NASEO 2026 Energy Policy Outlook Conference

Grid Edge Power Supply/Demand Strategies

February 4, 2026

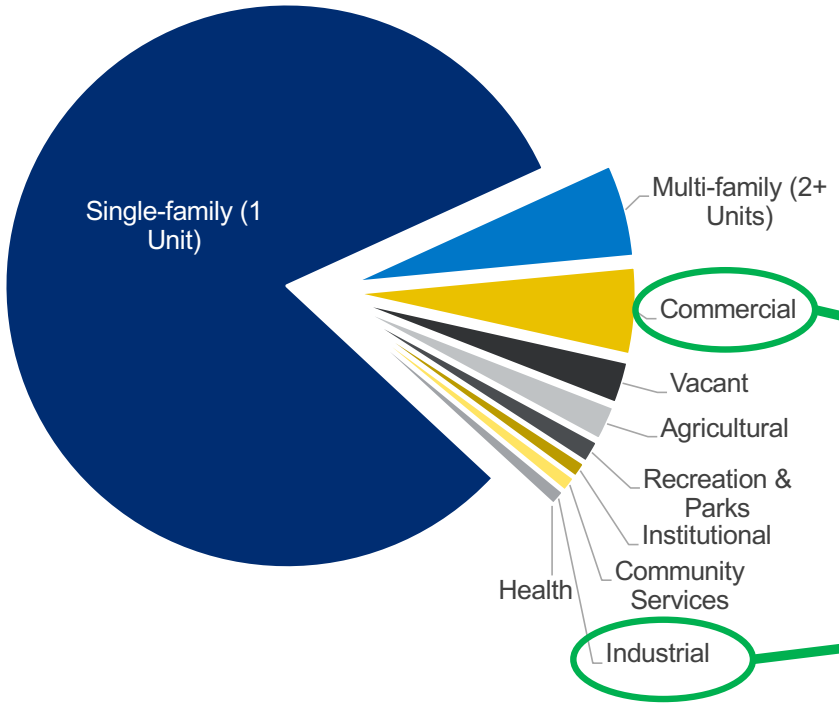
Susanne DesRoches

Senior Vice President, Clean and Resilient Buildings
New York State Energy Research and Development Authority

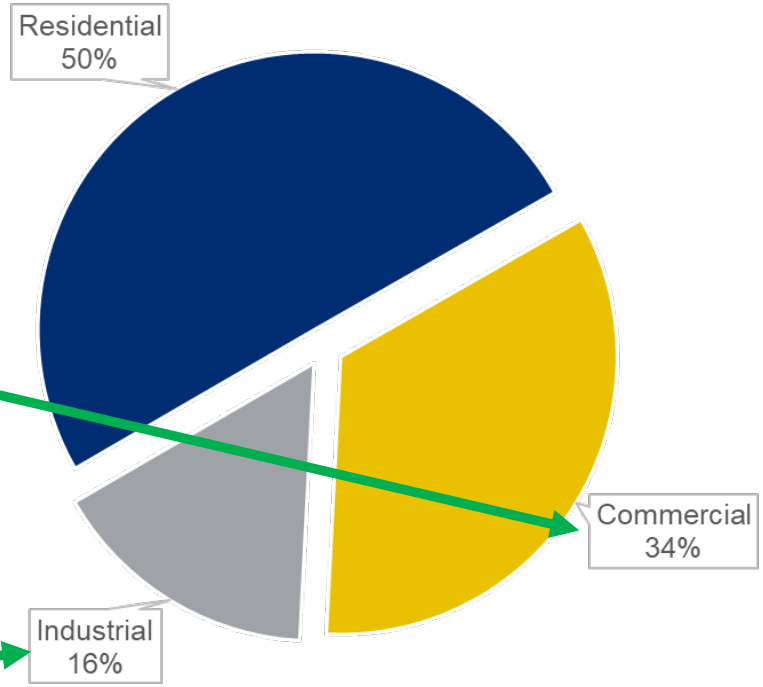
NEW YORK STATE | NYSERDA

Statewide Building Energy Use by Sector

7 Million Total Buildings



Statewide Primary Energy Consumption by Sector



Statewide estimates sourced from DSHES BILD data, retrieved 9/2/2025 and internal data from BEEM study

2023 Statewide primary energy consumption by building sector from 2025 NYSERDA Patterns & Trends report

Market Enablement Strategies

Demonstrations:

- Target buildings across the state to implement carbon reduction, electrification, or heat recovery projects
- Scale technologies for hard-to-decarbonize sectors
- Partnership with leading real estate firms, engineers, and manufacturers to demonstrate scalable low-carbon retrofits
- Accelerates private sector investment via peer learning
- Establish industry best practices

Technical Services:

- Provide objective, site specific guidance for building owners to effectively manage and utilize energy sources
- NYISO demand response program participation planning
- Load reduction and load shifting analysis

Cascades Greenpac Mill in Niagara Falls, NY
C&I Carbon Challenge Winner

Learnings and Tools for Demand Management

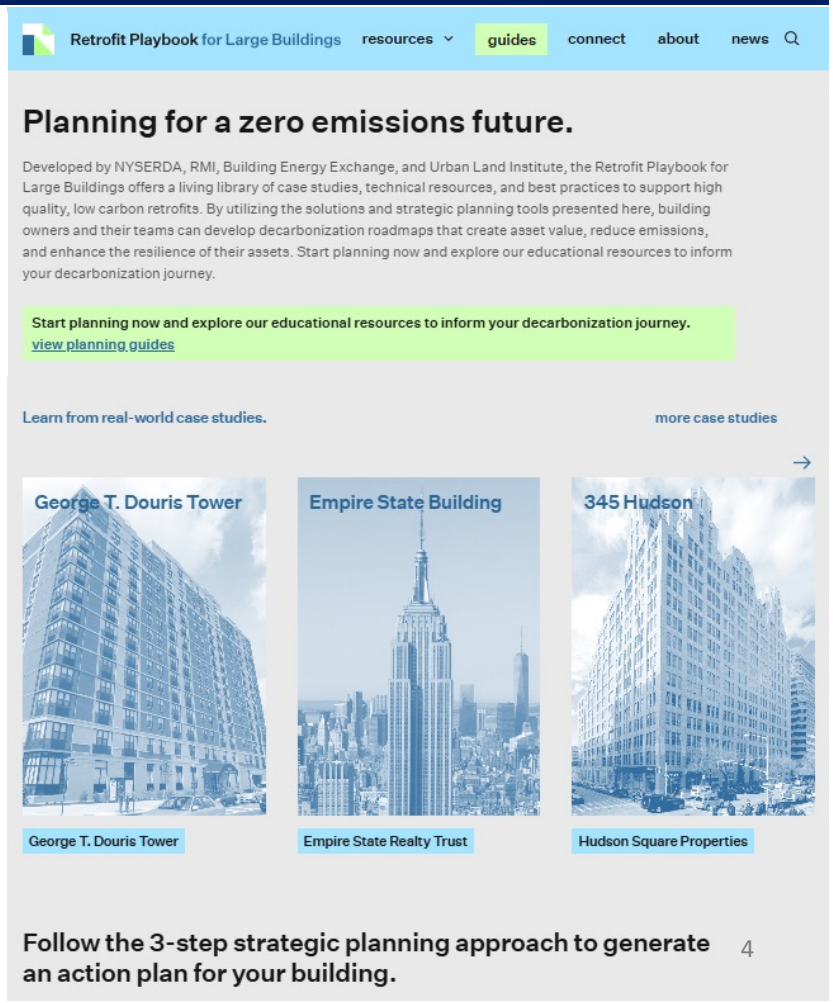
Resource Efficient Decarbonization framework for Existing Buildings

1. Reduce energy loads
2. Reconfigure systems
3. Recover heat
4. Replace equipment

Data Mining for impact

Conducting capacity assessments for decarb planning and right-sizing equipment

Electrification of process heat



Case Study: 55 Water Street

- 52-story commercial building in NYC's Financial District
- Participated in NYSERDA's Heat Recovery program in 2024
- Decarbonization through heat recovery, reducing steam usage by 77% in year one
- Leverages thermal storage
- Significant emissions reduction without a large increase in electrical demand

New York State Grid of the Future Proceeding

Ongoing three-phase collaboration process, began in 2024 and includes:

1. **Technical study** that demonstrated that there is significant potential for cost-effective, achievable grid flexibility deployment in New York (up to 8.5GW by 2040).
2. **Assessed the utility distribution plans and developed recommendations** for streamlining and improving the impact of those filings.
3. With the utilities/technology providers/program **developing a comprehensive Grid of the Future Plan** to determine the capabilities that will be needed to scaling grid flexibility in the state.

Thank you!

Contact info:

Susanne DesRoches

Susanne.DesRoches@nyserda.ny.gov

Find a NYSERDA program:

https://www.nyserda.ny.gov/All-Programs

NEW YORK STATE | NYSERDA