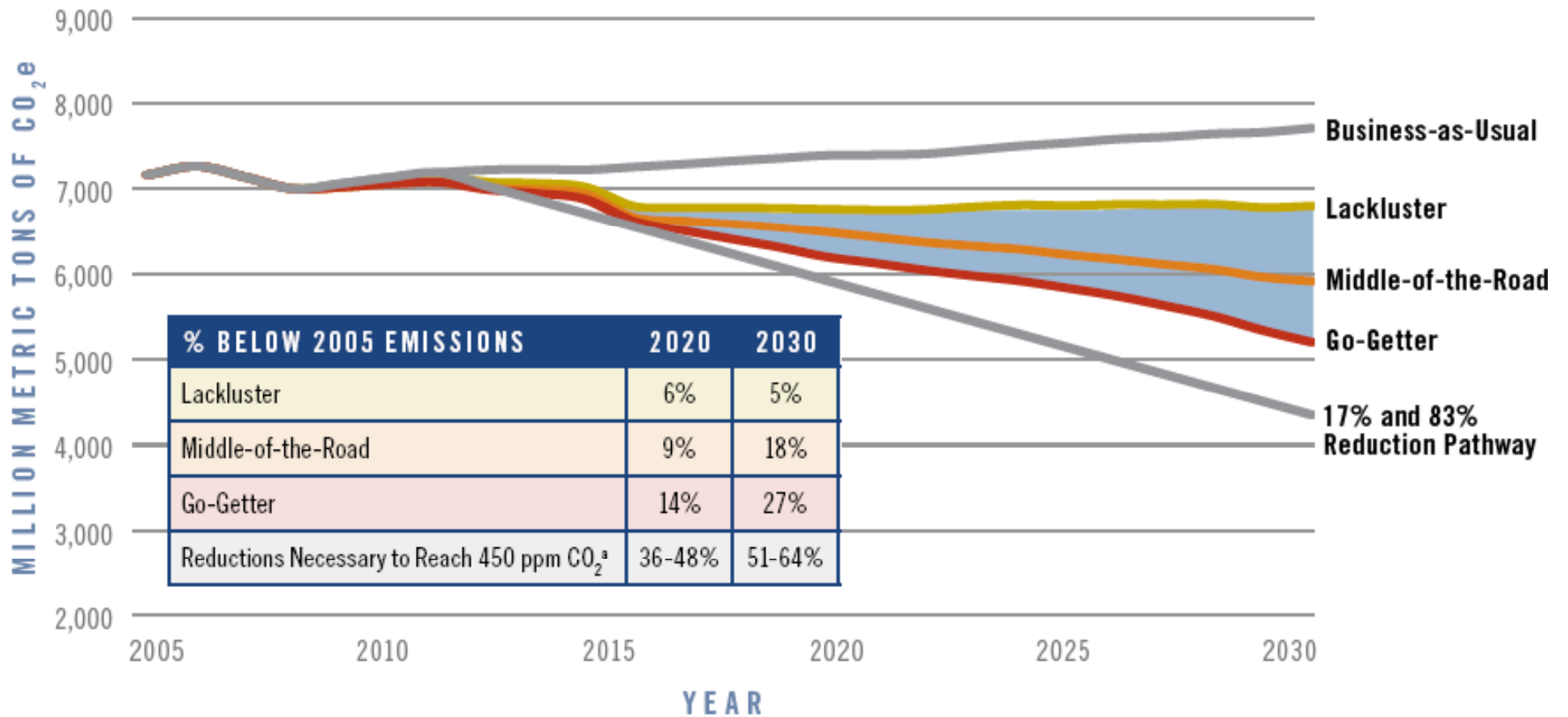
**Go-Getter Scenario:
Regional Cap-and-Trade Initiatives**



- Regional Greenhouse Gas Initiative (RGGI)
- Midwest Accord
- Western Climate Initiative (WCI)



FIGURE 2. Projected U.S. Emissions under Different Federal Regulatory Scenarios and State Scenarios



Thank you.

