

# What Will Fuel Diversity Look Like in 2022?

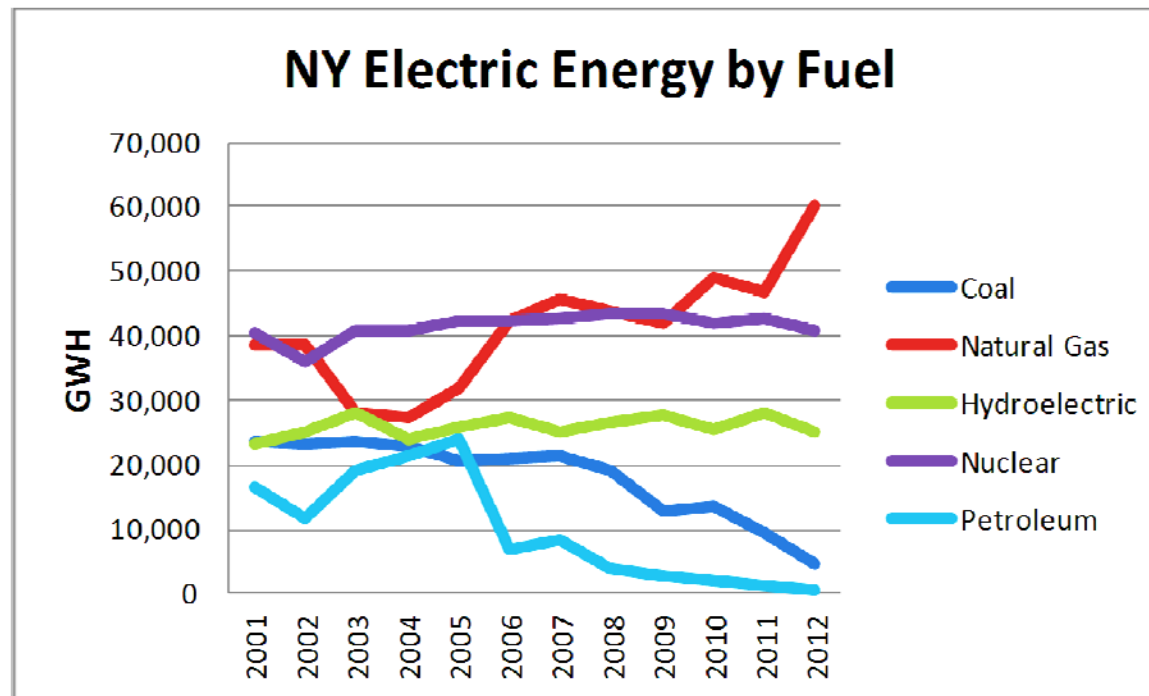
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**Environmental Advisory Council**

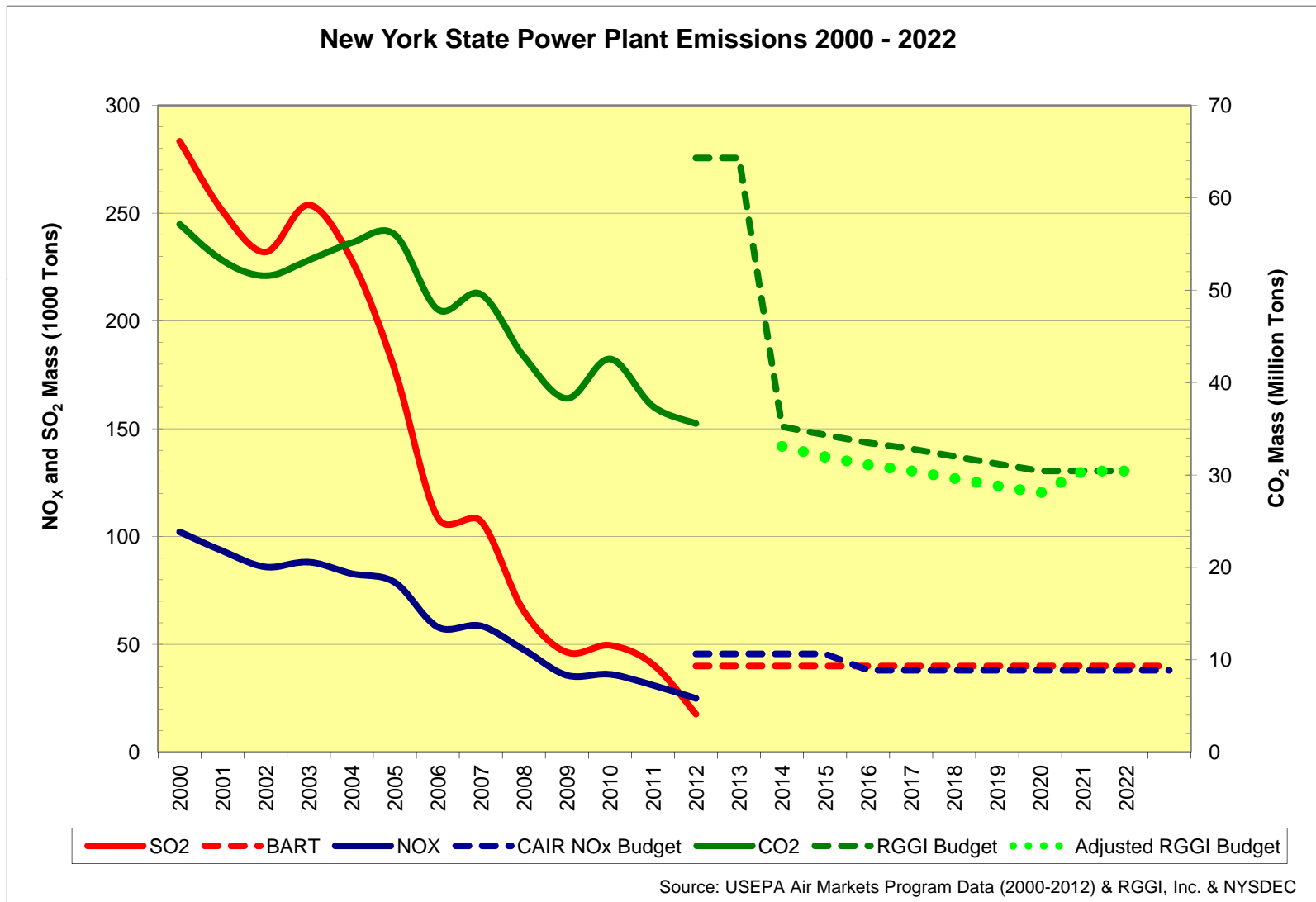
*November 15, 2013  
Albany, NY*

# Gas has effectively displaced both coal and oil

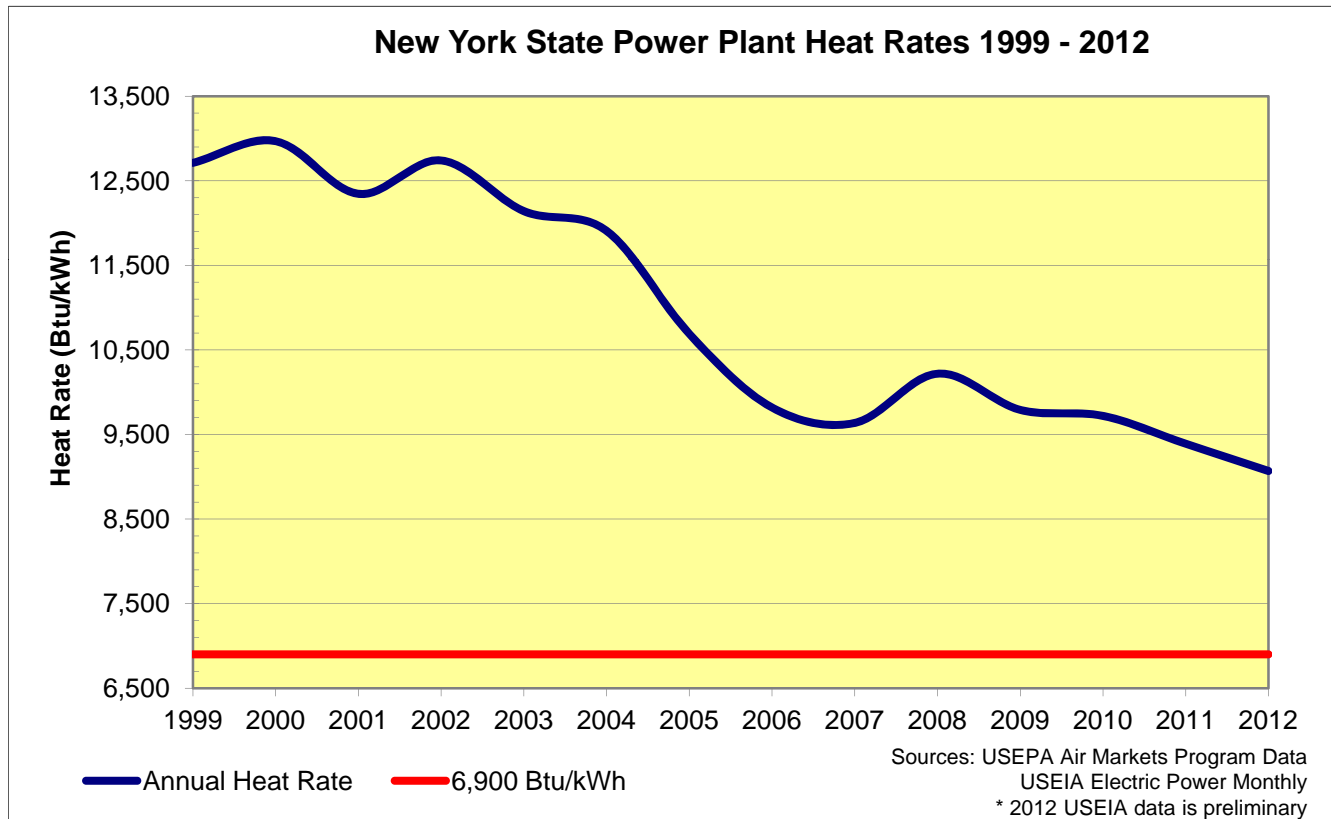


USEIA Data

# Emission Trends

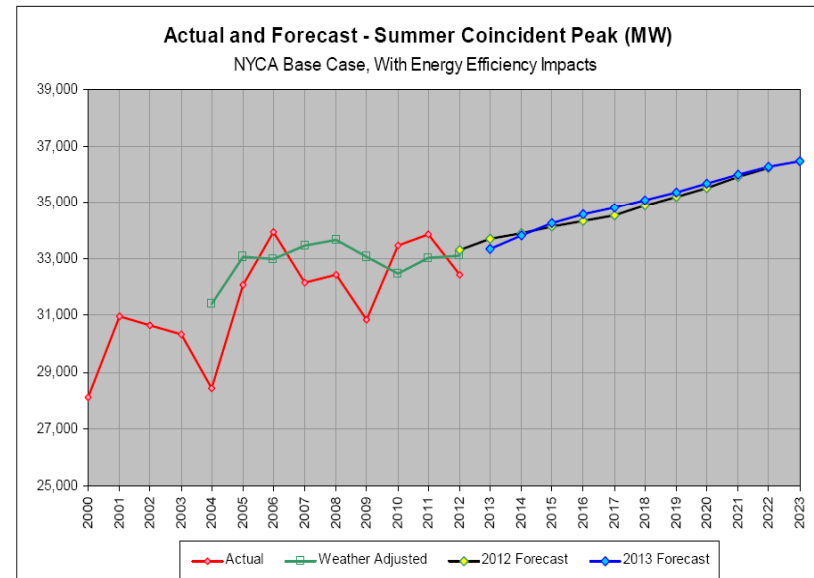
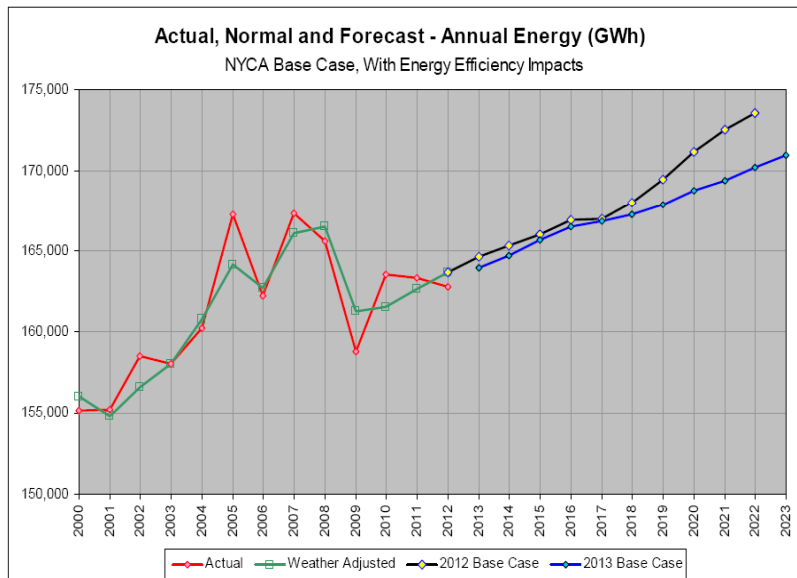


# System Heat Rate Trend



# Peak Demand Growth= 0.8%

# Energy Growth= 0.4%



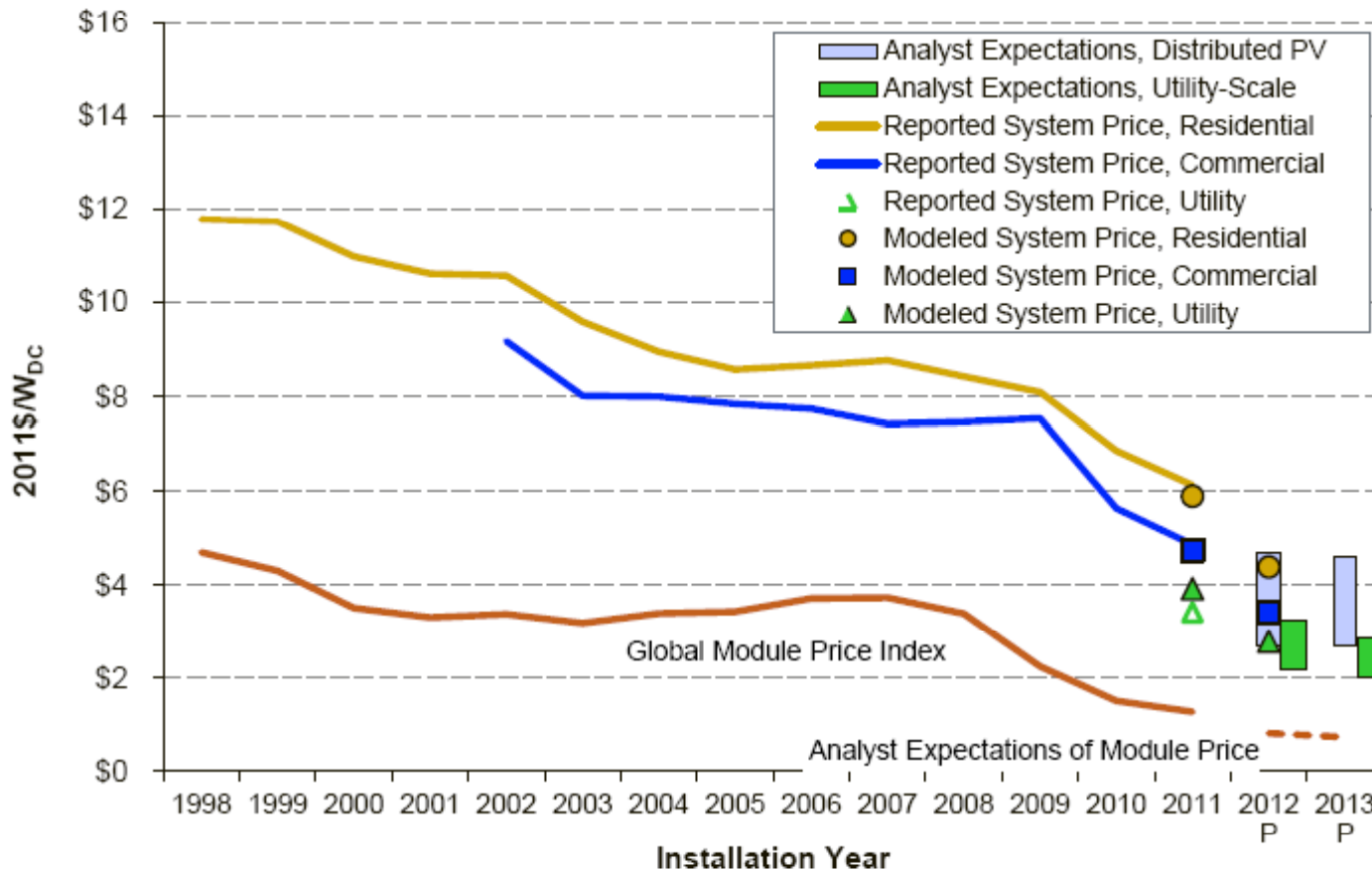
As natural gas prices have declined, RPS costs have increased

Figure 3. Main Tier Solicitations –Weighted Average Award Price by RFP



SOURCE: NYSERDA 2011 RPS Program Report

# PV System Costs are dropping rapidly

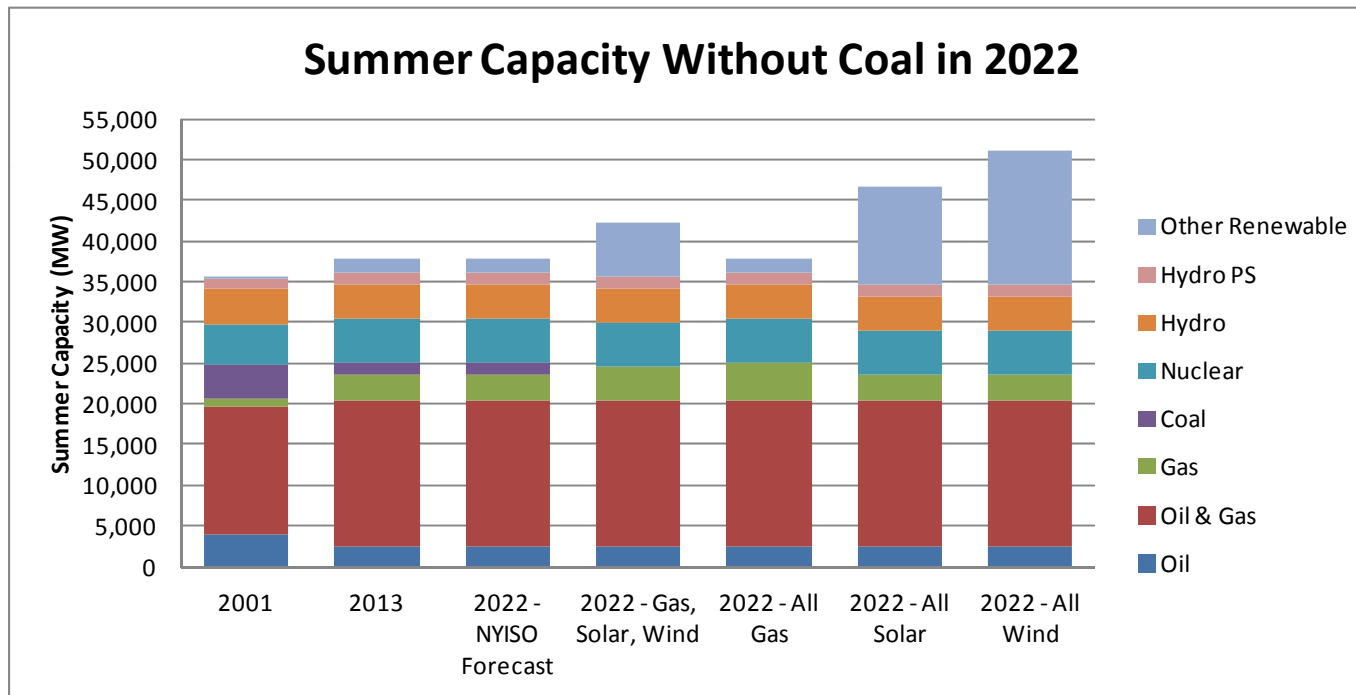


# NY RPS Shifting Focus

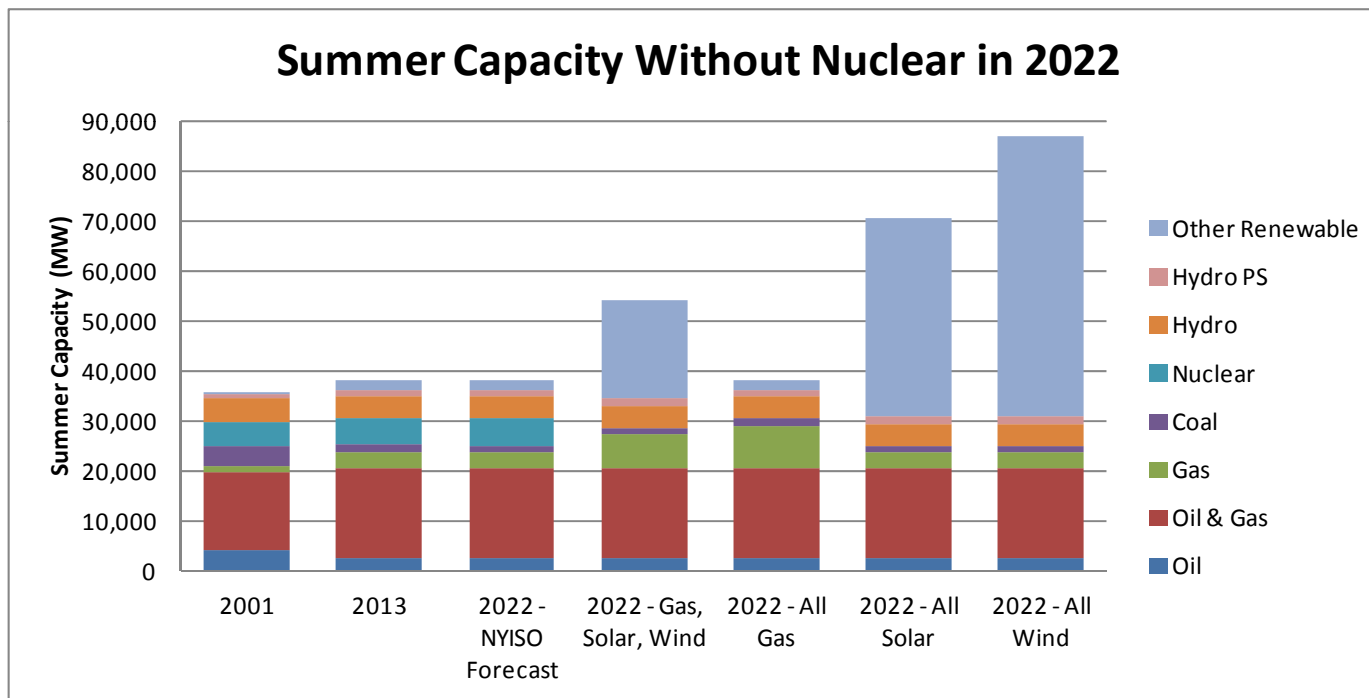
- ◆ **Increased emphasis on PV**
- ◆ **Increased funding for behind the meter systems**
- ◆ **PV production pattern is a better fit with daily demand in the Summer**
- ◆ **PV has obvious limitations that will require a balance of fossil and renewables**
- ◆ **? What will the balance look like?**



# What could the fleet look like without coal?



# What could the fleet look like without Nuclear?



The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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