

New York State Energy Research and Development Authority (NYSERDA)

Leading New York's Path to a Carbon-Neutral Economy



NYSERDA

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Most Aggressive Climate Law in the U.S.

CLCPA by Numbers, Targets

Carbon neutral economy, mandating at least an
85% reduction in emissions below 1990 levels

40% reduction in emissions by 2030

100% zero-emission electricity by 2040

70% renewable electricity by 2030

9,000 MW of offshore wind by 2035

6,000 MW of distributed solar by 2025

3,000 MW of energy storage by 2030

185 TBtu on-site energy savings by 2025

Establishes Climate Action Council

- > Adopt a **Scoping Plan** of recommendations for achieving GHG limits
- > Co-chaired by NYS Department of Environmental Conservation (DEC) and NYS Energy Research and Development Authority (NYSERDA)
- > New York State Agencies:
 - Department of Transportation
 - Department of Health
 - Empire State Development
 - Department of Agriculture & Markets
 - Homes and Community Renewal
 - Department of Labor
 - Public Service Commission
 - NY Power Authority
 - Long Island Power Authority
 - Department of State
- > 2 Governor appointments
- > 3 Senate majority appointments; 1 minority
- > 3 Assembly majority appointments; 1 minority

Advisory Panels:

- transportation
- land use and local government
- housing and energy efficiency
- energy intensive industries
- power generation
- agriculture and forestry
- waste

Working Groups:

- Climate Justice Working Group
- Just Transition Working Group

Governor Cuomo's 2021 State of the State: Reimagine | Rebuild | Renew

- > Historic Renewable Energy Awards**
 - **Build Ready Progress** under State's landmark siting law
- > More than \$2 billion in transmission investments**
 - **Launch of Tier 4**
 - **Energy Storage: Almost 1,000 megawatts of contracted statewide**
- > Clean Energy Workforce Training**
 - **Offshore Wind Training Institute – 2,500 workers**
 - **Workforce and Development Training for heat pumps – 14,000 workers**
- > Climate Justice Job Corps:**
 - **Training for 150 year-long fellowships over the next three years**
- > Solar and Energy Efficiency Retrofits for 5,000 Affordable Housing Units**
 - **Raise the Green Roof program**
 - **Low interest loans from NY Green Bank**



Beacon Wind & Empire Wind 2 will Deliver Nearly

2,500 Megawatts

Public and Private Investment of
\$644 Million in NY Ports



24 Large-scale Land-based Renewable Projects Awarded to Deliver

2,200 Megawatts

Which is Equivalent to Powering Over
560,000 Homes for 20 Years

New York has made the
LARGEST
Combined Renewable
ENERGY
AWARDS
ever by a U.S. State



NYSERDA



Combined, these projects will deliver

\$14 BILLION

in Direct Investments and
8,600 GOOD-PAYING JOBS

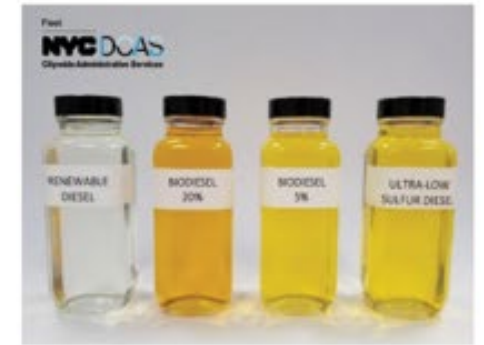
CLEAN ENERGY
PROJECTS WILL

- ✓ Stimulate New York's economic recovery from COVID-19
- ✓ Prioritize disadvantaged communities
- ✓ Create good-paying short- and long-term jobs
- ✓ Help decarbonize New York's power sector and combat climate change

Nation-leading Initiatives to Expand Electric Vehicle Use

Electrification

- Zero emission vehicles (ZEV) must take over new vehicle sales, with growth in charging/fueling access; NY targeting roughly 850,000 ZEV on road by 2025 under ZEV MOU
 - ZEV rebates; fast-charging incentives recently approved by DPS; NYPA's "EVolve Program" & \$250 million commitment
- > Reduced vehicle miles traveled (VMT) through transportation alternatives
- > Increased reliance on low-carbon/renewable fuels, particularly for medium and heavy duty
- > **2021 State of the State : Electric Transit Buses and EV Infrastructure for Public Transit**
- Electric buses for MTA, Buffalo, Rochester, Albany, Westchester and Suffolk fleets
 - MTA partnership with NREL to develop "traction power substations" for bus charging
 - NYSERDA-MTA Partnership: "Smart Battery" initiative



Innovation in New York

Fostering market transformation to drive more clean energy, energy efficiency, and resiliency

- > Promote an end-to-end ecosystem that accelerates innovation for clean tech companies
- > Identify potential barriers new materials and technologies could face on the path to commercialization
- > Has leveraged \$1.1 billion in private capital
- > More than 440 new and improved clean energy products have been supported by NYSERDA



Thank you

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