

Activities and Objectives of the NC Energy Policy Council

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May 25, 2010

EPC Background

➤ **NC Energy Policy Act of 1975**

- ◆ Response to “energy crisis” of early 70s
- ◆ NC needed “long-range energy policy, encompassing comprehensive energy resource planning”

➤ **SL 2009-446, HB 1481**

- ◆ Renewed sense of “crisis” (prices, carbon)
- ◆ Complimentary sense of “opportunity”

HB 1481 Ratified 7/09

- **NC Energy Assets consolidated under Commerce**
 - ◆ SEO from Administration
 - ◆ Weatherization from HHS
 - ◆ Leadership: Assistant Secretary for Energy

- **Revitalizes EPC**
 - ◆ Central Energy Policy Planning Body
 - ◆ Recommends to the Governor and General Assembly needed energy legislation and modifications to energy policy, plans, and programs

EPC Composition: G.S. 113B-3

➤ Two Members of the NC House

◆ Reps: Pricey Harrison, Angela Bryant

➤ Two Members of the NC Senate

◆ Senators: Ellie Kinnaird, Richard Stevens

➤ Twelve Public Members

EPC Composition

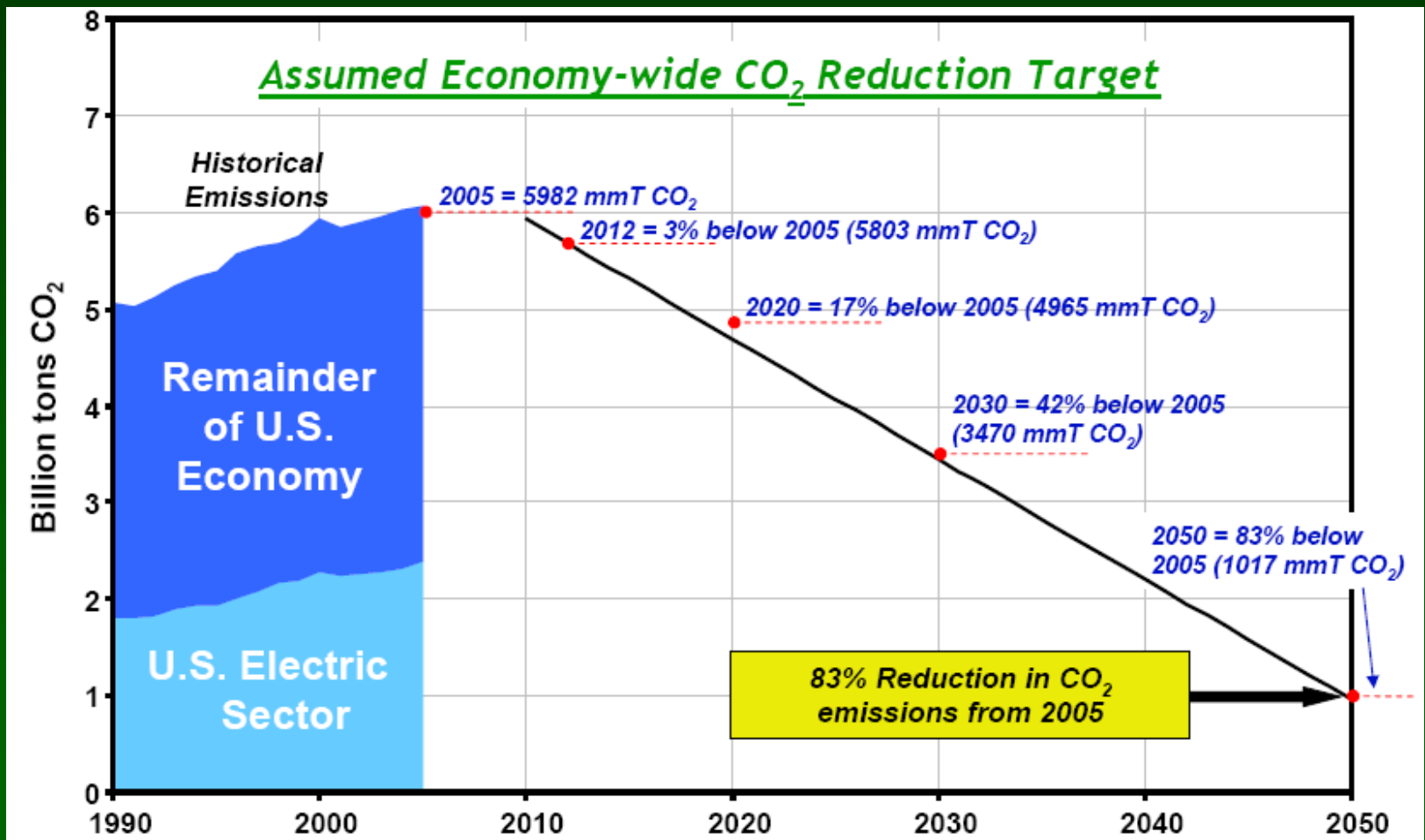
➤ **Public Members:**

- ◆ Electric Power Industry – George Everett
- ◆ Natural Gas Industry – George Baldwin
- ◆ Energy Policy – Jo Anne Sanford
- ◆ Alternative Fuels and Biofuels – Stephen Burke
- ◆ Energy Efficient Building Design – Tim Toben
- ◆ Environmental Protection – Michael Regan
- ◆ Renewable Energy Business – Markus Wilhelm, STS
- ◆ Alt or Renewable Energy Expert – Simon Rich
- ◆ Elected Municipal Officer – Rodney Locks
- ◆ Energy-Related Finance – Henry McKoy
- ◆ Low-Income Policy Matters – Reginald Speight
- ◆ Petroleum Industry – Kevin Garrison

EPC Duties and Responsibilities: G.S. 113B-6

- **To develop and recommend long-term state energy policy**
- **To assess opportunities and constraints**
- **To review and coordinate State government research, education, and management programs**
- **To recommend to the Governor and General Assembly needed energy legislation and modifications of energy policy, plans, and programs**

New Paradigm: Affordable Low Carbon



Next Step in Progression

➤ **Clean Smokestacks 2002**

- ◆ NO_x, SO_x

➤ **Renewable/Efficiency Portfolio Standard 2007**

- ◆ Low and no carbon: 12.5% by 2021

➤ **Affordable Low Carbon 2011**

- ◆ Energy supply, energy efficiency, transportation

EPC Deliverables

➤ Phase One -- April 30, 2010

- ◆ Work Plan for Developing Comprehensive ALC Energy Legislation by 1/1/11
- ◆ Recommendations for Executive Orders

➤ Phase Two -- January 1, 2011

- ◆ Draft Comprehensive ALC Energy Bill to be considered by the General Assembly

EPC Methodology

- **Assume Carbon Constraints will be Imposed**
- **Align EPC Subcommittees with ALC Objective**
 - ◆ Low Carbon Energy Supply
 - ◆ Low Carbon Transportation
 - ◆ Energy Efficiency
- **Utilize Existing Research and Analysis**
- **Solicit Stakeholders for Input**

EPC Subcommittees: Ascertain Five “P’s” Per Source

➤ **Potential**

- ◆ Full build-out generation or conservation (EE) potential

➤ **Policies**

- ◆ Applicable laws, specific regulatory decisions/tariffs, and regulations that incent or impede development of the energy or efficiency source

➤ **Price**

- ◆ Cost per MWh to generate or conserve the MWh's identified under potential

➤ **Pollutants**

- ◆ GHG's, particulates, mercury, other generated by the source

➤ **People**

- ◆ Jobs. How many and what types of jobs will be created?

EPC Methodology – Draft Input Matrix

➤ Energy Supply:

- ◆ Nuclear
- ◆ Coal (with and without CCS)
- ◆ Natural Gas (single-peaker only vs combined cycle-baseload)
- ◆ Hydroelectric
- ◆ Wind (offshore/onshore)
- ◆ Solar (PV/Thermal)
- ◆ Biomass (co-fired w/coal, existing plants, new)
- ◆ MSW Landfill Gas
- ◆ Other
- ◆ Total Supply (for 2010-current, 2015, 2020, 2030)

EPC Methodology – Draft Input Matrix

➤ Energy Efficiency:

- ◆ DSM/Smart Grid
- ◆ Combined Heat & Power (CHP)
- ◆ Building Retrofits
- ◆ Building Codes/ HP New Buildings
- ◆ Appliance Standards
- ◆ Natural Gas Consumer Efficiency
- ◆ Total EE (for 2010-current, 2015, 2020, 2030)

EPC Methodology – Draft Input Matrix

➤ **Low Carbon Transportation:**

- ◆ Electric Vehicles
- ◆ Biofuels
- ◆ Anti-Idling Technologies/Incentives
- ◆ Mode Shifting: Truck to Rail
- ◆ Planning/Smart Growth
- ◆ Soil Carbon Management
- ◆ Forestry Management
- ◆ Total Transportation (for 2010, 2015, 2020, 2030)

Sample Output Format: Timeframe 2020

Energy Supply	Potential	Policies	Price	Pollutants	People
Nuclear					
Coal with CCS					
Wind Offshore					
Solar PV					

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