

Acid Rain Tree Damage

Aluminum Affecting Roots

Mount Mitchel NC

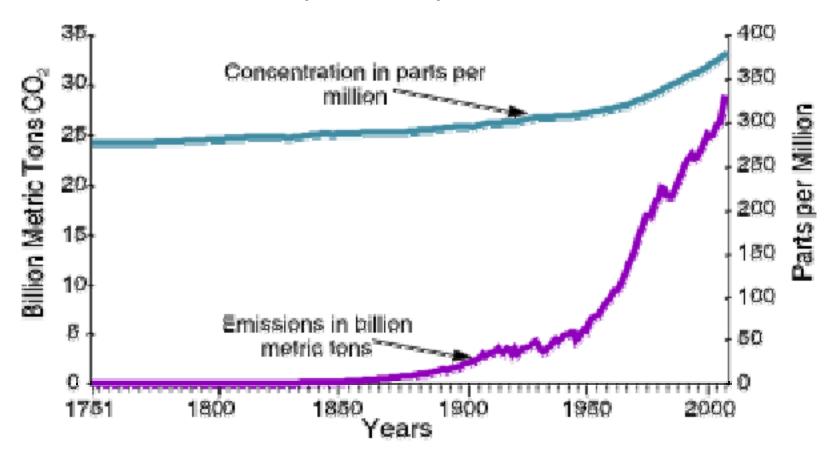


Global Warming & Climate Change



Carbon Dioxide Emissions and Carbon Dioxide Concentrations

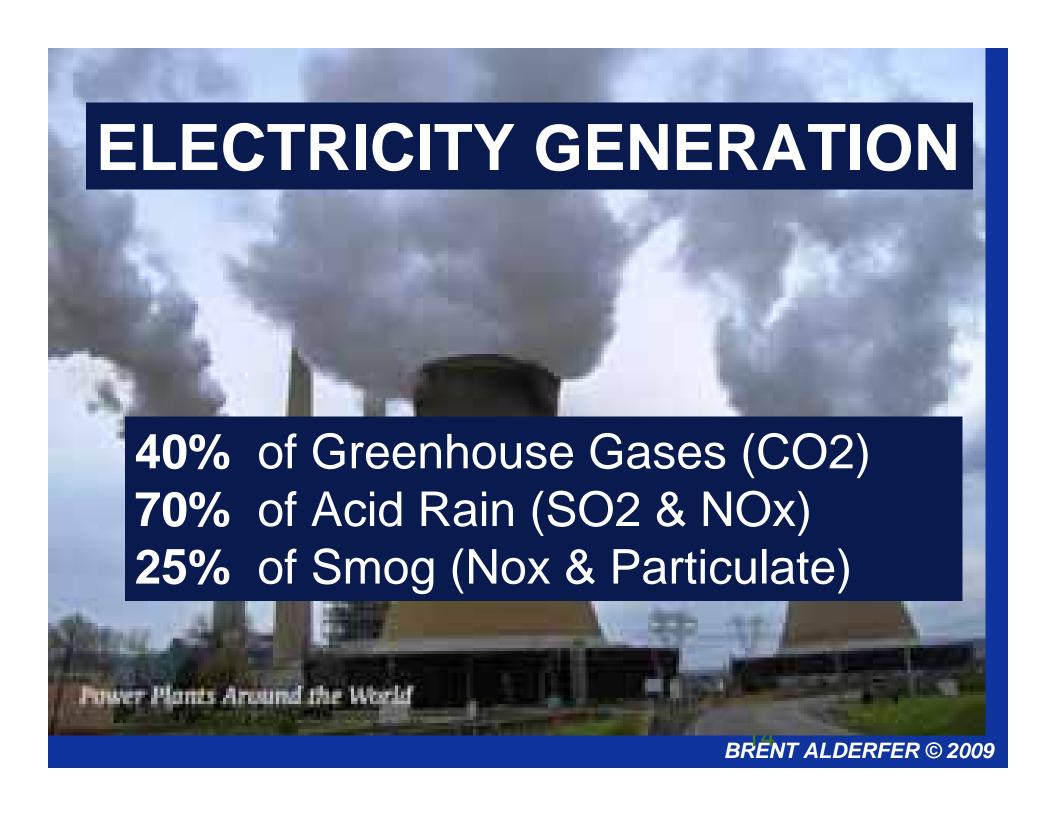
(1751-2004)



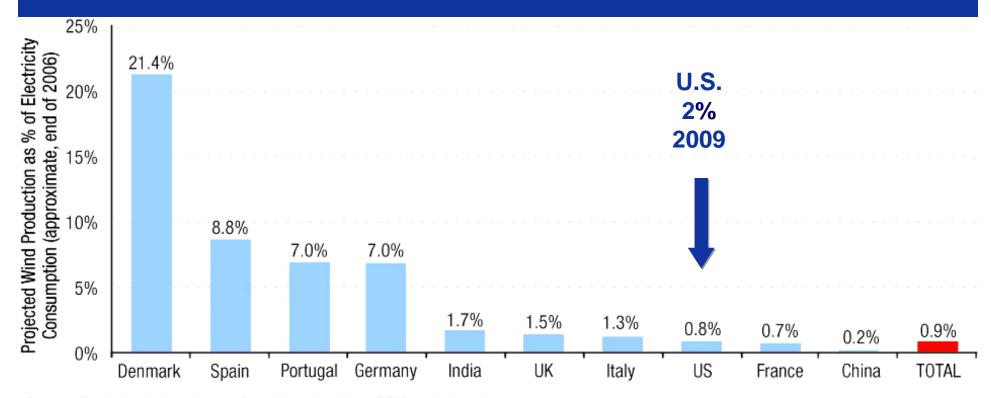
Source: Oak Ridge National Laboratory, Carbon Dioxide Information. Analysis Center.

U.S. ENERGY CONSUMPTION (ALL SECTORS)



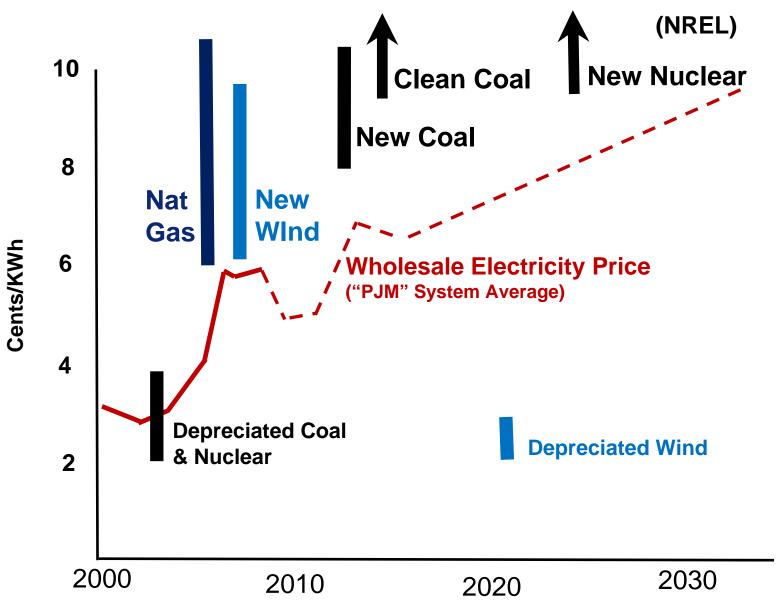


Wind Energy Production As a Percentage of Electricity Consumption



Source: Berkeley Lab estimates based on data from BTM and elsewhere.

Wholesale Generation Cost



THE GOAL FOR WIND ENERGY (U.S.)

"Areas with good wind resources have the potential to supply up to 20% of the electricity consumption of the United

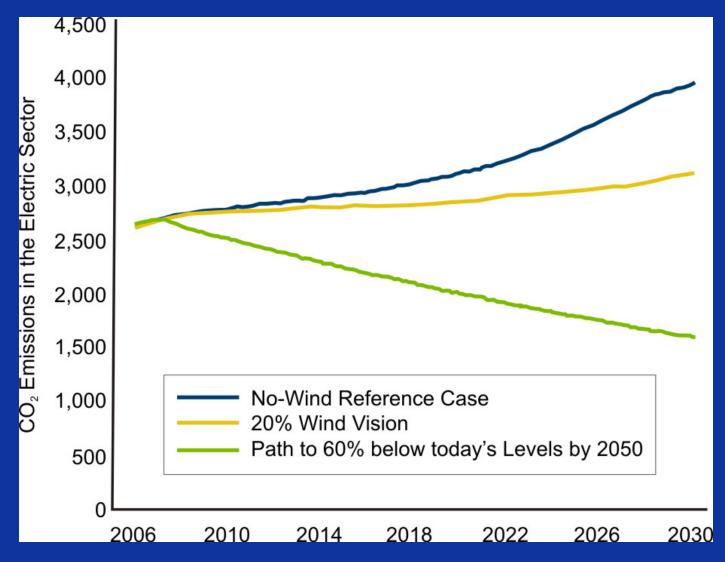
States."

Advanced Energy Initiative Department of Energy

"Wind energy will provide 20% of U.S. electricity needs by 2030, securing America's leadership in reliable, clean energy technology."

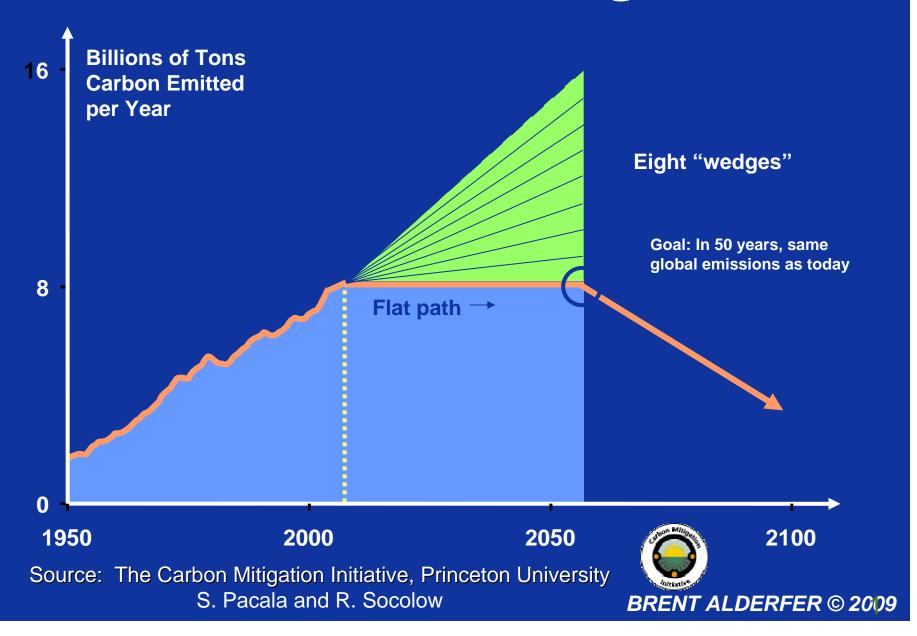
American Wind Energy Association

Electric Sector CO₂ Emissions



Source: Edgar DeMeo, Renewable Energy Consulting Services, Inc. Palo Alto, California

CO2 Stabilization Wedges



CARBON MITIGATION WITH WIND GENERATION



"A wedge worth of wind electricity will require increasing current capacity by a factor of 30"

Carbon Mitigation Initiative

Install 2 million

megawatts of windmills to replace coal-based electricity

Source: The Carbon Mitigation Initiative, Princeton, University S. Pacala and R. Socolow







