



Energy & Climate Change: The Dow Commitment



Rich Wells
Vice President of Energy
The Dow Chemical
Company



- Diversified chemical company, harnessing the power of science and technology to improve living daily
- Founded in Midland, Michigan in **1897**
- Supplies more than **3,300 products** to customers in **175 countries**
- Annual sales of **\$54 billion**
- **46,000 employees** worldwide
- Committed to **Sustainability**



Creating Products from Energy & Feedstocks



Feedstock
Ethane, Propane
Butane, Naphtha

Steam

600 trillion Btu/yr

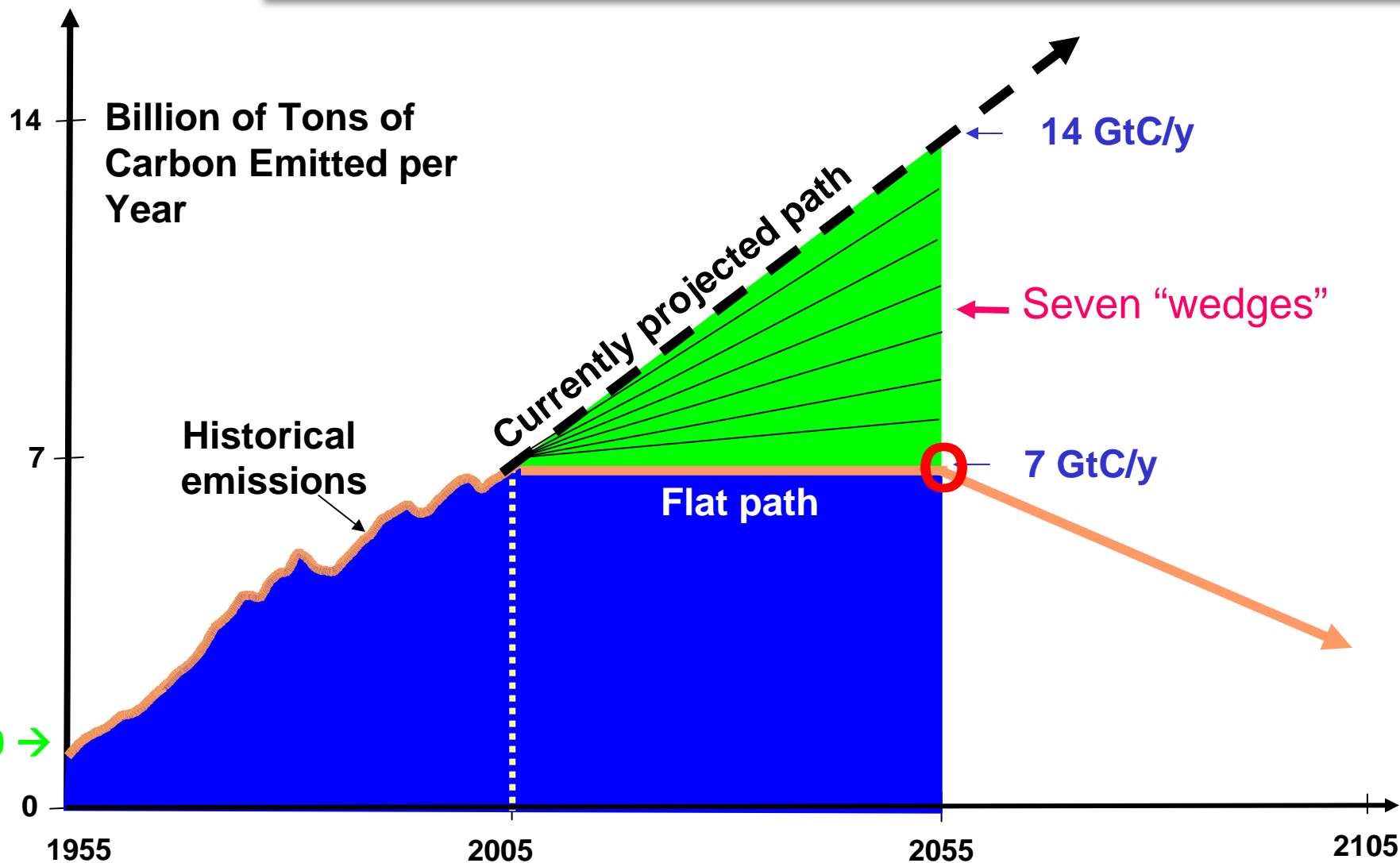
Power

Oil & Gas



Proprietary Classification

Wedge Stabilization Model



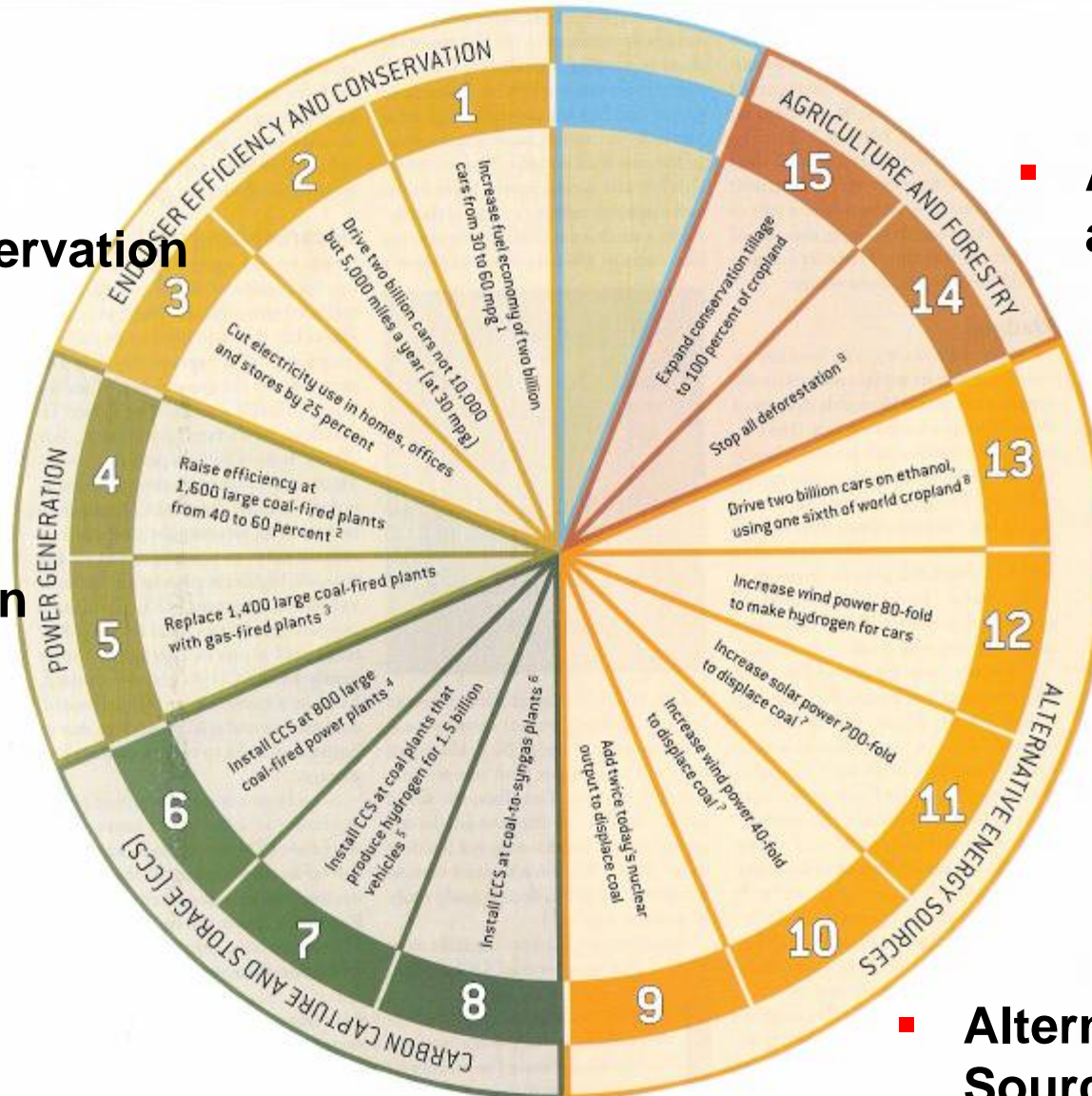
- End-User Efficiency and Conservation

- Power Generation

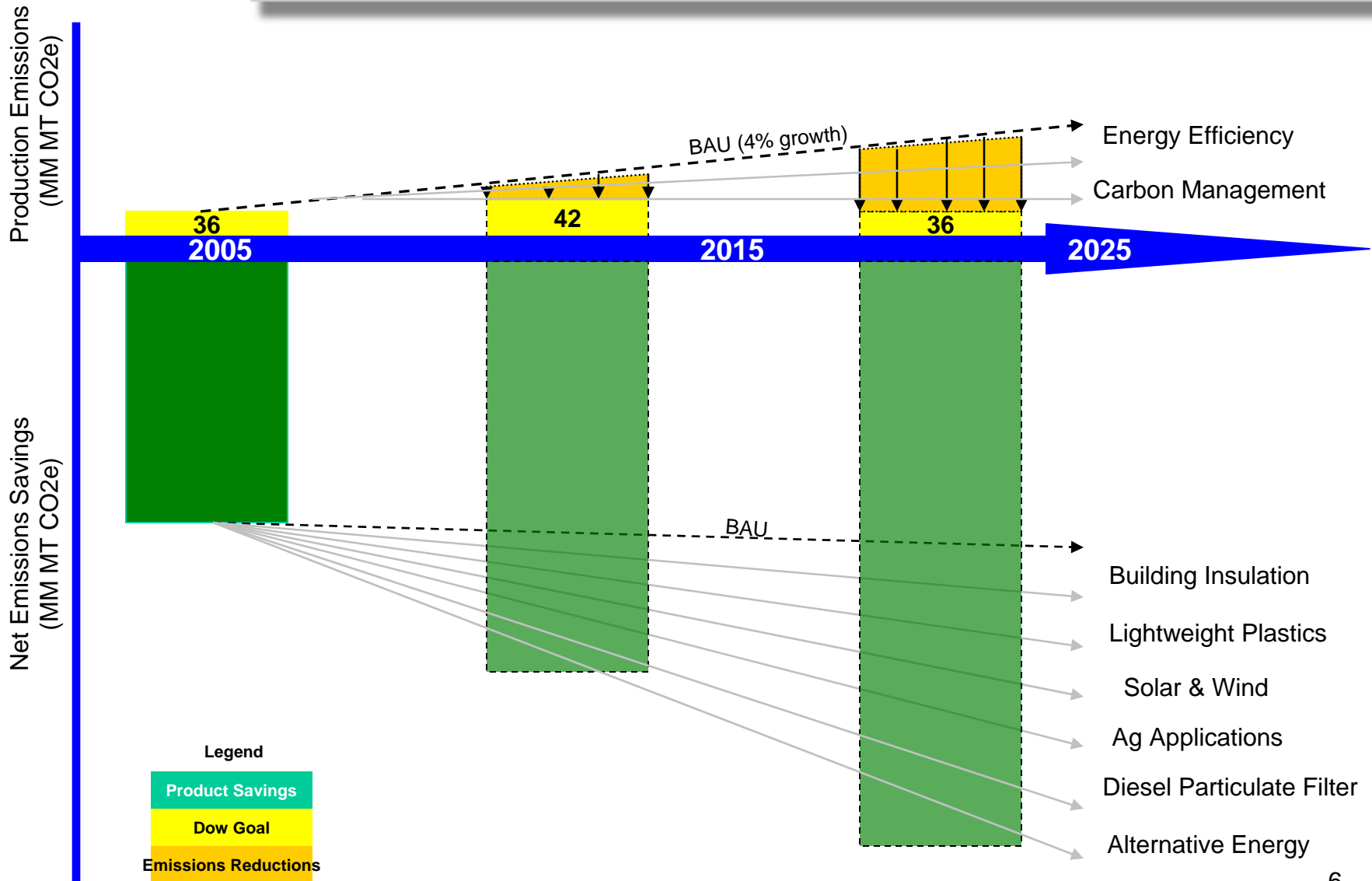
- Carbon Capture and Storage

- Agriculture and Forestry

- Alternative Energy Sources

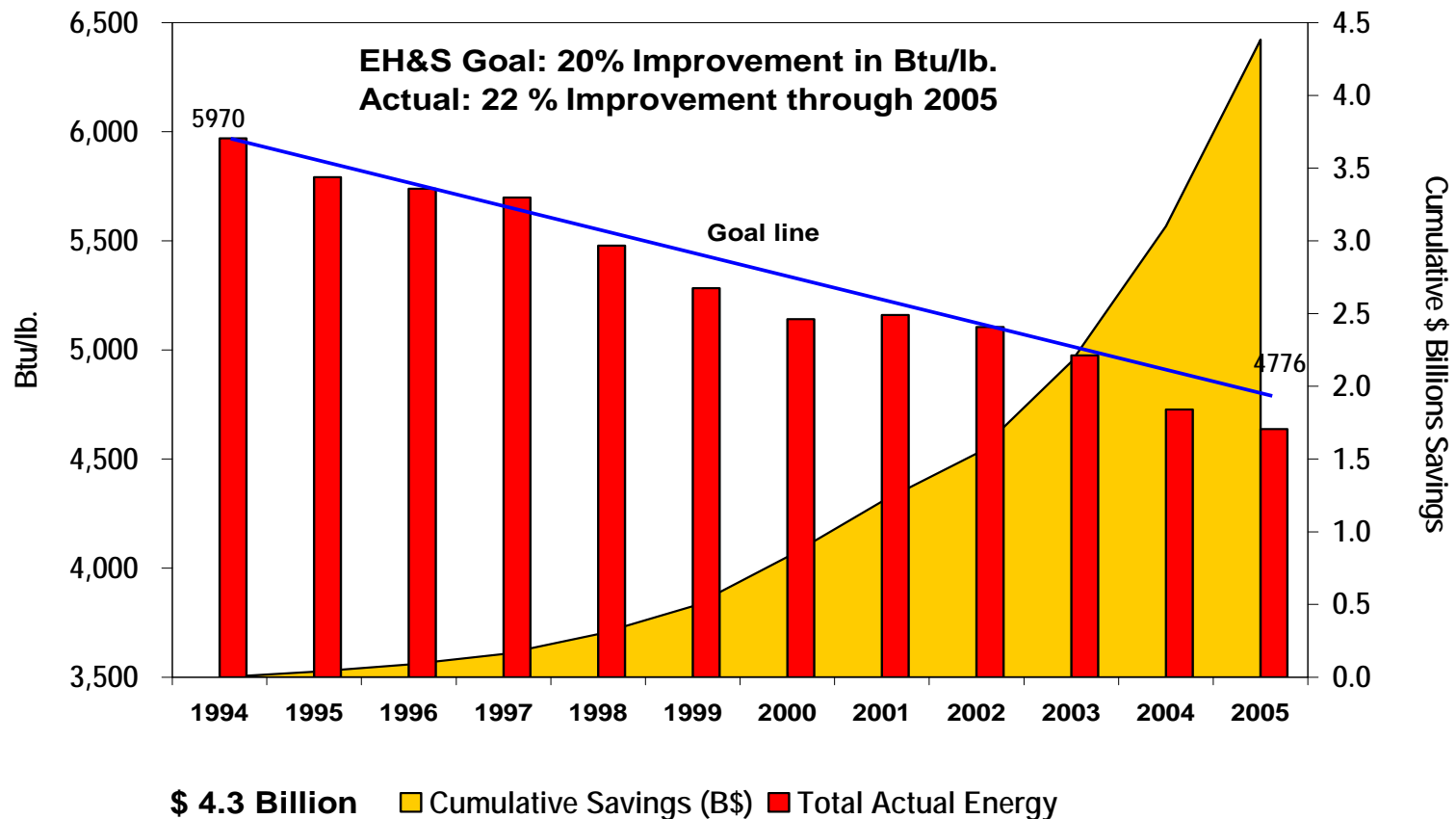


Dow Solutions to Address Climate Change

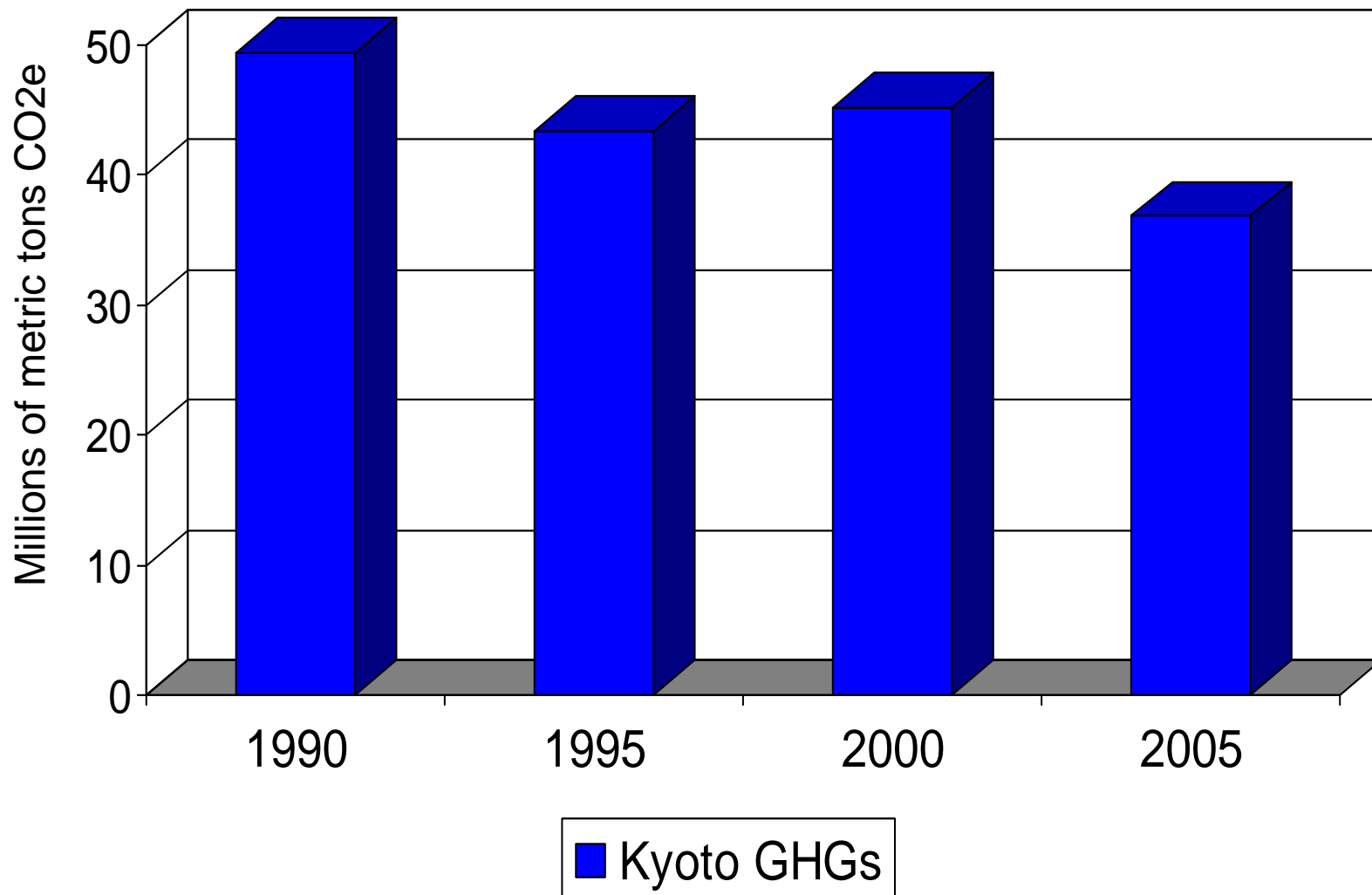




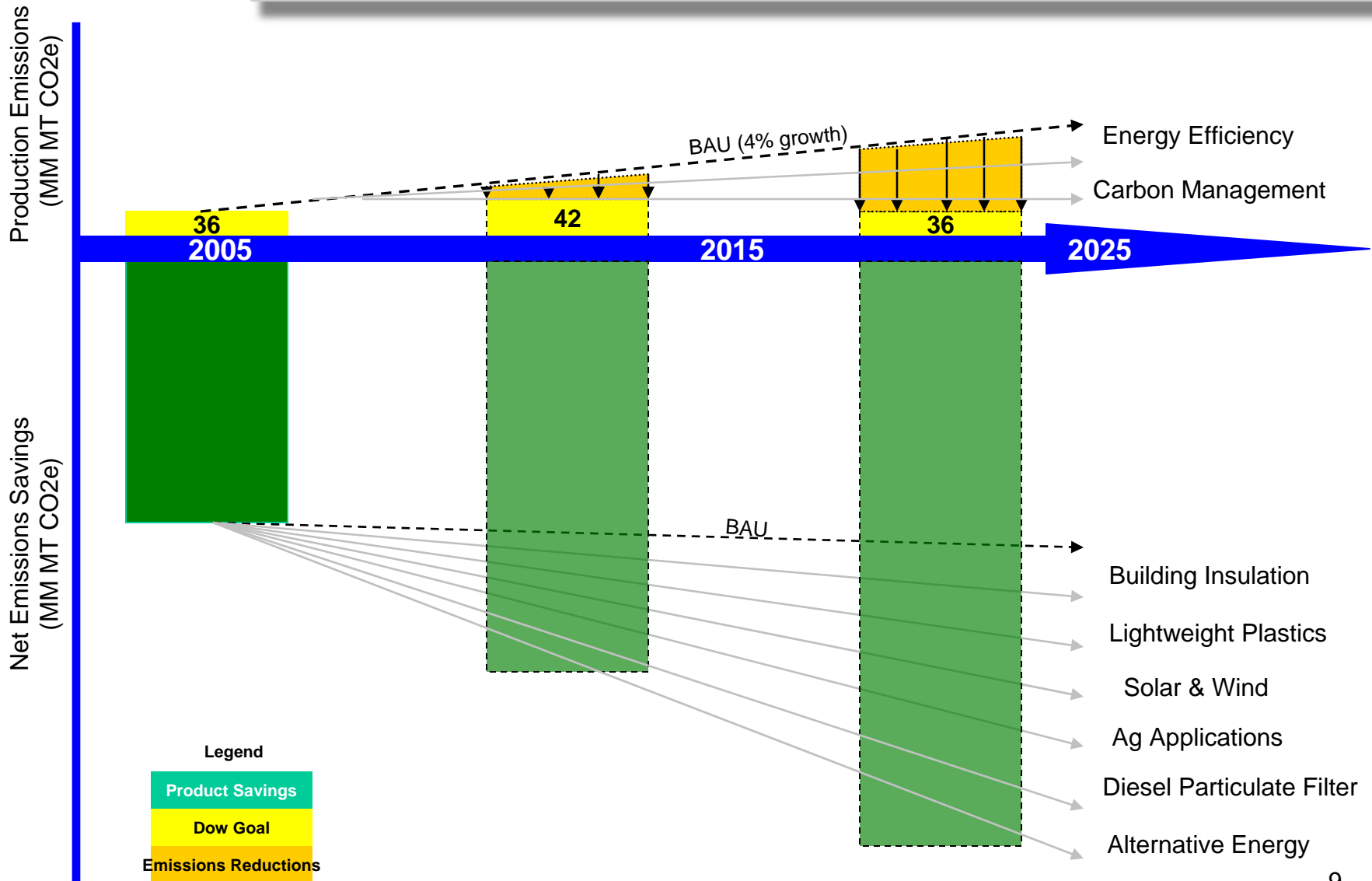
- Energy Efficiency Improvements



Reducing Dow's GHG Emissions



Dow Solutions to Address Climate Change

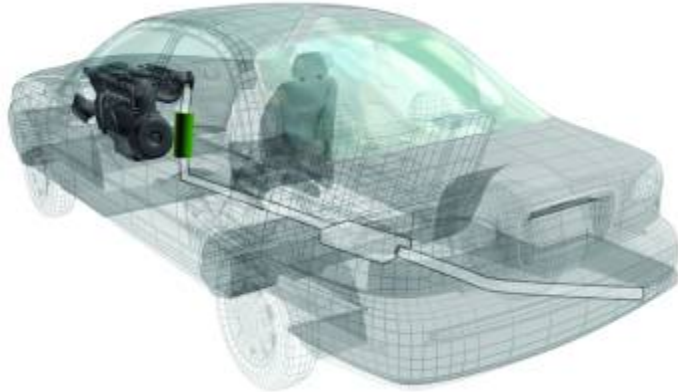


Wedge One

Increase fuel economy of two billion cars from 30 to 60 mpg

Dow Contributes Via:

- Lightweight plastics in vehicles
- Diesel Particulate Filter



Wedge Three

Cut electricity use in homes, offices and stores by 25 percent

Dow Contributes Via:

- Dow Styrofoam as building insulation: saves hundreds of millions mt of CO2 emissions per year



Wedge 11

Increase solar power 700-fold

Dow Contributes Via:

- Integrated photovoltaic cell for building applications
- Solar farm at Dow Pittsburg, California facility
- Nevada One solar plant



Photo courtesy of Power Light Corporation

Wedge 13

Using ethanol

Dow Contributes Via:

- World-scale facility to produce sugar cane to ethanol to ethylene



