Renewable Energy Efforts Across New York: Levels of Effectiveness BINGHAMTON and Plans for the Future UNIVERSITY Source Project: People, Politics, and the Environment By: Alyssa Hazen STATE UNIVERSITY OF NEW YORK

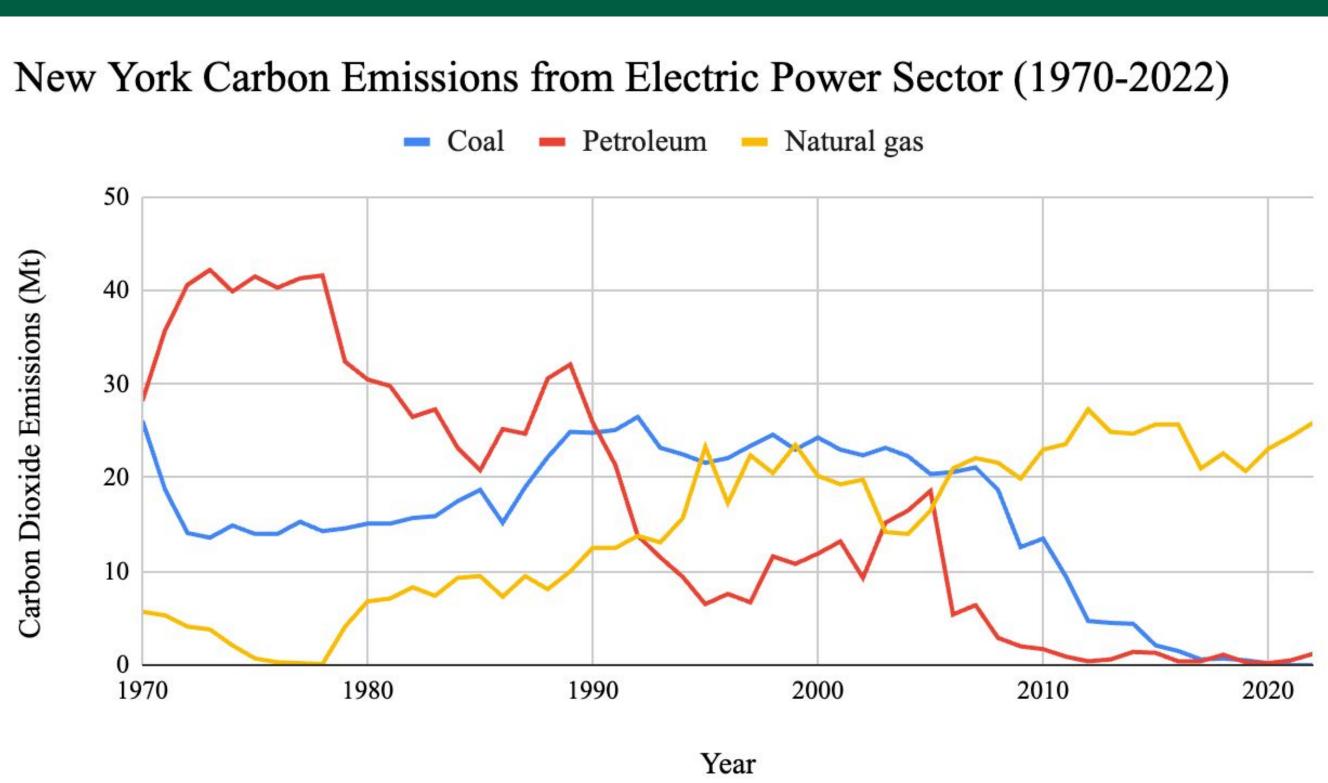
Background

- The electric power sector involves the generation, transmission, and distribution of electricity
- Across the United States, renewable energy accounted for 21% of utility-scale electricity generation in 2023
- Many states are turning to renewable energy as an alternative to fossil fuels
- Renewable and nuclear energy sources provided 51% of New York's in-state electricity generation in 2022
- In 2016, New York adopted the Clean Energy Standard (CES) which aims to achieve 70% renewably sourced electricity by 2030 and a zero-emission electric grid by 2040

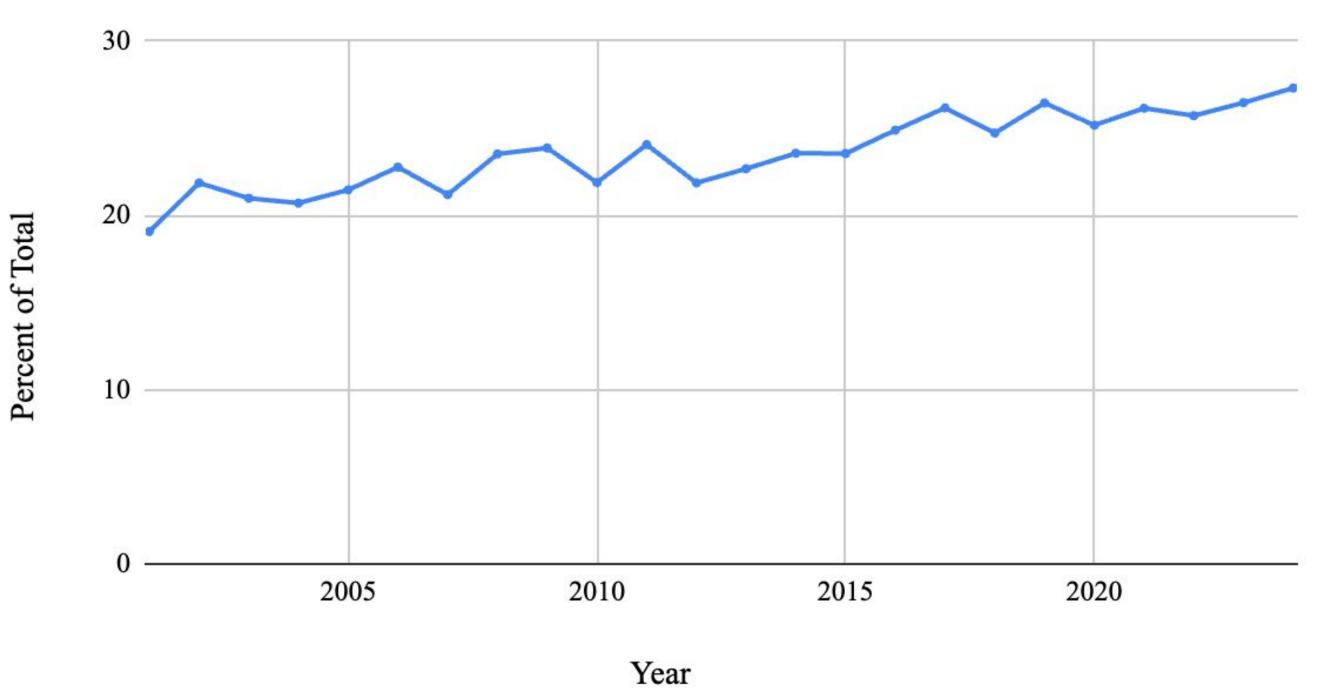
Methodology

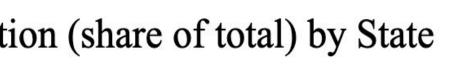
- Collect data on New York's electricity generation by renewable sources, energy-related carbon dioxide emissions, and fossil fuel usage
- Examine changes in NY's usage of renewable energy over time and identify what years significant change occurred
- Examine past policy initiatives that coincide with significant changes in data
- Analyze the success of past policy to determine the extent to which future policy plans will be successful
- Conduct literature review on Renewable Portfolio Standards (RPS) and feasibility of converting entirely to renewable energy

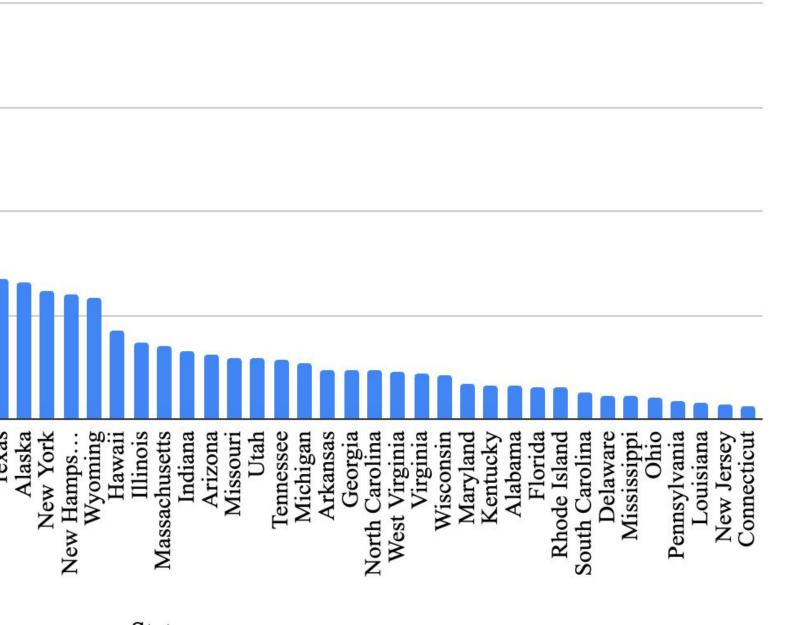
Utility-Scale Net Renewable Electricity Generation (share of total) by State Vermor Vermor Main Washingto New Mexic Idah New Mexic Orego Kansa Ransa Montan Oklahom Californi Dist. of Co Colorad Nevad Nevad Nebrask Minnesot Nebrask



Net Generation from Renewable Sources as a Percent of Total **Electric Power Generation**







- sources
- 2004
- declined

New York is unlikely to achieve the Clean Energy Standard goal of 70% renewably sourced electricity by 2030. Renewable sources including wind, hydroelectric, and solar account for only 30% of total electric power generation. Accompanied with nuclear energy, renewables total roughly 50% of electricity generation. The delay in achieving the goal is due in part by a higher electricity demand and rising project costs. By revising current plans and channeling state resources towards large projects, such as offshore wind, goals can be achieved faster.

 Findings
New York relies on renewable sources more than most other states, with almost 30% of the state's electricity generation produced by renewable

• New York has steadily increased its reliance on renewable energy as a source for electricity generation since the implementation of its RPS policy in

• New York has considerably decreased its reliance on fossil fuels as an energy source, especially coal and petroleum, but continues to rely heavily on natural gas for electricity generation • New York's carbon dioxide emissions from the electric power sector have

Conclusions

References

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