

Outline

- 1. A Relevant Example of Science and Policy**
- 2. The Maine Climate Council**

Ivan J. Fernandez

School of Forest Resources

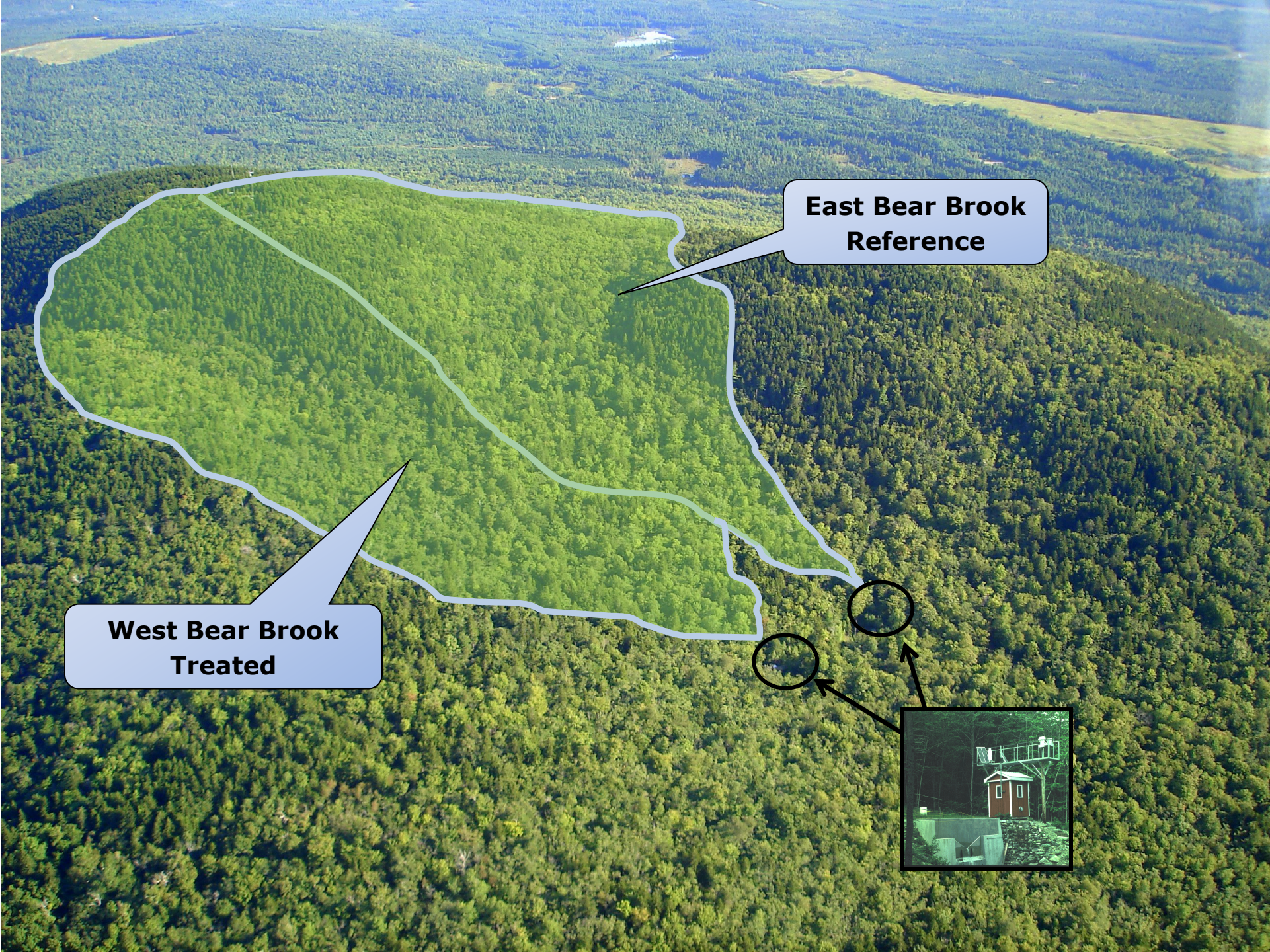
Climate Change Institute

School of Food and Agriculture

The Bear Brook Watershed in Maine



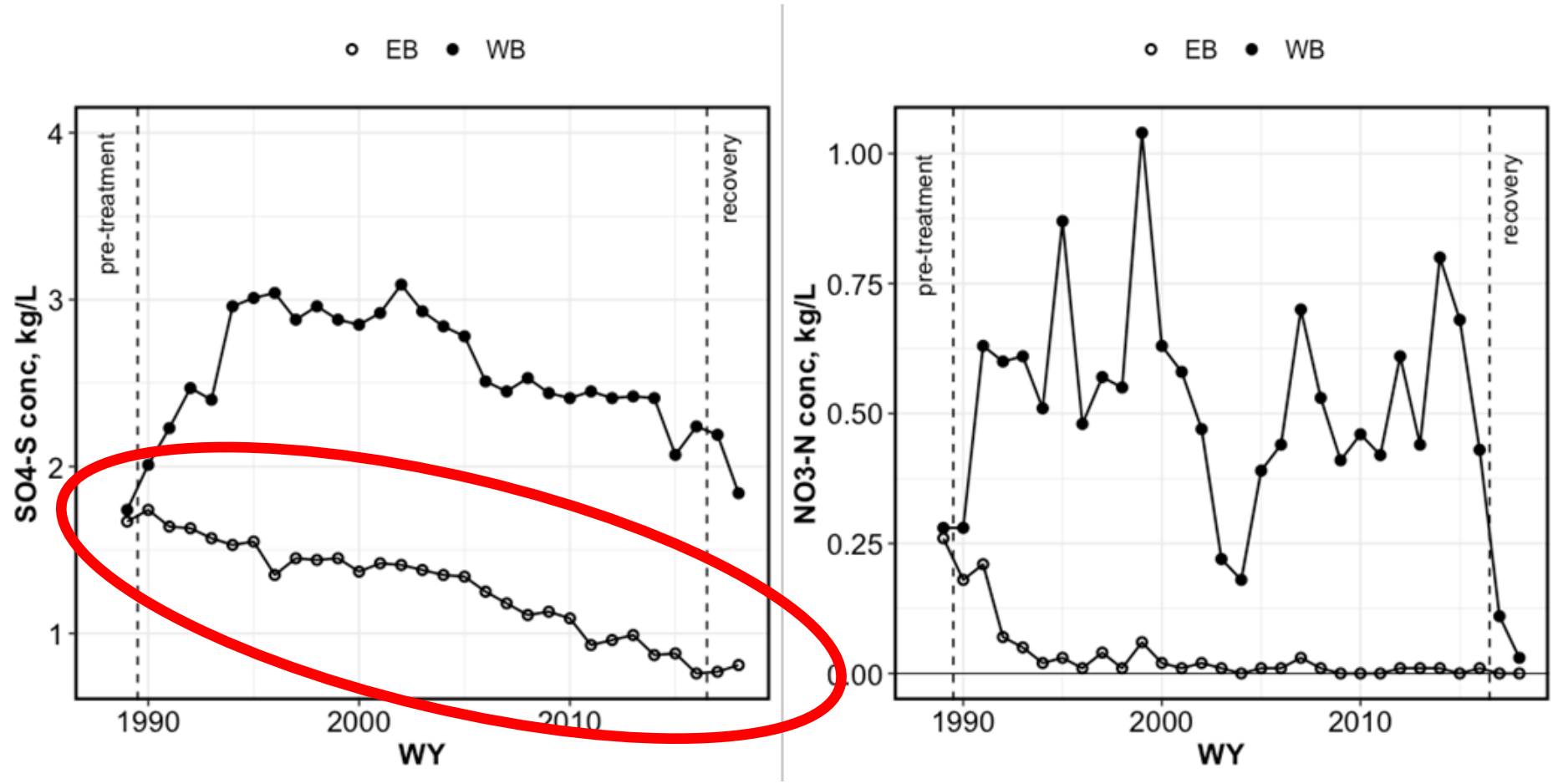
A multi-decadal whole-watershed experimental manipulation to study ecosystem response to elevated atmospheric deposition of sulfur and nitrogen (aka 'acid rain').



**East Bear Brook
Reference**

**West Bear Brook
Treated**





Volume weighted stream concentrations of sulfate and nitrate.

The Benefits and Costs of the Clean Air Act from 1990 to 2020



U.S. Environmental Protection Agency
Office of Air and Radiation
March 2011

SUMMARY REPORT

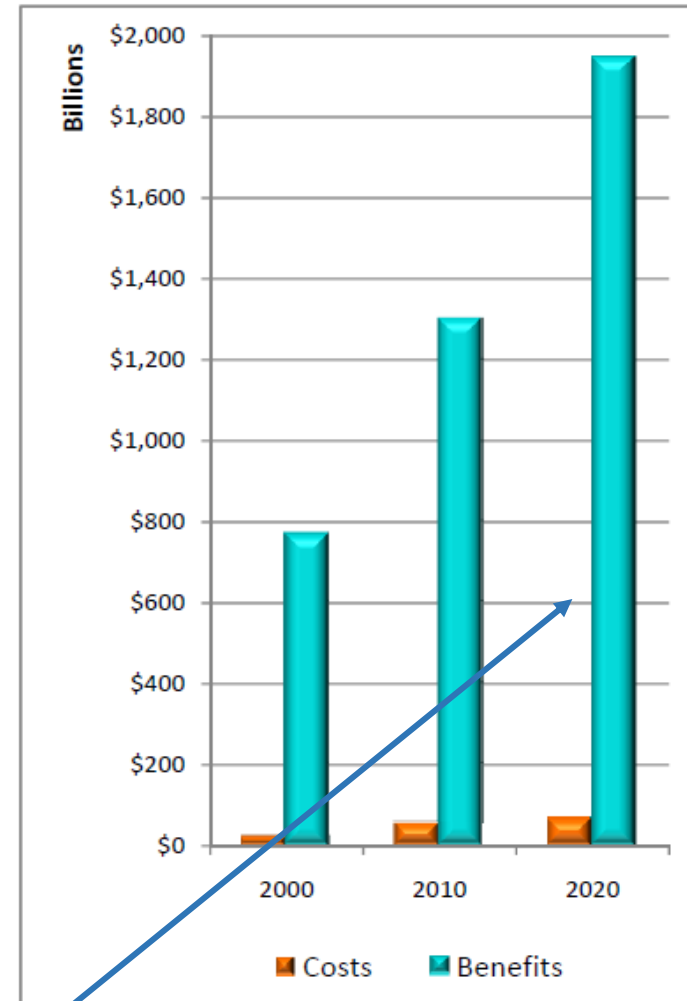


Exhibit 1. Primary Central Estimates of direct benefits and direct costs for the 2000, 2010, and 2020 study target years. (In billions of 2006 dollars). The graph shows the extent to which benefits exceed costs throughout the study period.

Benefit/Cost Ratio in 2020 \approx 30/1 (range 4/1 to 88/1)



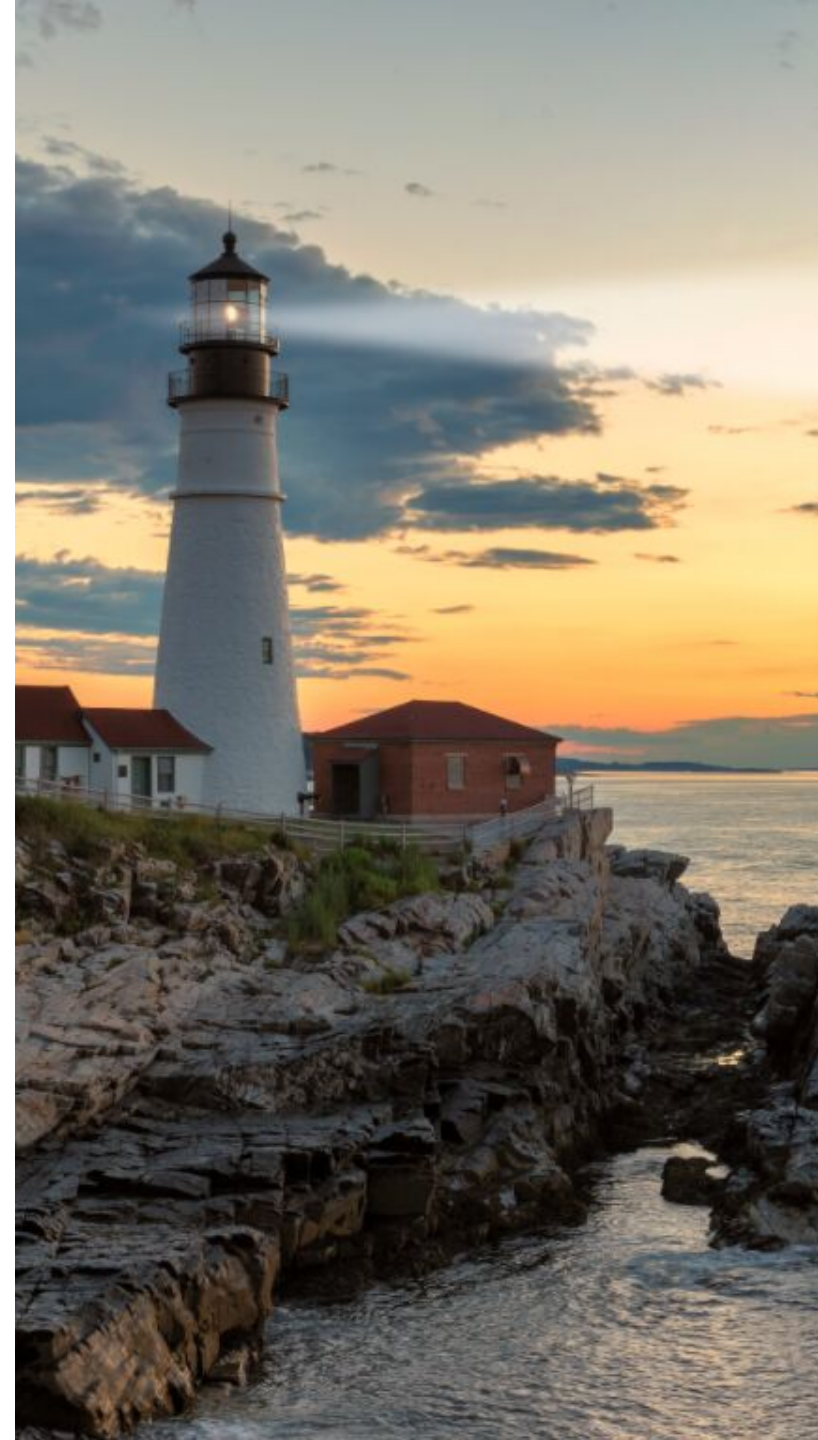
MAINE

CLIMATE COUNCIL

Council Co-Chairs:

Director Hannah Pingree,
Governor's Office of Policy Innovation
and the Future

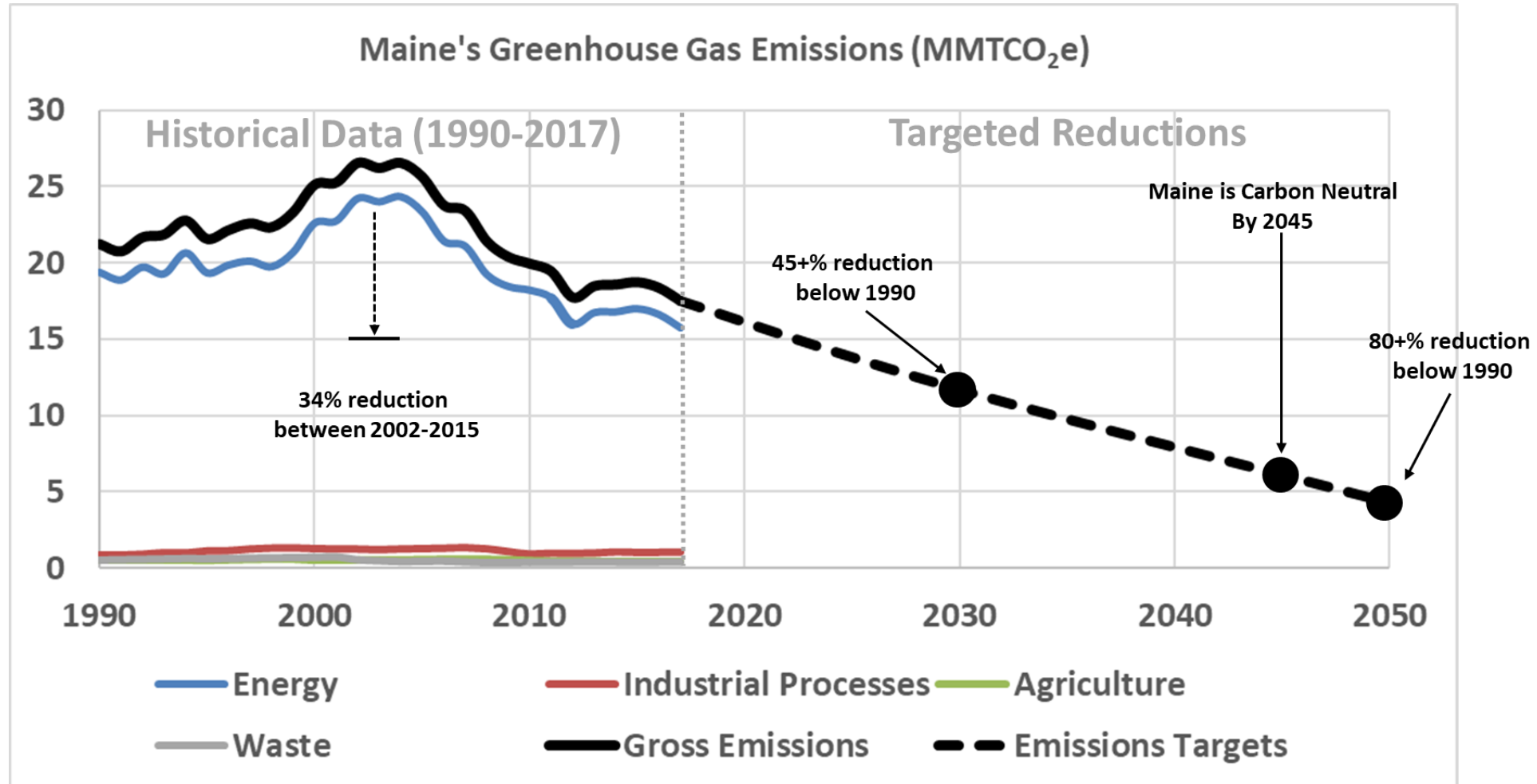
Commissioner Jerry Reid, Department
of Environmental Protection



MAINE CLIMATE COUNCIL (LD 1679)

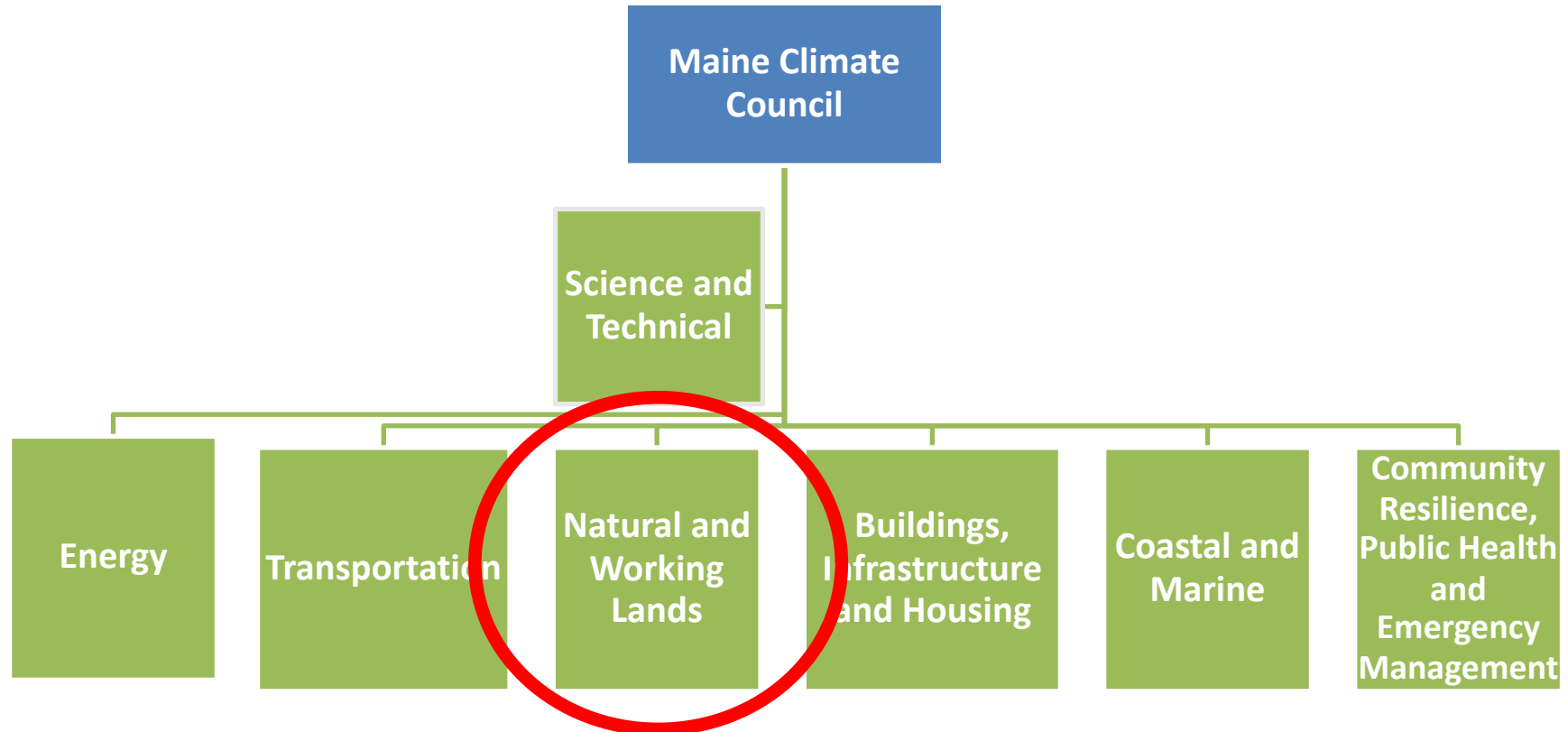
Governor's Bill, sponsored by Senator Woodsome (R)

- Sets reductions in law: 45% reduction in greenhouse gas emissions by 2030, 80% by 2050
- Creates Maine Climate Council to advise the Governor and Legislature on ways to mitigate the causes of, prepare for and adapt to the consequences of climate change
- State Climate Action Plan update due by December 1, 2020



MAINE CLIMATE COUNCIL

ORGANIZATION CHART





Natural and Working Lands Working Group

- **Forests**
- **Natural Lands**
- **Agriculture**

Timeline

- Kickoff – Sept. 2019
 - Official launch of work
- Second MCC Mtg – Jan. 2020
 - Initial Science Presentation
- Third MCC Mtg – June 2020
 - Initial WG Recommendations
- Fourth MCC Mtg – Sept. 2020
 - MCC progress
- Integrated Maine Climate Action Plan – Dec. 2020

...and every four years thereafter.

