

# **Energy Efficiency Advisory Group**

**Meeting # 13**

**August 4<sup>th</sup>, 2009**

**Web Conference Call**

# **MGA**



**Midwestern Governors Association**

# Purpose of Meeting

- Review and comment on the EE sections of the draft Roadmap
- Decide on how the group would like modeling results used in the Roadmap
- Get updated on system model EE results and underlying model assumptions

# Meeting Agenda

9:00 Getting started

9:10 Discussion of the Roadmap

9:30 Use of modeling results in Roadmap

9:45 System model results and underlying assumptions

10:20 Timeline and next steps

10:30 Adjourn

# Overview of Roadmap Outline

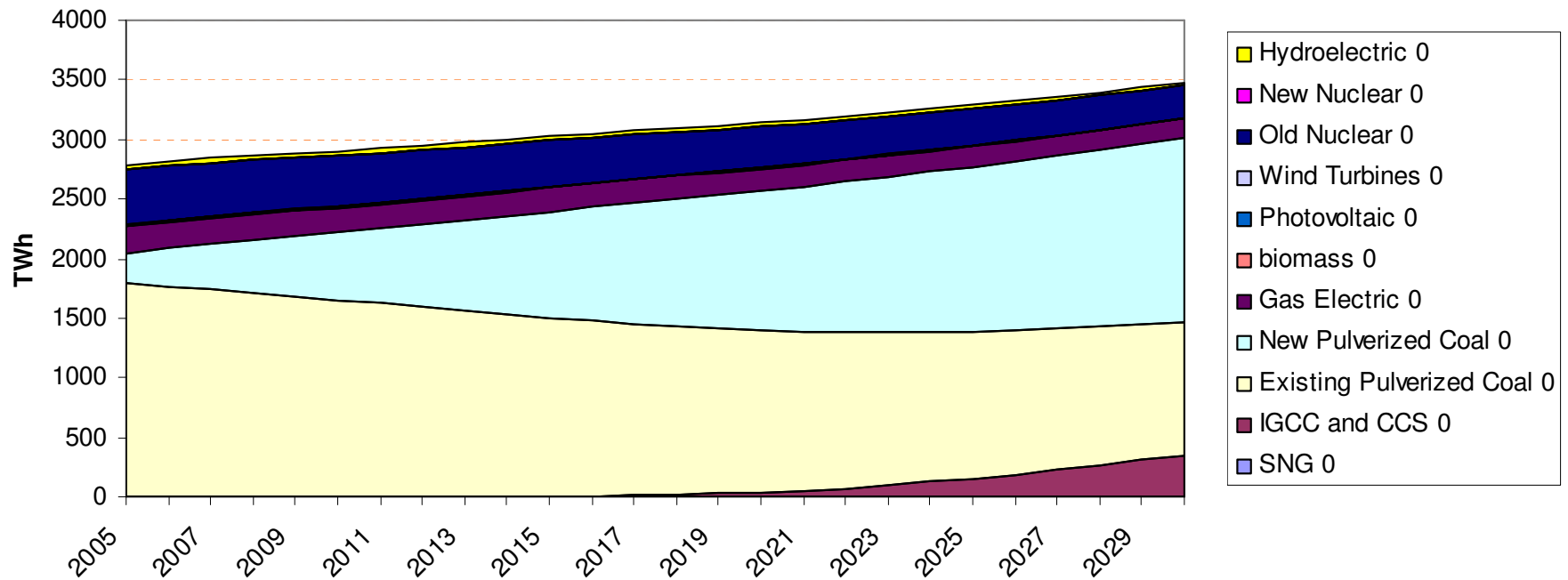
- Executive Summary ~ 10 pages with 4 action items from each technology area
- Technology chapters
  - EE
  - Renewable energy
  - Advanced coal with carbon capture
  - Bioenergy and transportation

# EE Chapter

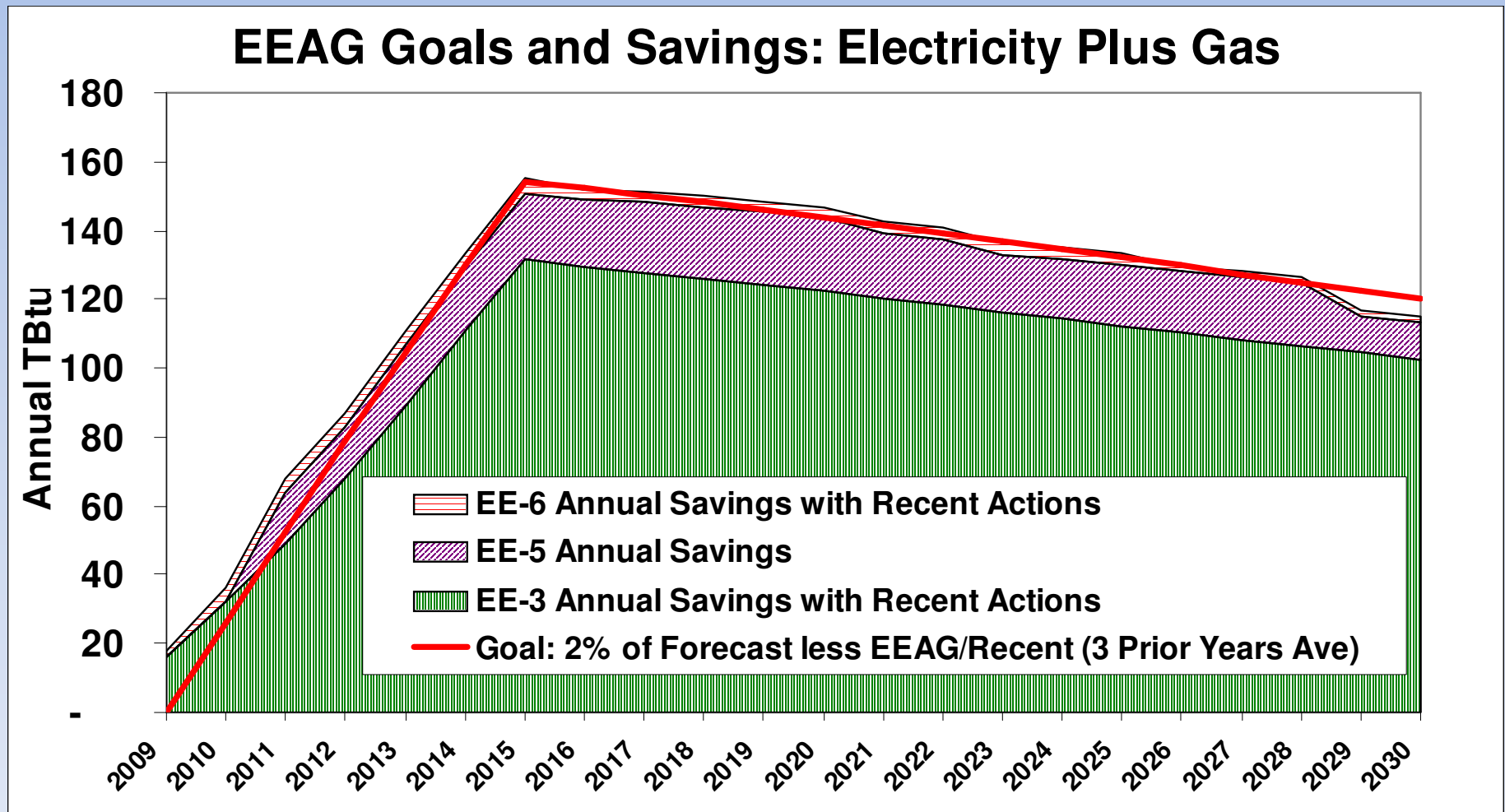
- Introduction on why EE is important
- Summary of 2% goal
- White Paper finds goal aggressive and achievable
- Overview of policy recommendations
  - Retail energy providers make EE a priority
  - Increasing utility incentives
  - Codes and standards
  - Public sector lead by example
  - Combined heat and power
- Midwest has a good start
- Model results

# Modeling Results in EE Chapter

## Electricity Production

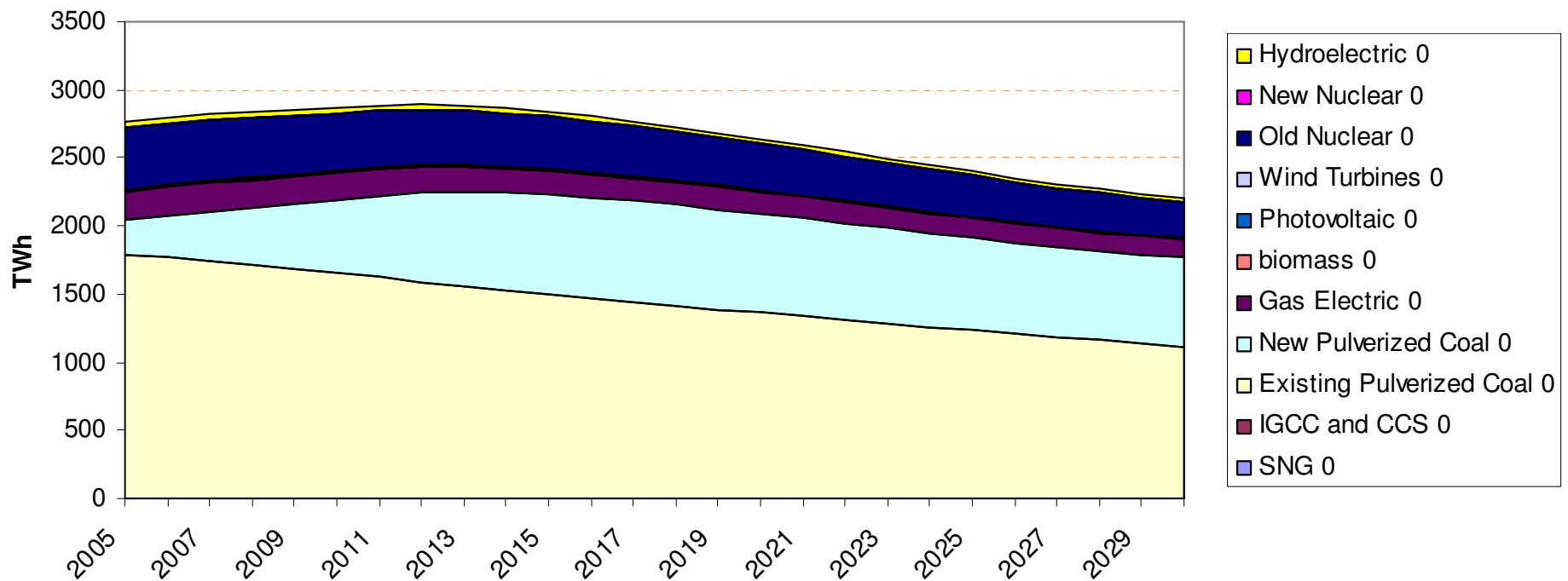


# Modeling Results in EE Chapter



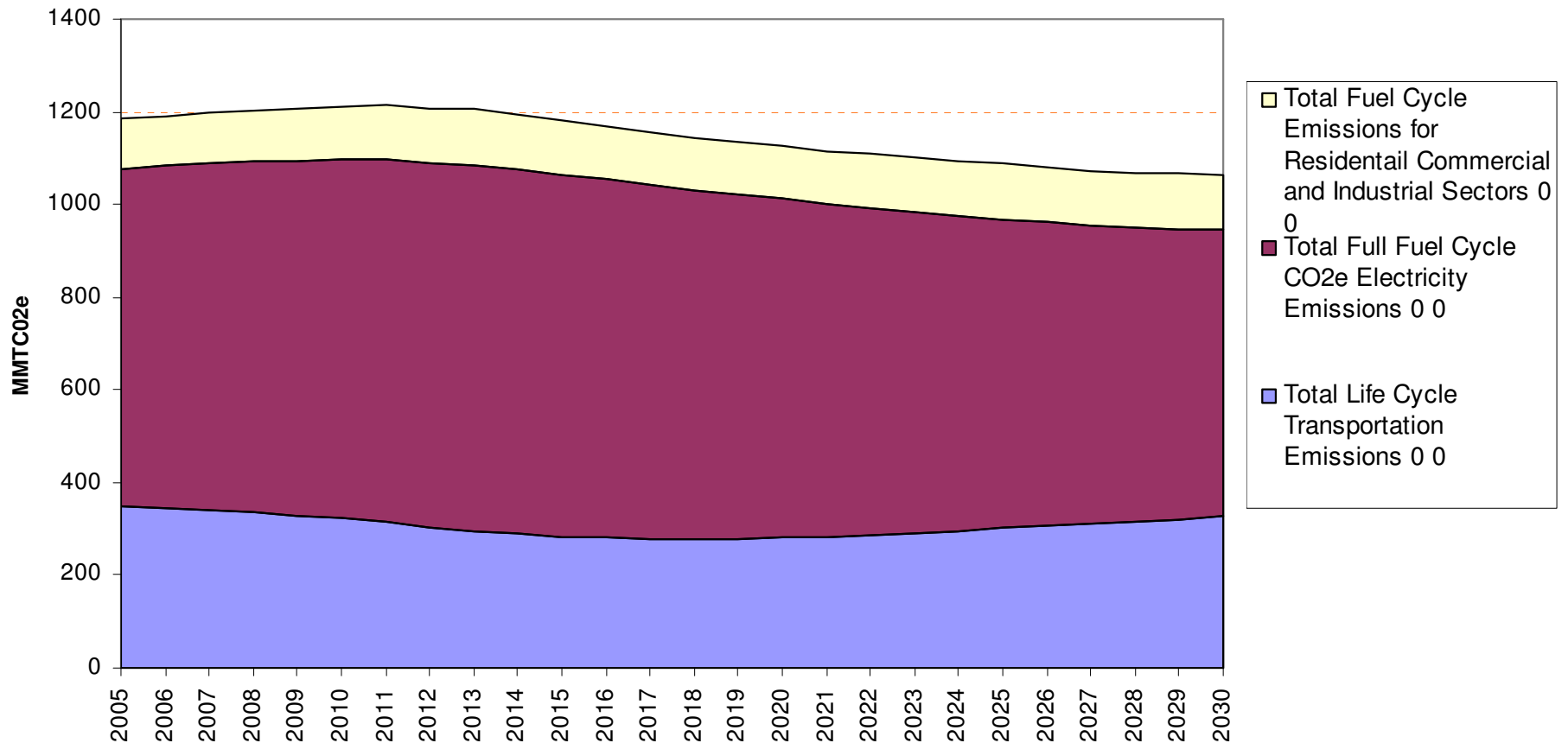
# Modeling Results in EE Chapter

## Electricity Production



# Modeling Results in EE Chapter

## Total Emissions

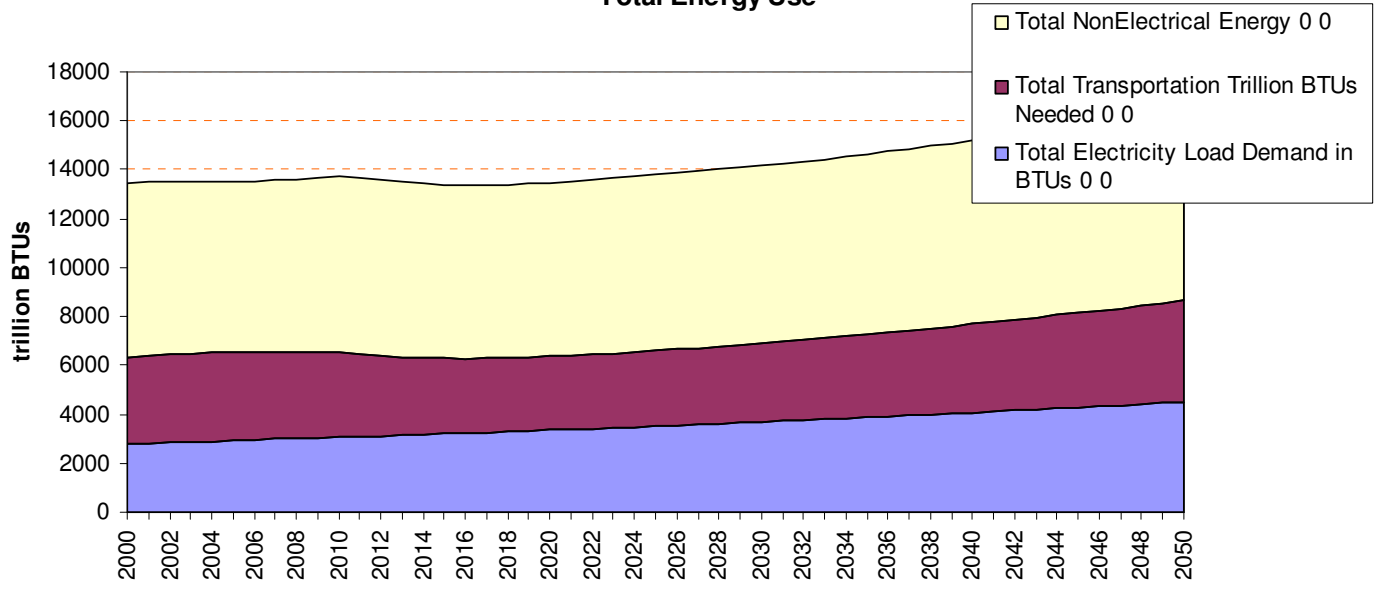


Does this fit the “story” that you  
want to tell?

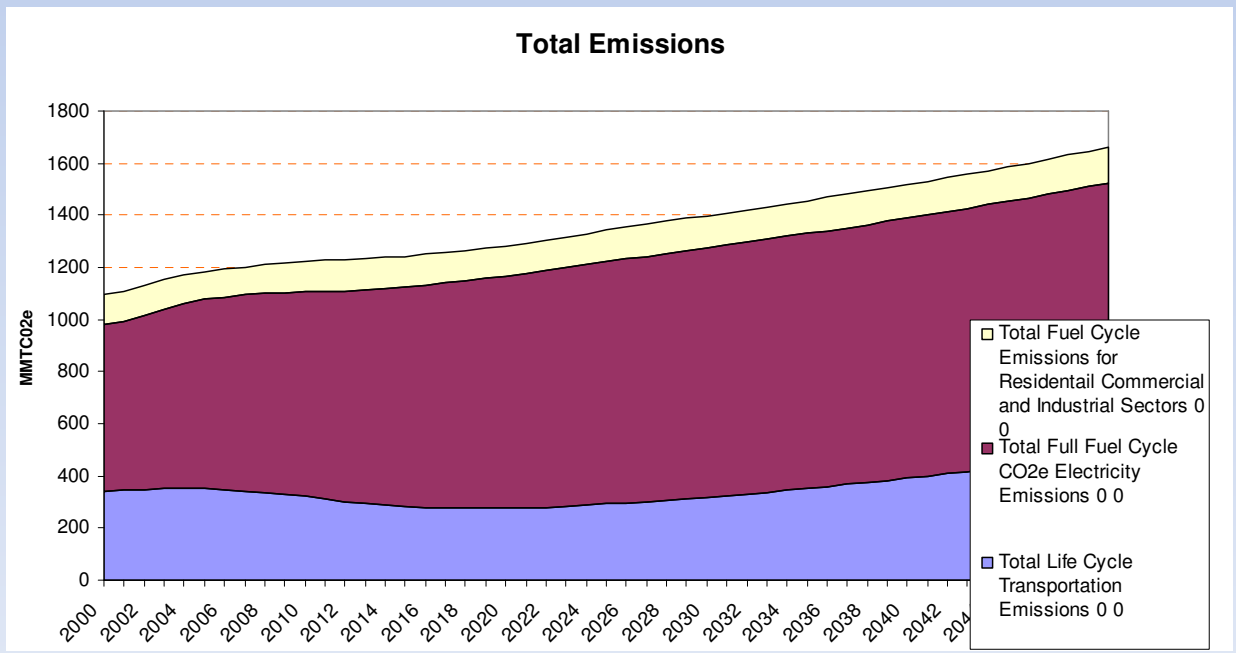
# System Model Discussion

## New Baseline Results

### Total Energy Use



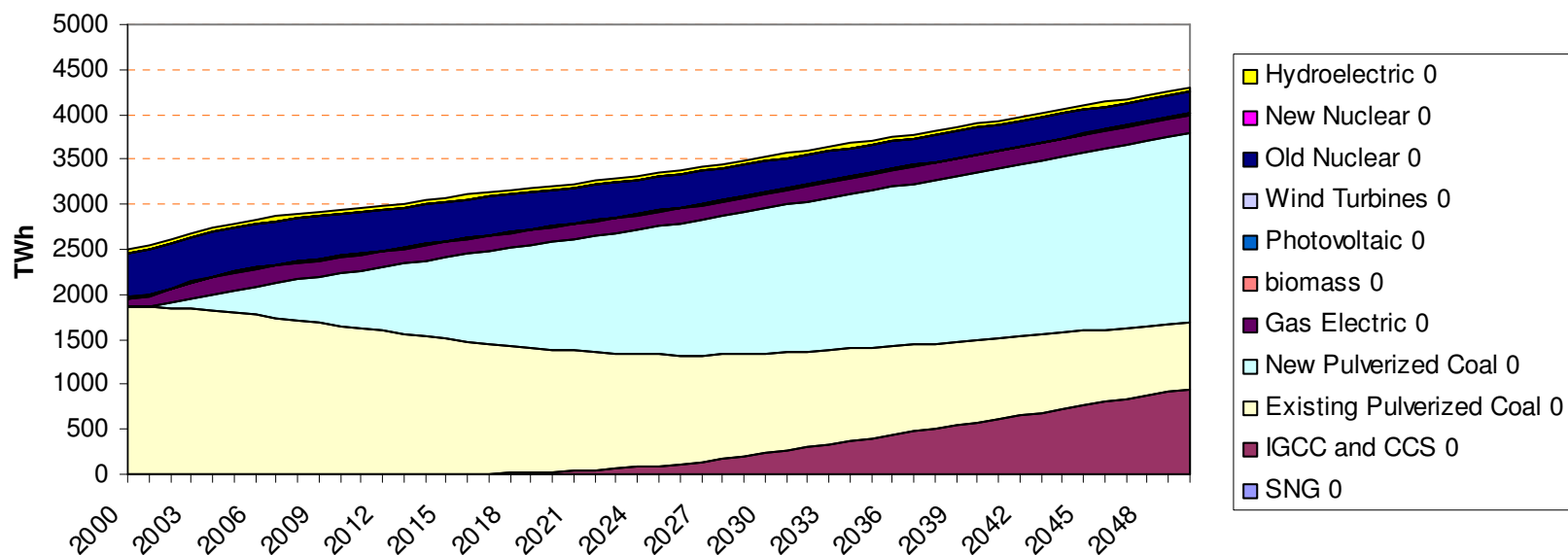
### Total Emissions



# Assumptions

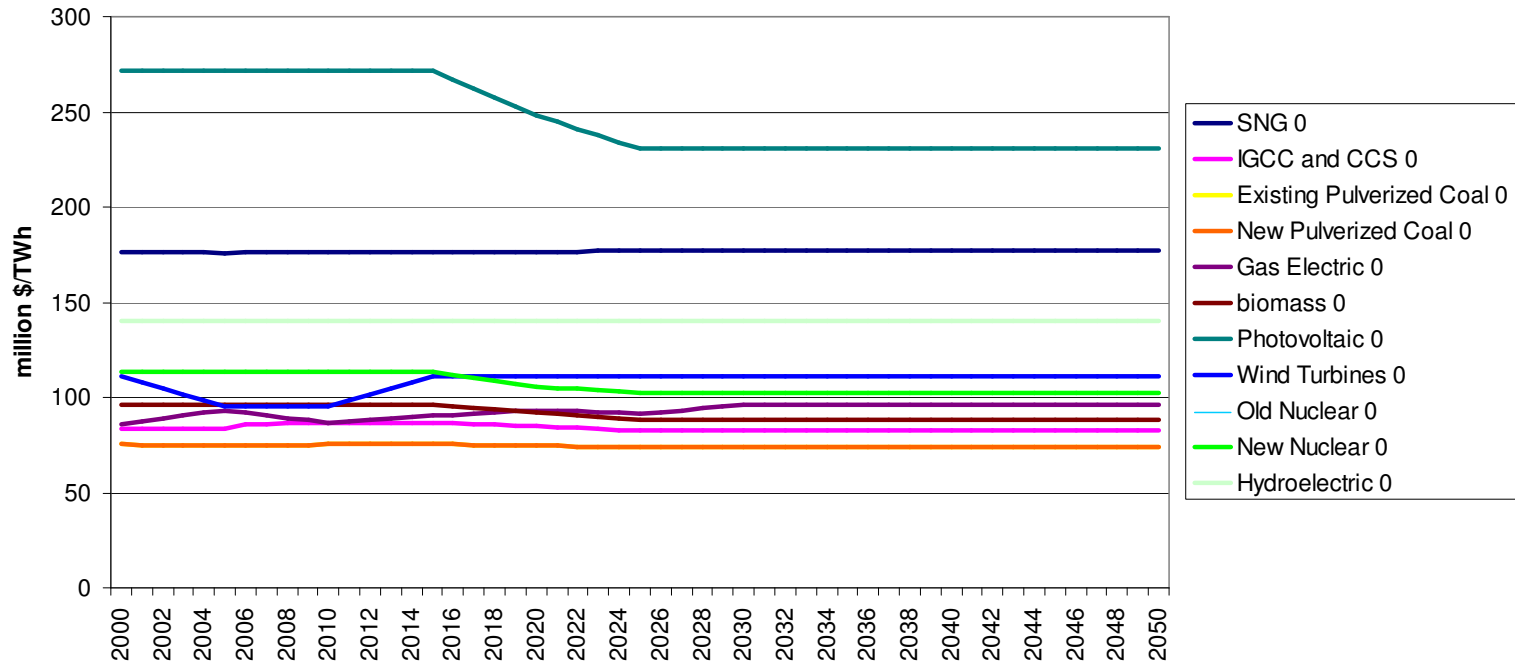
- .83% annual increase in electricity demand
- .3% annual increase in delivered energy for space heating
- Numbers derived from AEO, 2009, reference case

## Electricity Production

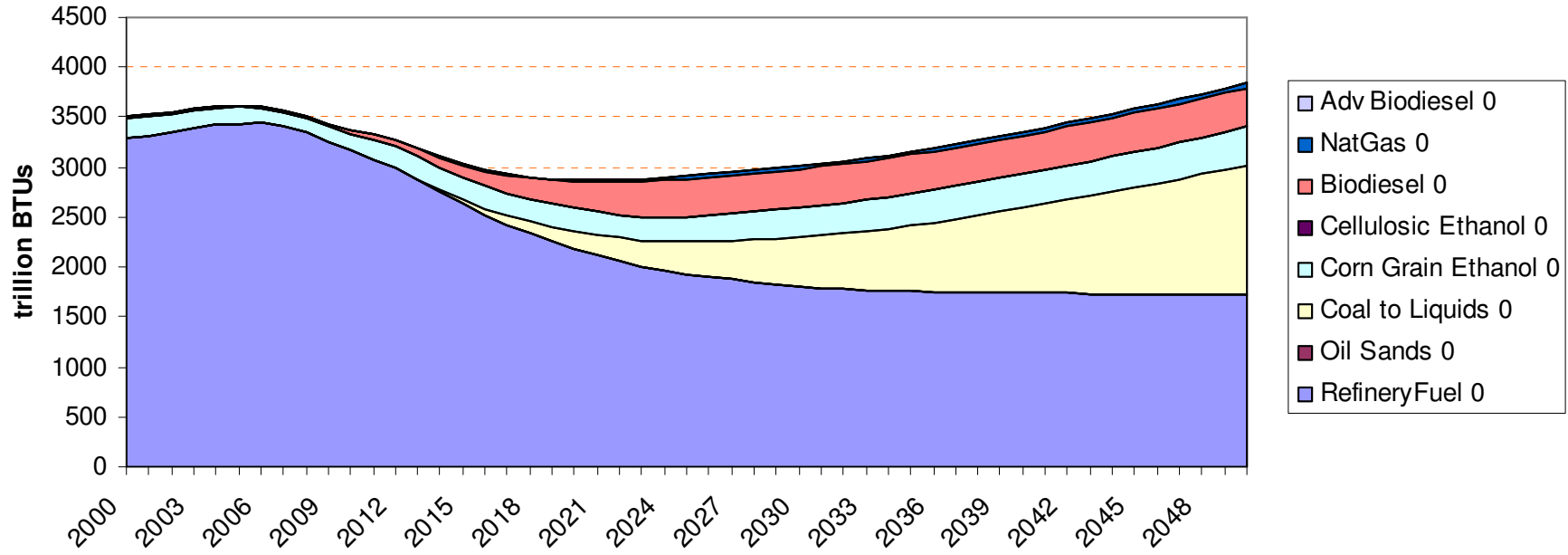


- No wind appearing in the reference case
  - EW adjusted the PTC so that the equivalent of ten years' worth of payments affect the levelized average cost of generation, and that is not sufficient to make wind cost-effective relative to IGCC and CCS and coal.

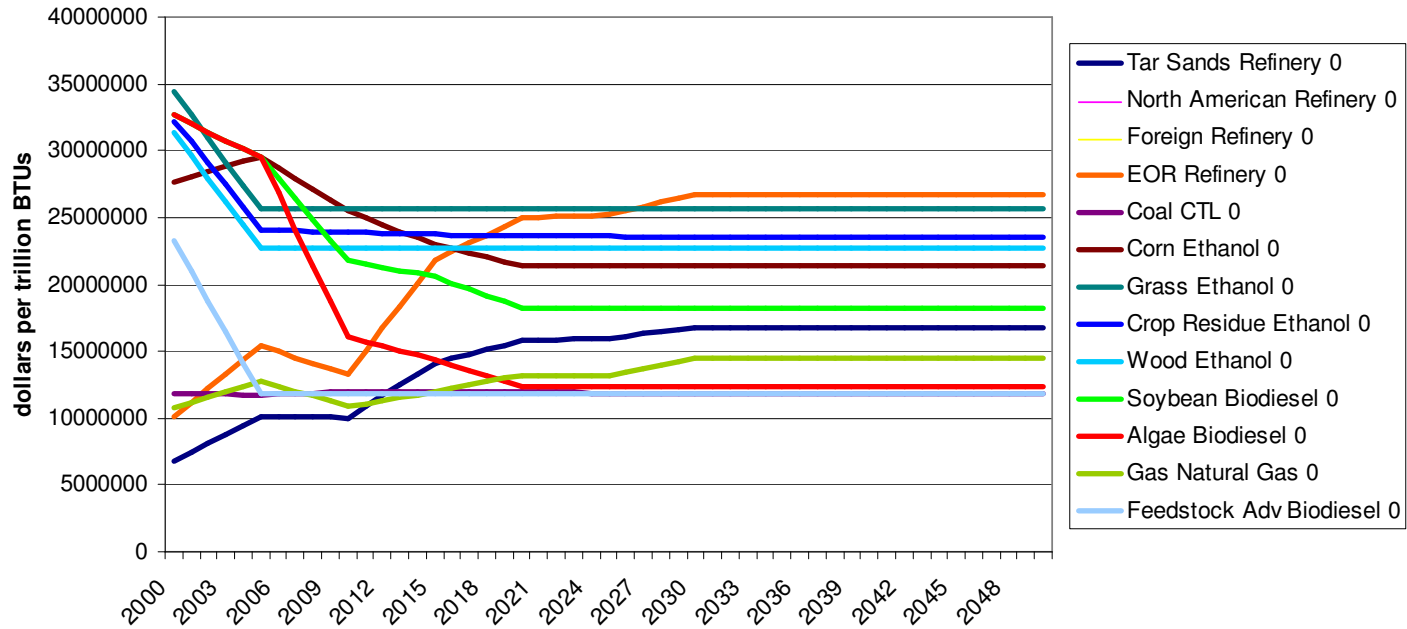
### Levelized Average Cost of Electricity Generation

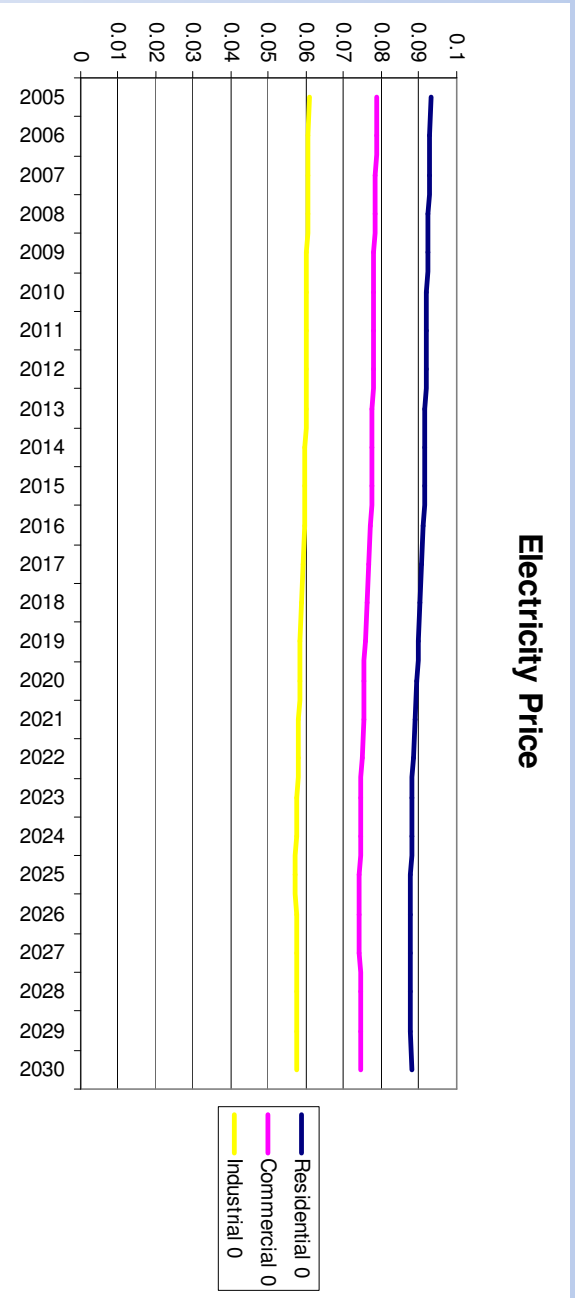
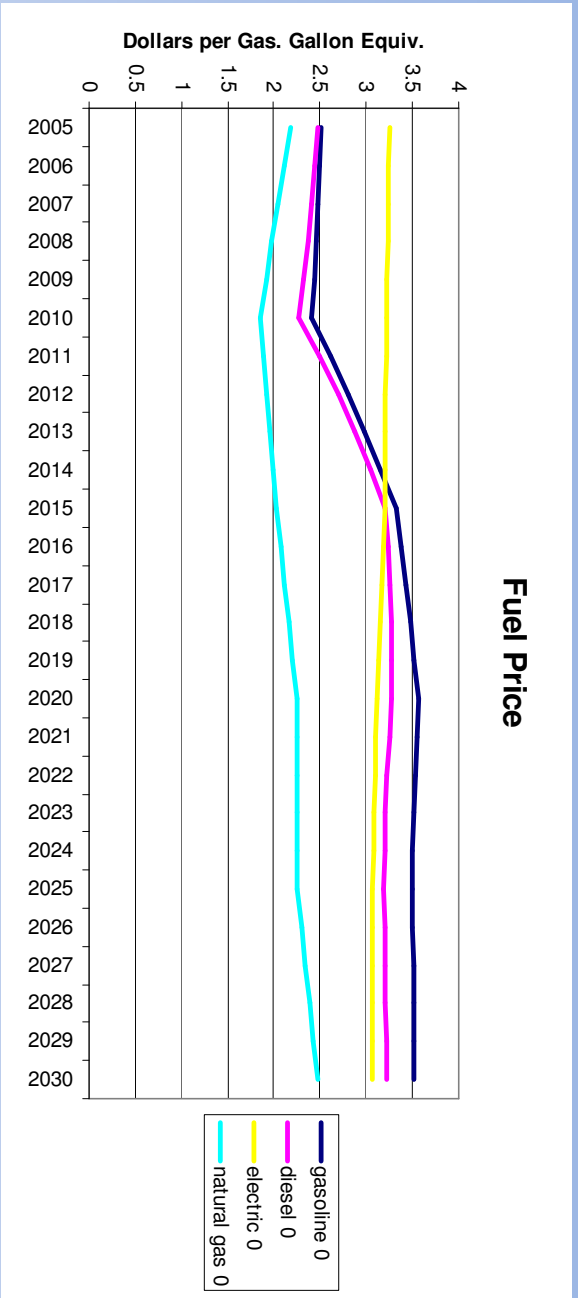


# Transport Fuel Production



## Levelized Average Cost of Fuel Pathways





- No inflation is included

# Next Steps

- EEAG comments on the EE chapter by COB Friday, August 7<sup>th</sup>
- Roadmap finalized and sent to Governors' staff on August 24<sup>th</sup>
- Summit registration is on the web site – see you there!

# Energy Efficiency Advisory Group Facilitation Team

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