




# **Roundtable: The Future of Regional Wholesale Power Markets**

## **LSU Energy Summit 2014**

### **The Future of Louisiana Energy**



**Todd Hillman, MISO**  
**John Hurstell, Entergy Corporation**  
**Jennifer Vosburg, NRG Energy**

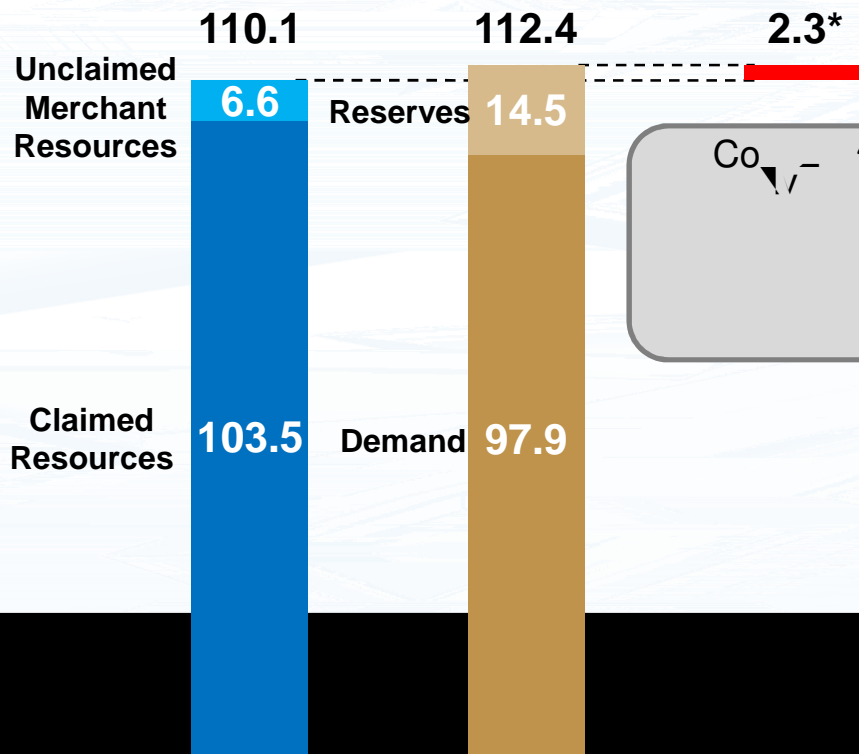
# The generation fleet in MISO is being affected by timing, fuel prices and multiple phases of environmental regulations



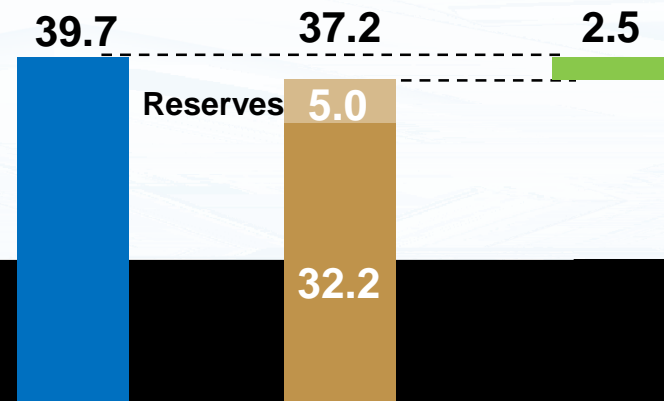
	MATS	CSAPR & CWIS	GHG	NAQTS & Coal Ash
<b>Nature of Regulation</b>	Mercury and Air Toxics Standards	Coal Ash and Air Pollution	Carbon Sequestration	Nitrogen Oxide and Acid Deposition Control
<b>Compliance Dates</b>	2015	2015	2015	2015
<b>Impacts</b>	Increased coal and gas generation, reduced natural gas and wind	Coal Ash and Air Pollution	Increased coal and gas generation, reduced natural gas and wind	Coal Ash and Air Pollution

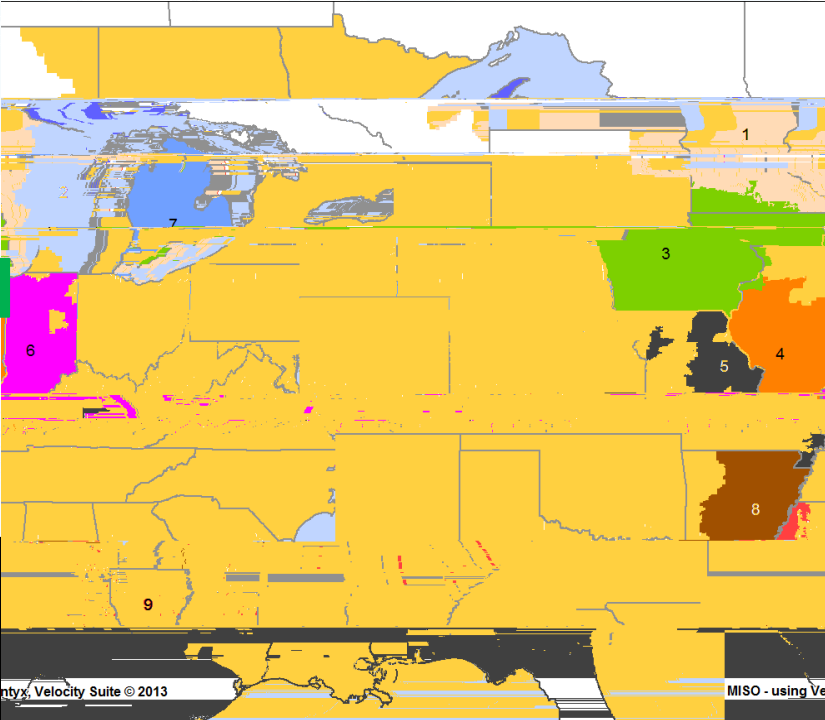
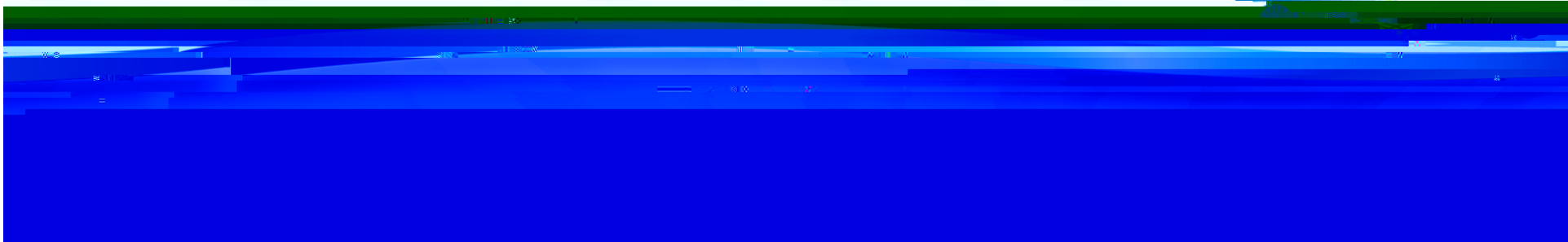
# MISO is currently projecting a reserve margin shortfall in the North and Central Regions starting in 2016

## Central & North Regions In GW



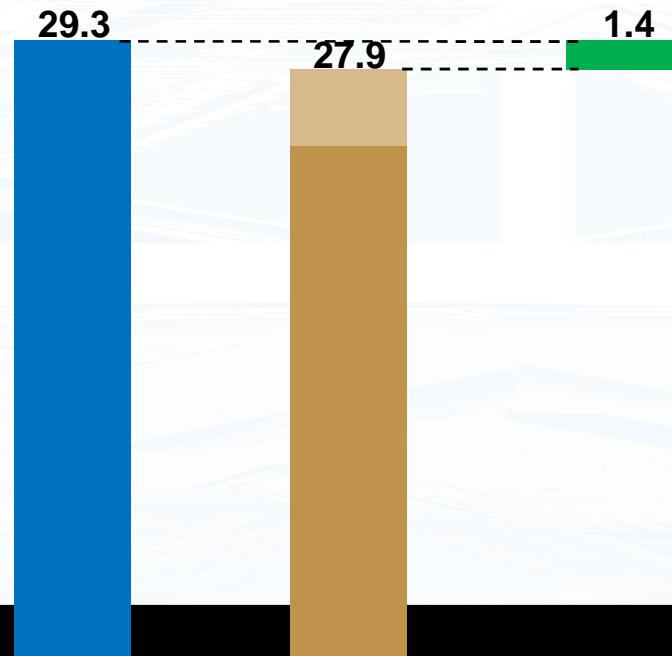
## South Region In GW



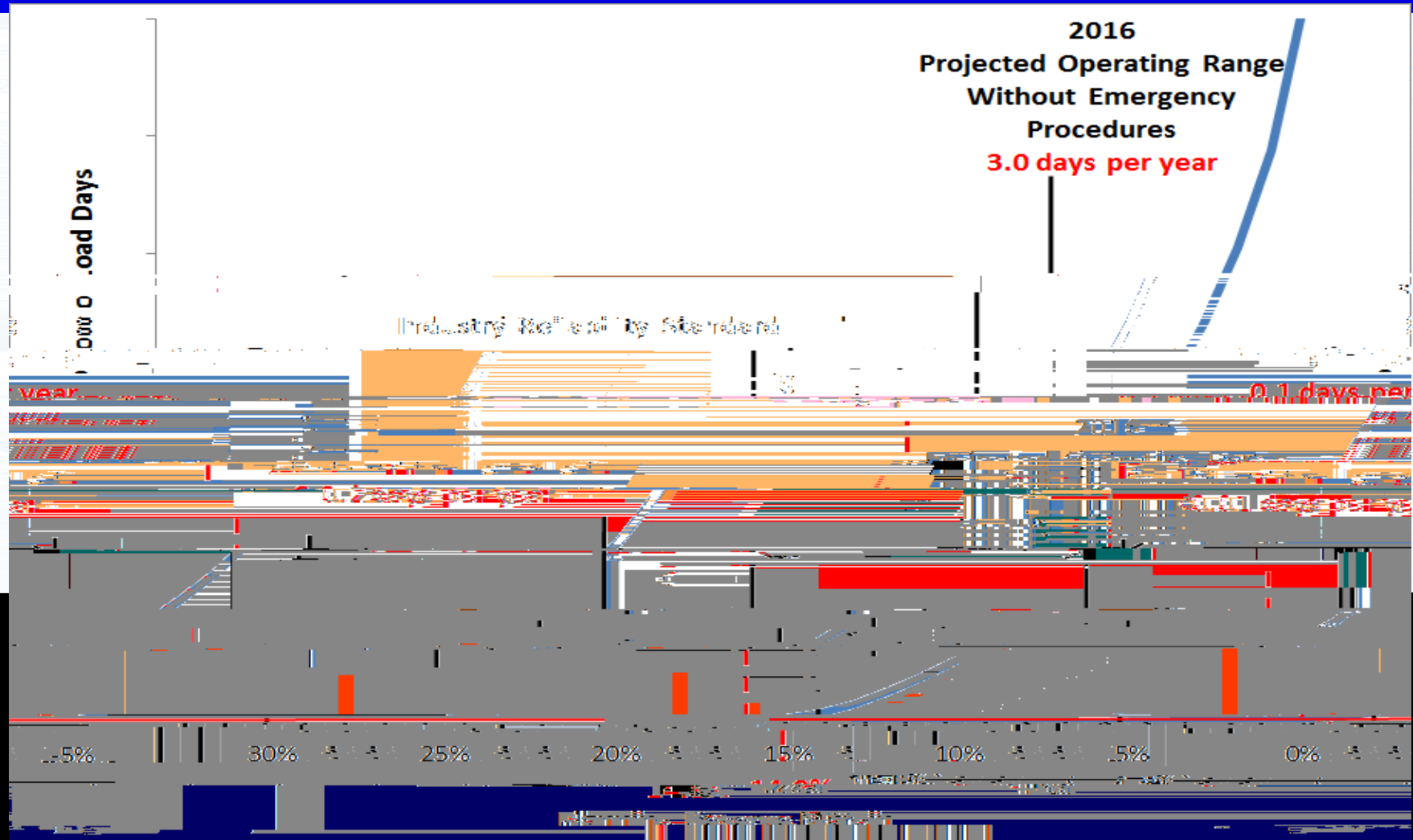


# 2016 Resource Adequacy Forecast - Zone 9 (LA, MS, TX)

As of June 2, 2014  
In GW

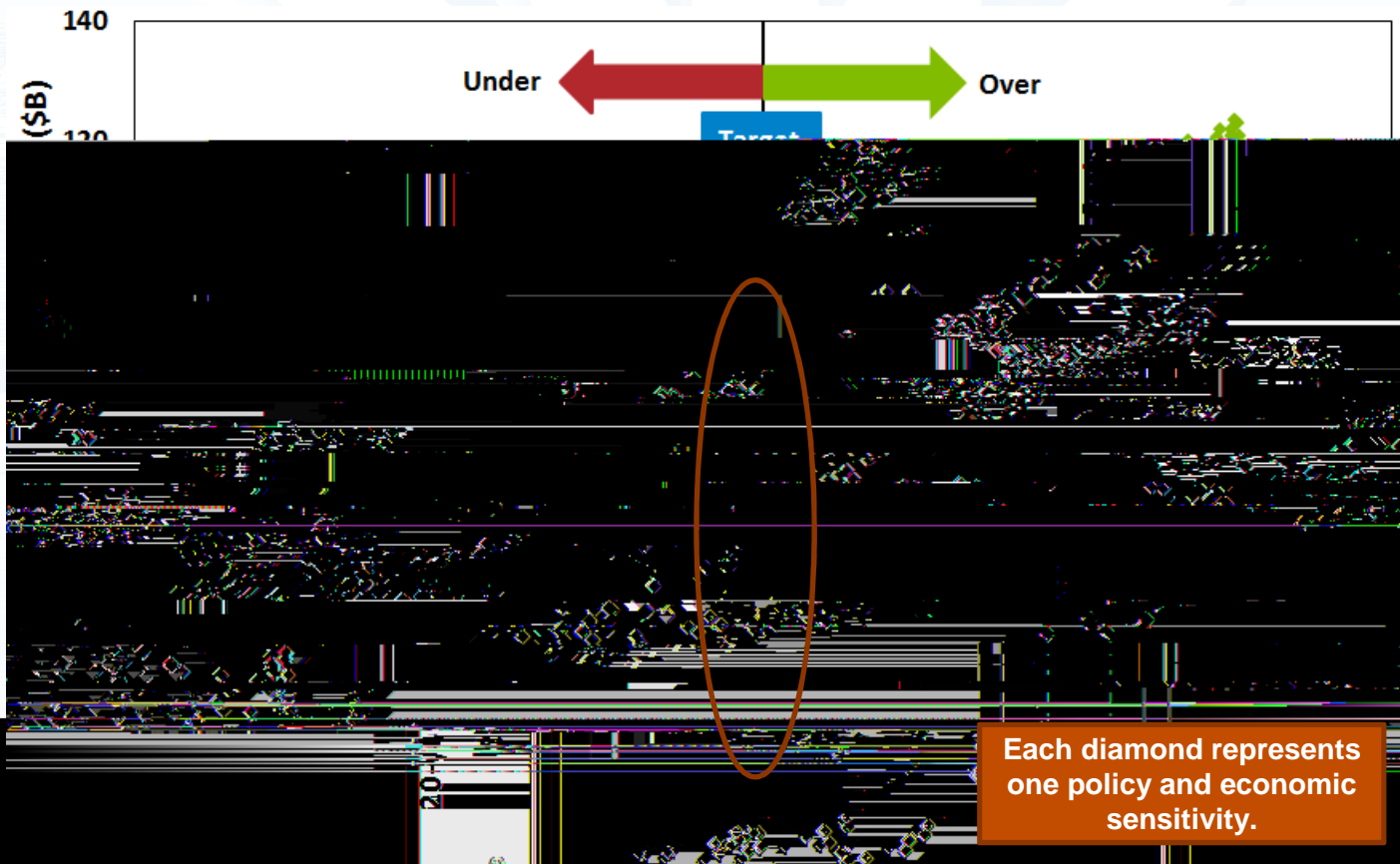


# As planning reserves erode, the probability of reliance on Emergency Operating Procedures and loss of load will increase



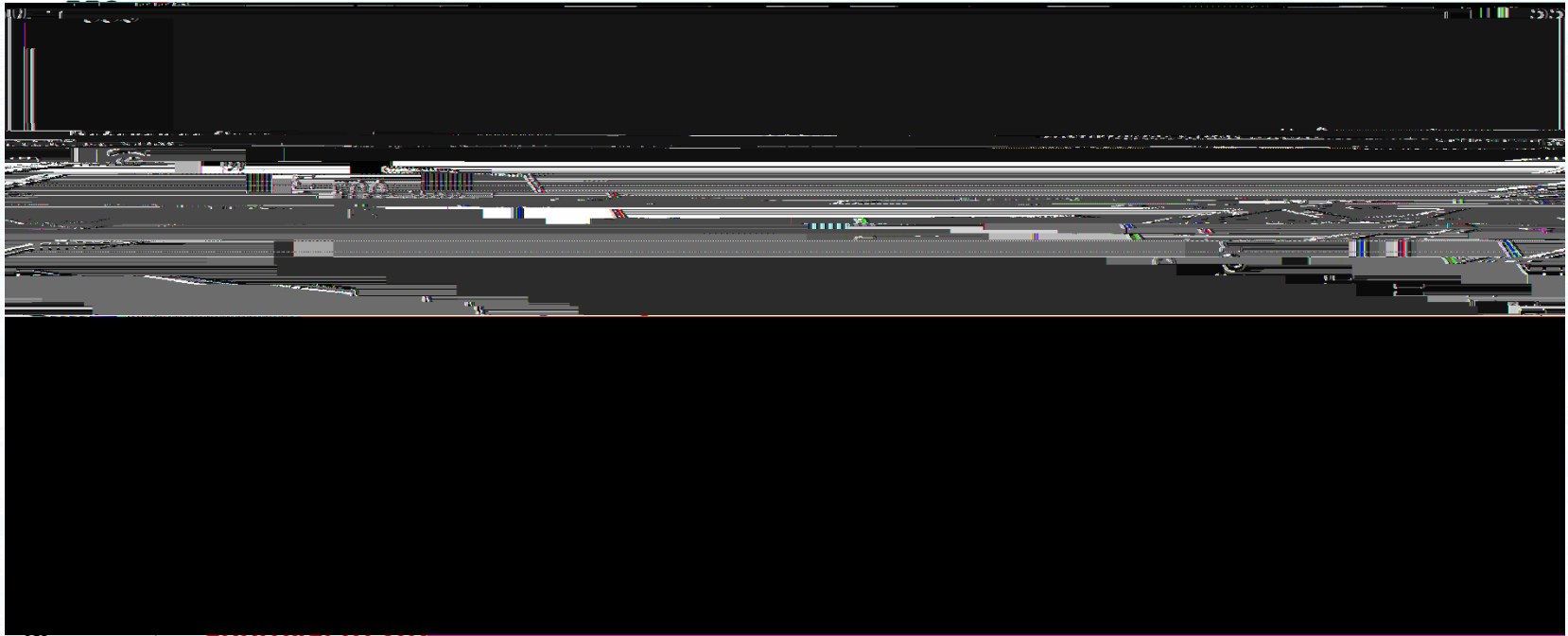


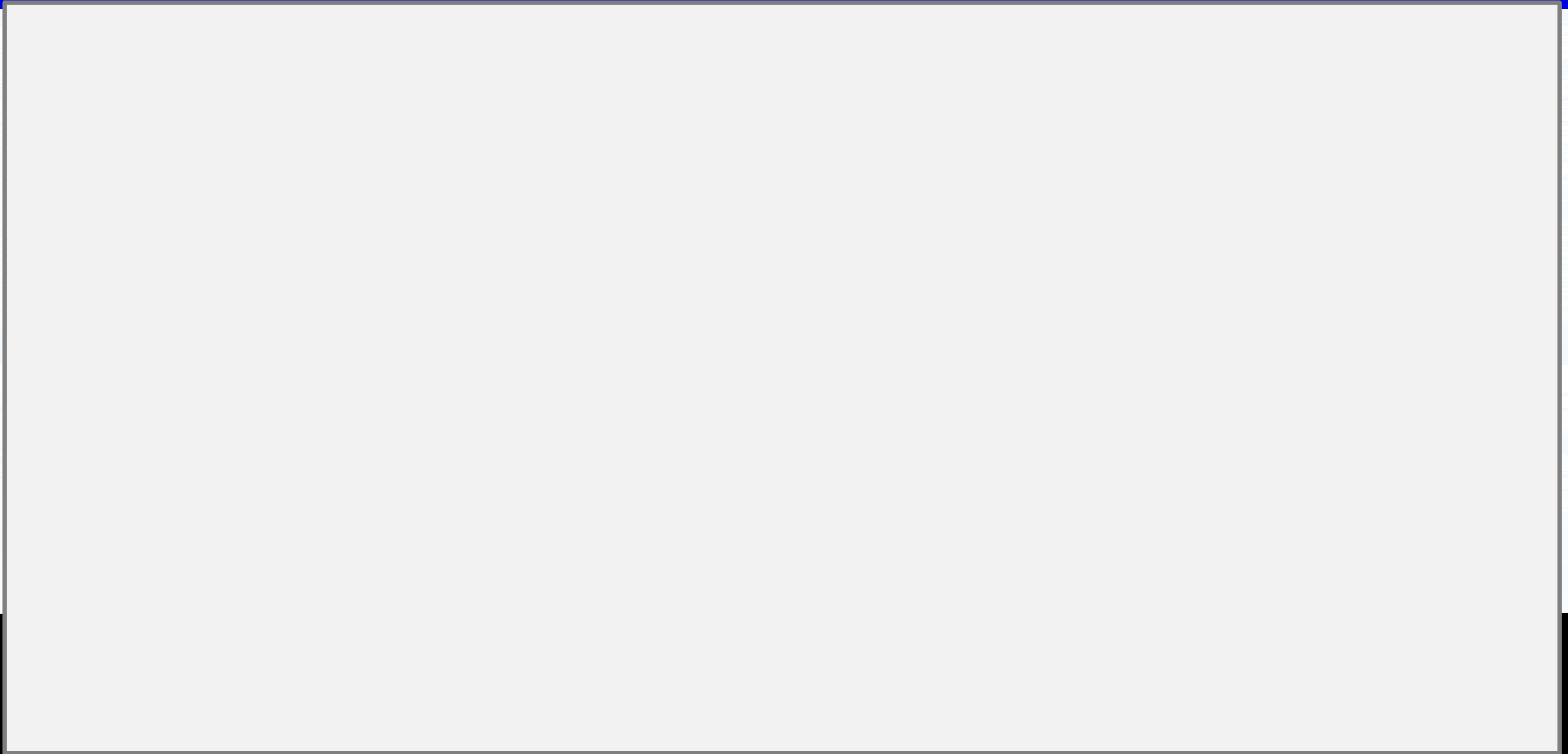
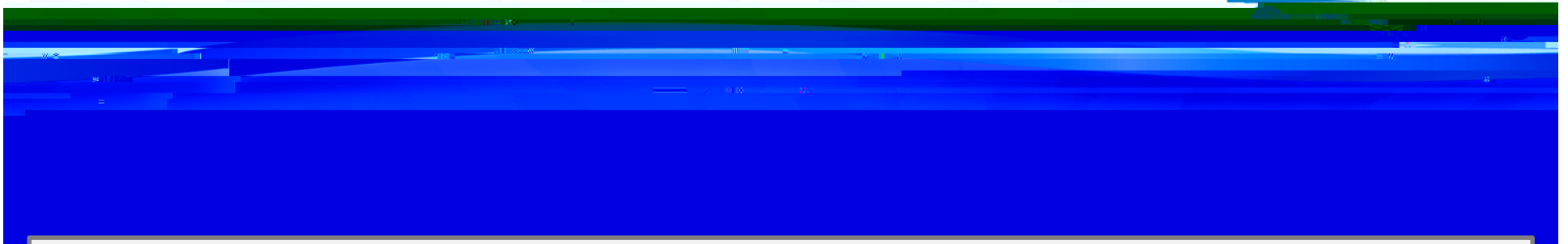
# Lower cost compliance strategies would retire up to an additional 14GW of coal capacity





**Is there enough time to implement lower cost compliance strategies?**







# Is There a Case to be Made for Regionalization?

