


# ***Chart of the Week 2022-37:*** **United Kingdom's Electricity Generation Mix:** **Some Considerations**

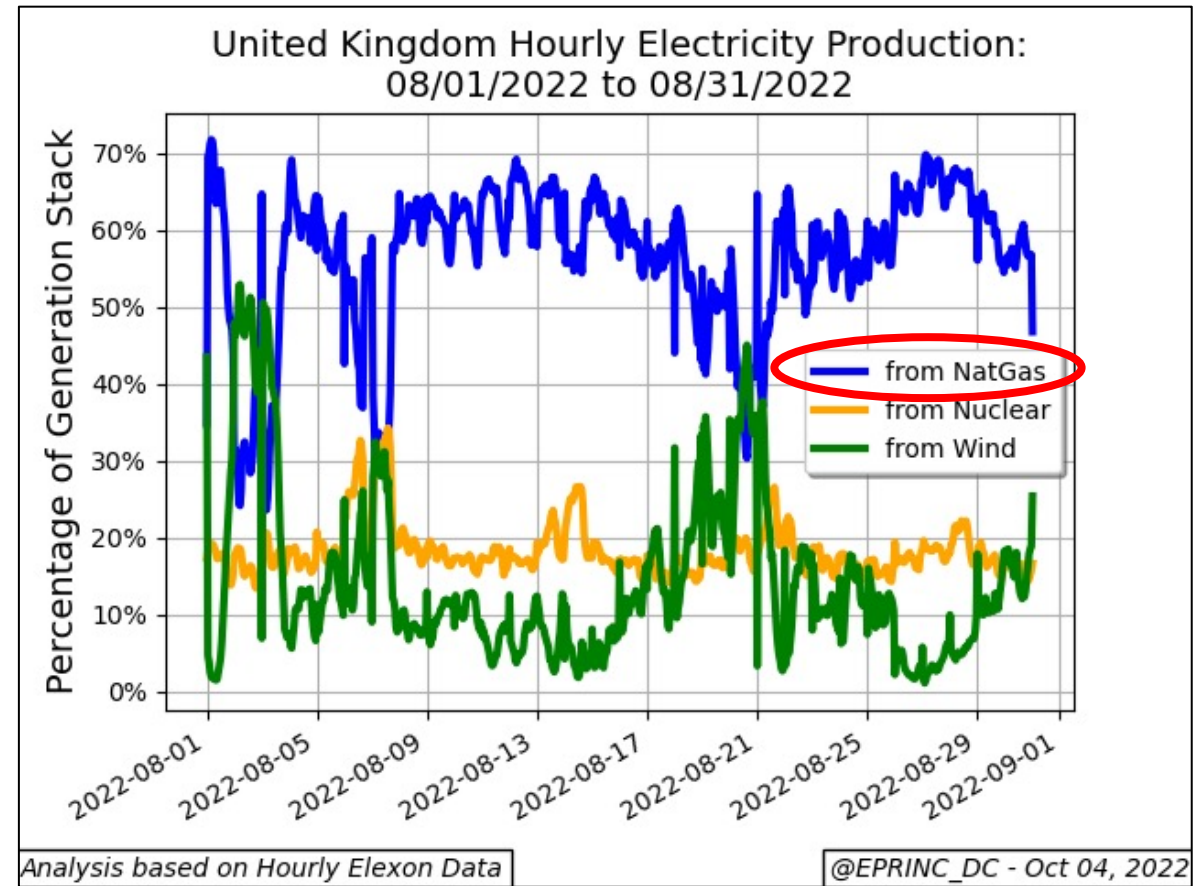
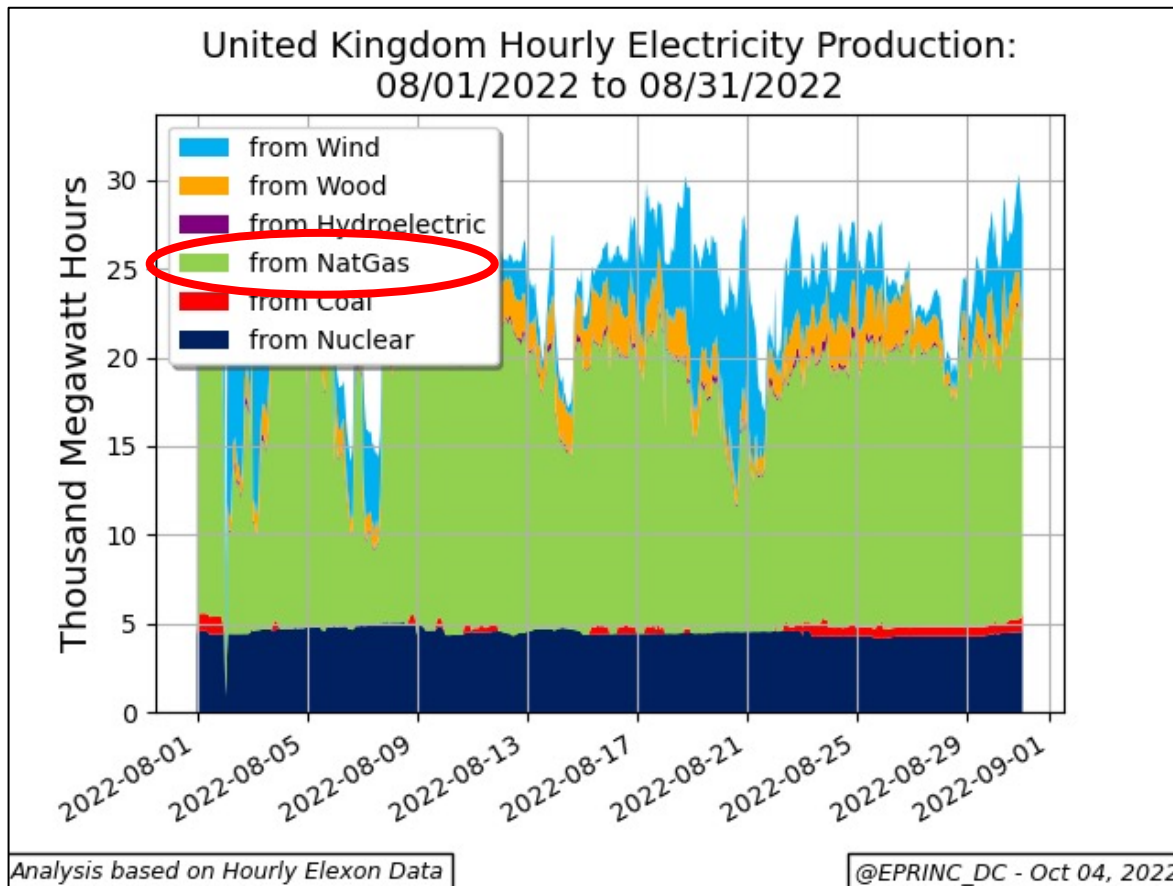


**Max Pyziur**  
**October 5, 2022**  
**Washington, DC**

# U.K.'s Electricity Generation Mix: Two Views of Hourly Generation During August 2022



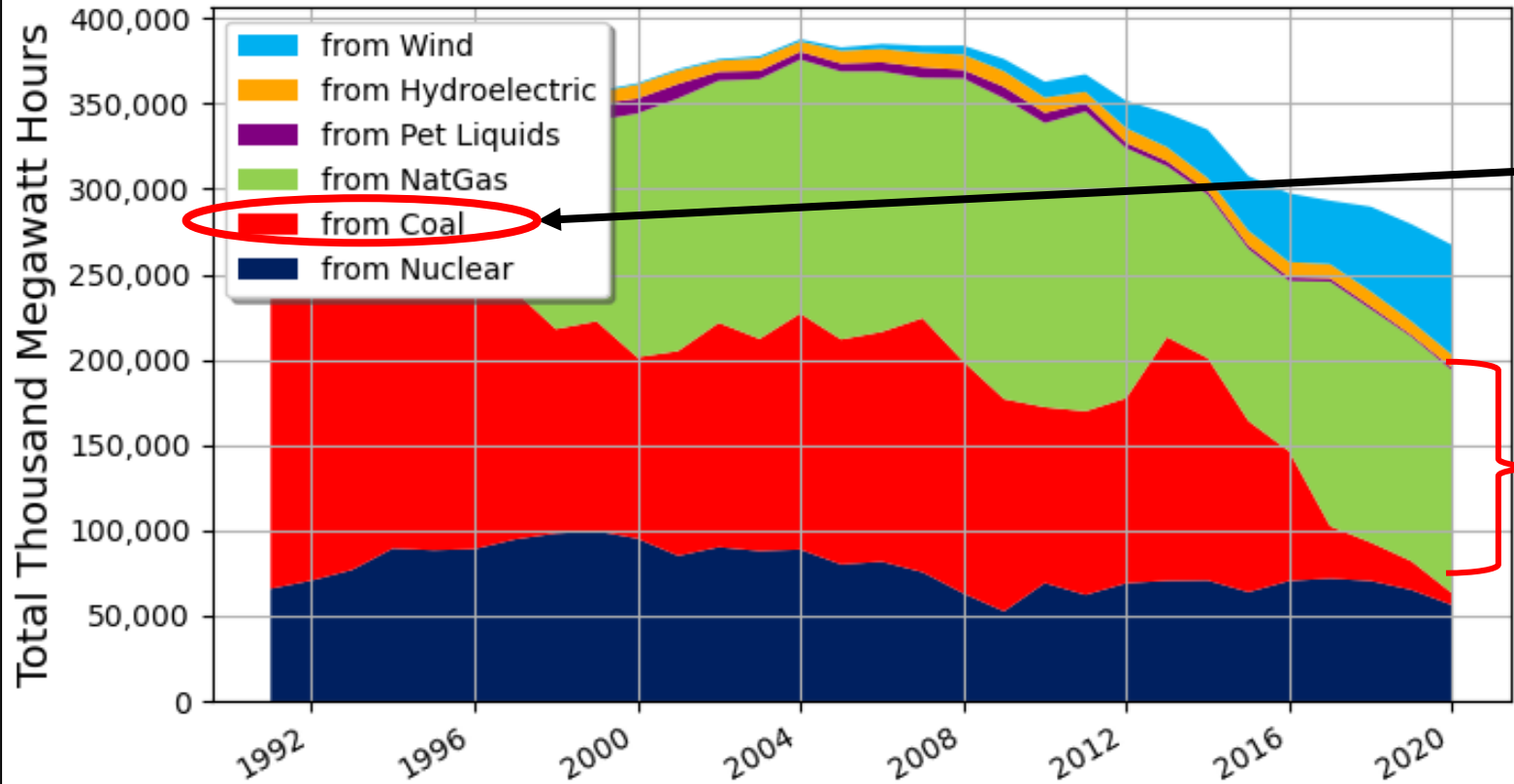
Despite efforts to install more wind generation and commission nuclear power plants, U.K.'s electricity generation mix is dominated by natural gas.



# U.K.'s Electricity Generation Mix: Annual Total Generation 1991– 2019



United Kingdom Annual Electricity Production:  
12/31/1990 to 12/31/2019



The U.K. is committed to shutting down all of its coal-fired generation by 2025. Non-GHG emitting new nuclear power generation is projected to replace the lost coal capacity.

Until a sufficient number of nuclear plants are commissioned, the U.K. is operating under its “dash for gas” policy: natural gas usage will prevail.

Analysis based on Annual Eurostat Data

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# U.K.'s Electricity Generation Mix: Some Considerations



- Since the United Kingdom's first national electricity generation authorities were established in the 1920s, coal has been the dominant fuel source.
- Beginning in the 1960s, the U.K. commissioned nuclear-powered plants; this added another significant layer of baseload generation. Combined through 2015, coal and nuclear generation have produced over 50 percent of the U.K.'s required electricity.
- In November 2015, seeking to reduce greenhouse gas emissions, governing authorities announced that all U.K. coal-fired electricity plants would be shut down by 2025. In order to replace the lost generation capacity, the U.K. has plans for eight new nuclear-powered plants. With no clear timetable for the commissioning of these facilities, the U.K. has adopted its "dash for gas" policy: natural gas will be the fuel that is used until more nuclear generating capacity is on-line.
- In addition, the first of 3,000 megawatts (MWs) of wind generation capacity was commissioned in 2008. Through 2021, another 22,500 MWs of wind generation has been added for a total of 25,500 MWs.
- During August 2022, U.K. electricity relied on natural gas for almost 60% of total generation, with wind and nuclear each producing approximately 15%.
- The expanded version of this slide deck is available at: <https://eprinc.org/chart-of-the-week/>
- For more information on this chart, please contact Max Pyziur ([maxp@eprinc.org](mailto:maxp@eprinc.org))