

NEW YORK'S CLIMATE LEADERSHIP_{and} COMMUNITY PROTECTION ACT



STATE OF NEW YORK

2019-2020 Regular Sessions

SENATE - ASSEMBLY

June 18, 2019

IN SENATE -- Introduced by Sens. KAMINSKY, HOYLMAN, ADDAS, BENJAMIN, BIAGGI, BRESLIN, BROOKS, CARLUCCI, COMRIE, GAUGHN, IS, GOUNARDES, HARKHAM, JACKSON, KAPLAN, KAVANAGH, KENNEDY, LIU, MARTINEZ, MAY, MAYER, METZGER, MONTGOMERY, MYR, PERSAUD, RAMOS, RIVERA, SALAZAR, SANDERS, SEPULVEDA, SERRA, STAVISKY, STEWART-COUSINS, THOMAS -- (at request of the C read twice and ordered printed, and when printed to be the Committee on Rules

STAVISKY, read twice and ordered printed
the Committee on Rules

IN ASSEMBLY -- Introduced by M. of A. ENGLEBRIGHT, LIFTON, CAHILL, WALKER, CARROLL, L. ROSENTHAL, THIELE, JAFFEE, DINOWITZ, WILLIAMS, ROZIC, ABINANTI, MOSLEY, BARRETT, GOTTFRIED, LUPARDO, PHEPPER AMATO, DE LA ROSA, JEAN-PIERRE, CUSICK, PEOPLES-STOKES, SEAWRIGHT, PICHARDO, WEPFIN, STERN, FERNANDEZ, D'URSO, O'DONNELL, GRIFFIN, REYES, BURKE, STIRPE, MAGNARELLI, EPSTEIN, TAYLOR, FALL, CRUZ, BRONSON, BARNWELL, DAVILA, HEVESTI, NIOU, HUNTER, M. G. DETTO, RODRIGUEZ, QUART, WRIGHT, HYNDMAN, CRESPO, SAYEGH, BARRON, PRETLOW, GUNTHER, RICHARDSON, RAYNOB, DICKENS, JACOBSON, WEINSTEIN -- Multi-Sponsored by DenDEKKER, LENTOL, NOLAN, PAULIN, RAMOS -- (at request of the Committee on Way

AN ACT to amend the environmental conservation law, the public authorities law, the labor law and the law in relation to establishing the protection act

The People of the State of New York, represented in
by, do enact as follows:

1 Section 1. Legislative findings and declaration. Th
2 by enacts the "New York state climate leadersh
3 protection act" and finds and declares that:

EXPLANATION--Matter in italica (underscored) is new
[-] is old law to be omitted.

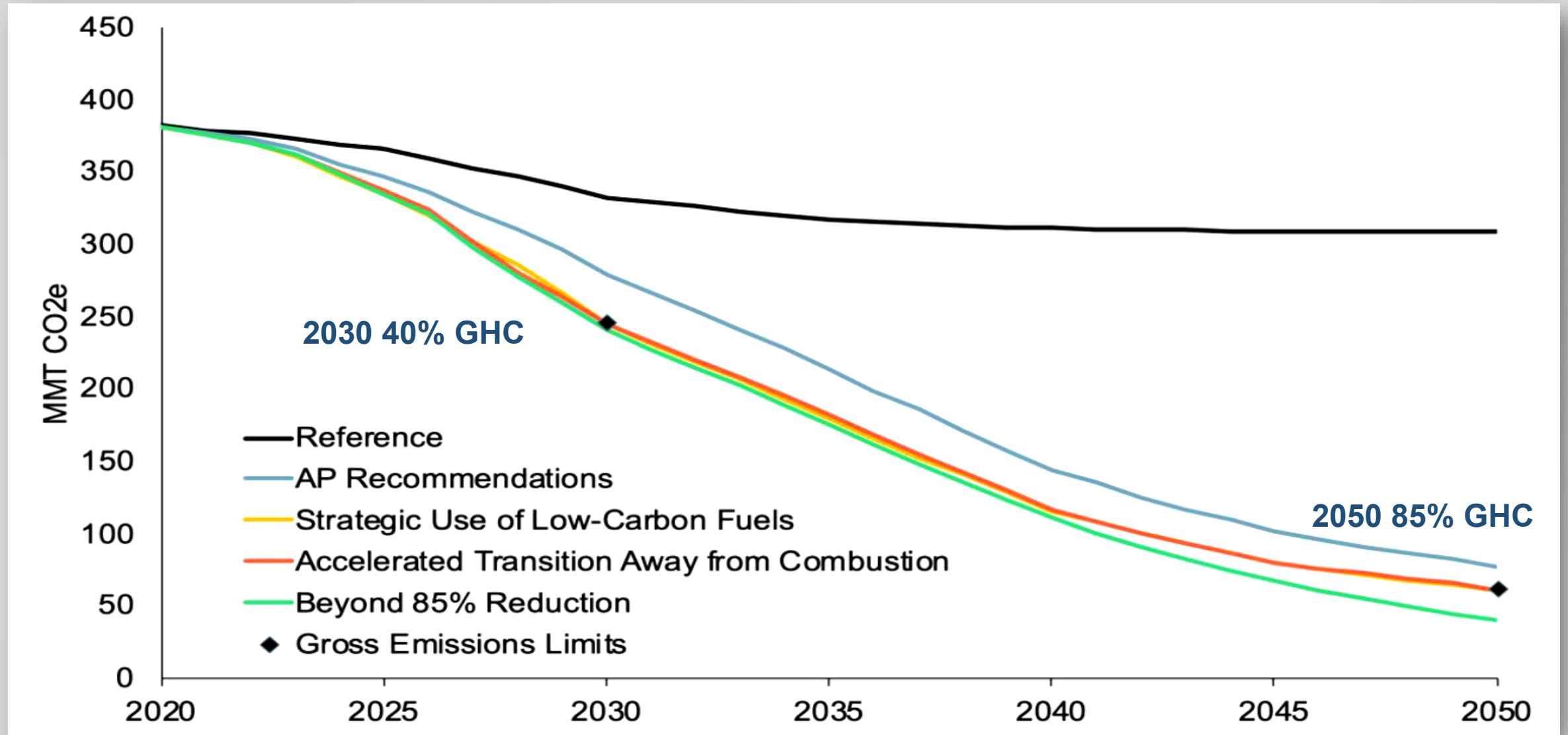
- ❑ 85% Reduction of Greenhouse Gas Emission by 2050
- ❑ 40% Reduction of Greenhouse Gas Emissions by 2030
- ❑ 185 Trillion BTU of end-use energy reduction from the 2025 forecast
- ❑ 100% Zero-Emission Electricity by 2040
- ❑ 70% Renewable Energy by 2030
- ❑ 9,000 Megawatts of Offshore Wind Power 2035
- ❑ 3,000 Megawatts of Energy Storage by 2030
- ❑ 6,000 Megawatts of Solar by 2025

Scoping Plan

- The CLPA established a **22-member Climate Action Council committee** consisting of Commissioners from State Agencies/Authorities, and Appointees who are responsible to prepare and approve a Scoping Plan.
- **The Scoping Plan is intended to detail a pathway** or pathways on how the State is to achieve the requirements of the CLCPA within the established deadlines.
- The draft of the NYS Climate Action Council Scoping Plan was recently issued and is currently **in the 120-day public comment period**.
- The final Scoping Plan is required to be **issued no later than January 1, 2023** and updated at least once every 5 years.



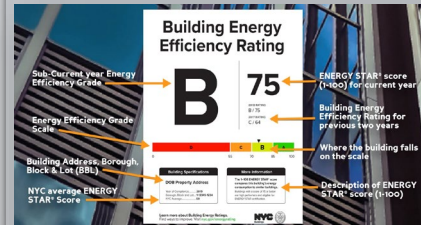
Mitigation Scenarios



Mitigation Strategies



**Adopt codes,
standards
and
regulations**



**Require
energy
bench-
marking and
disclosure**



**Transition
away from
fossil gas**



**Transition
away from
HFC
refrigerants in
equipment
and products**

Mitigation Strategy

Mitigation Strategy Summary

	Description	Action type	Emissions impact by 2050	Ease of implementation	Cost*
1	Enact enabling legislation and adopt codes, standards, and regulations to improve energy efficiency, reduce emissions, and enhance building resilience. Adopt regulations that phase out fossil fuel use in buildings, requiring energy-efficient electric heating and cooling, electric hot water heating, and electric appliances.	Legislative, regulatory, programmatic	High	Medium/Hard	\$\$\$
2	Require measuring building energy usage, benchmarking energy performance, and making that information accessible via disclosure or labeling.	Legislative, regulatory, programmatic	Low (but enables other mitigation)	Easy	\$
3	Advance a managed, phased, and just transition from reliance on fossil gas and the gas distribution system to a clean energy system, including elimination of embedded subsidies for fossil gas.	Legislative, regulatory	High (overlap with #1)	Hard	\$\$\$
4	Advance a managed and just transition from reliance on HFC use as refrigerants and in all products used in building construction.	Legislative, regulatory	High	Hard	\$\$

*Cost estimates for mitigation strategies reflect total resource costs statewide, expressed as an equivalent annualized cost. The total resource cost approach measures costs to upgrade buildings and utility infrastructure net of energy savings across all entities (public and private sector). The categories used for equivalent annualized total resource cost are: \$ (<\$250M, resources are already on hand), \$\$ (\$250M - \$1B, requires some new resources), and \$\$\$ (>\$1B, requires high degree of new resources).

Enabling Strategies



**Scale up
financial
incentives**



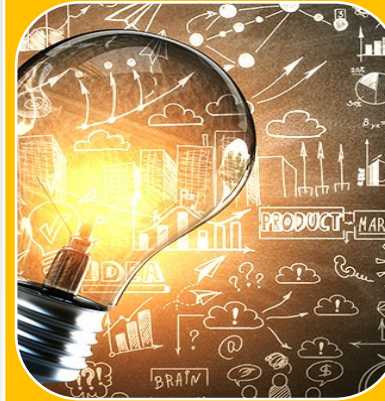
**Expand
access to
public and
private low-
cost
financing**



**Invest in
workforce
development**



**Scale up
public
awareness
and
consumer
education**



**Support
innovation**



**Reduce
embodied
carbon from
building
construction**

Enabling Strategy

Enabling Strategy Summary

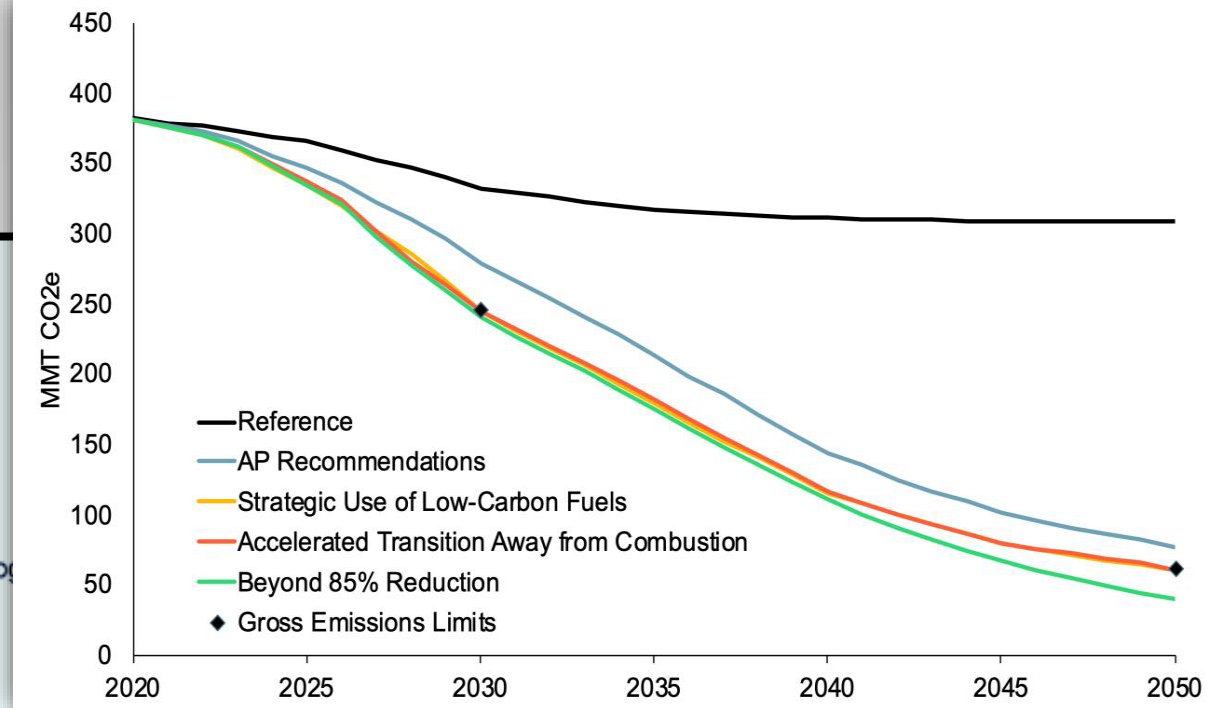
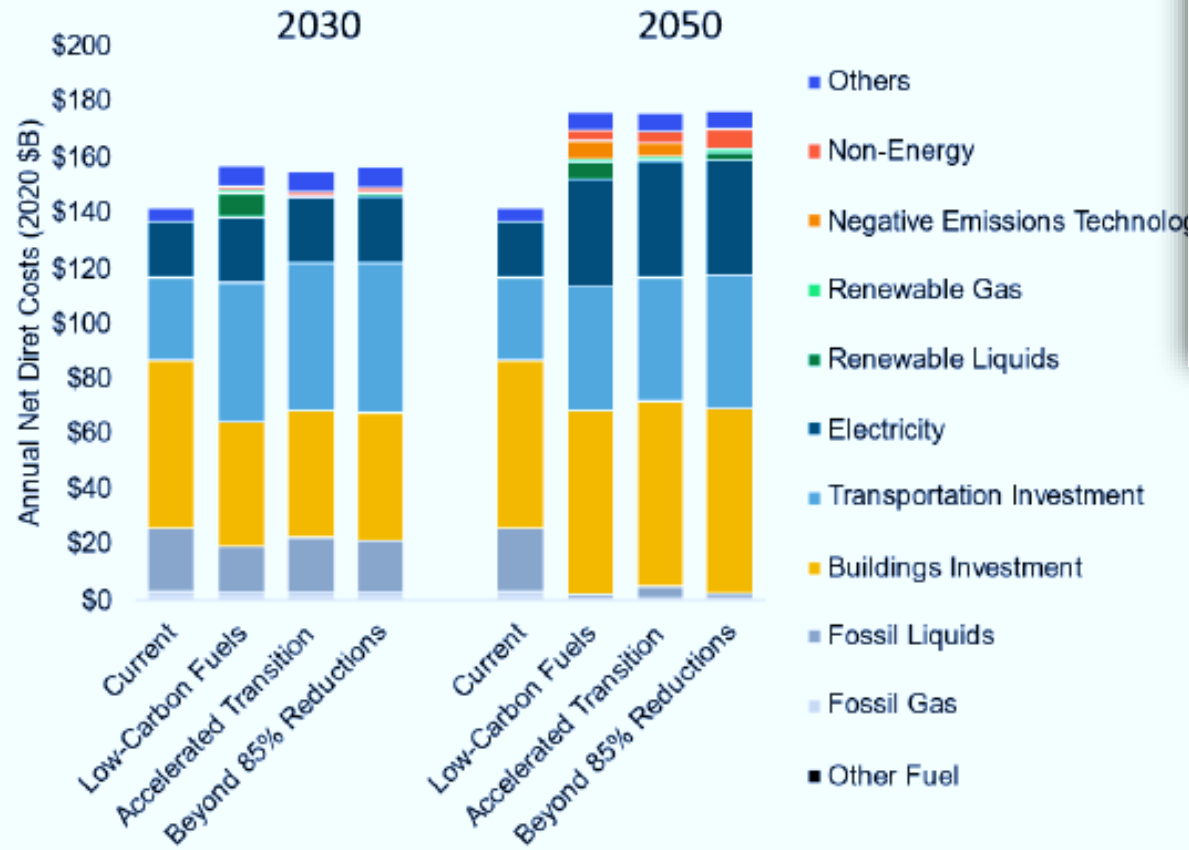
	Description	Action type	Ease of implementation	Cost*
Cross-cutting: The scale of transformation will require mobilizing private capital and a significant increase in public resources. The CAC should conduct an economy-wide analysis to identify public and private resources and funding mechanisms.				
1	Public Financial Incentives	Financial, regulatory, programmatic	Hard (given scale)	\$\$\$
2	Public and Private Low-cost Financing	Financial	Hard (given scale)	\$\$\$ + mobilize private capital
3	Workforce	Financial, regulatory, programmatic	Medium	\$\$
4	Consumer Education	Programmatic	Medium	\$\$
5	Innovation	Financial, programmatic	Easy	\$\$
6	Embodied Carbon	Financial, regulatory, programmatic	Easy	\$

Cross-cutting recommendations also address federal support, energy prices, resilience, and the importance of energy efficiency.

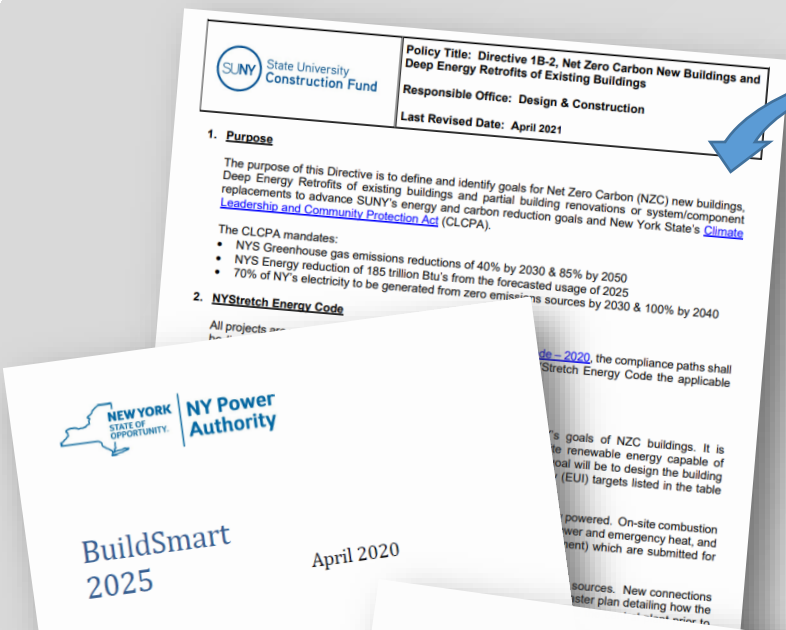
**Cost estimates for enabling strategies reflect new State resources above current levels of investment, through 2030. State investments in market enabling strategies will be needed for at least the coming decade, with ongoing State resources thereafter to support LMI households and DACs. The categories used for new State resources (through 2030) are: \$ (<\$25M, resources are already on hand), \$\$ (\$25M - \$100M, requires some new resources), and \$\$\$ (>\$100M, requires high degree of new resources).*

25

Figure 15. Annual System Expenditures in Scenarios 2-4



- Current annual expenditures related to energy are estimated to be around \$140B
- 2030 CLCPA goals requires additional expenditures of \$15B-\$20B annually
- 2050 CLCPA goals requires additional expenditures of \$34B-\$35B annually



Fund Directive 1B-2's requirements were developed and implemented to assist SUNY towards achieving the goals of the CLCPA.

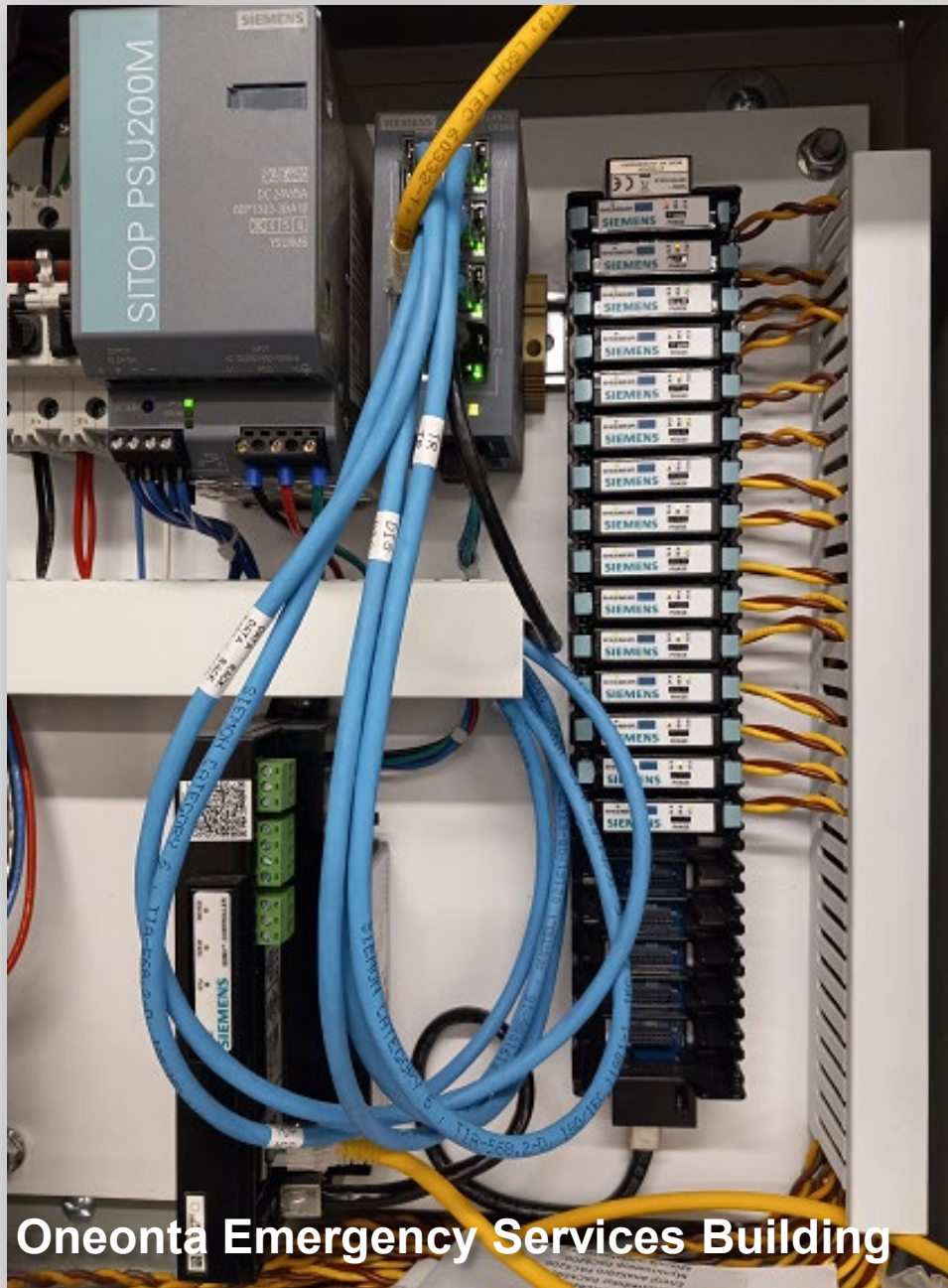
Clean Energy Master Plans required as part of NYPA's BuildSmart 2025 and NYSERDA's New Efficiency: New York will be developed over the next 2 years. The primary goals of the plans include:

1. Complete ASHRAE Level II audits to identify and recommend building upgrades and improvements;
2. Assess building and plant level efficiency improvements and load reduction strategies including beneficial electrification;
3. Assess opportunities to decarbonize electricity and heating fuel sources;
4. Provide detailed analysis and recommendations to support the university's contributions as they move towards New York State's overarching greenhouse gas and renewable energy goals;
5. Implementation Plan-develop a financially viable, realistic, and implementable multi-year and phased plan using multi-criteria scenario planning with available resources.





Oneonta Emergency Services Building



Oneonta Emergency Services Building

✓ EUI GOAL 50

✓ TRENDING EUI 46



Oneonta Emergency Services Building



Oneonta Emergency Services Building

