New York’s clean energy economy is continuing to expand and drive job growth through Governor Andrew M. Cuomo’s nation-leading climate plan as outlined in the New York State Climate Leadership and Community Protection Act. With nearly 159,000 clean energy jobs across the State and 8.9% job growth since 2016, New York’s nation-leading climate policies will continue to drive investment in clean energy solutions like wind, solar, energy efficiency, and energy storage, and transform the State’s energy economy for generations to come.

Report analyzes:
> clean energy jobs
> geographic distribution
> employer needs
> worker sentiment

CLEAN ENERGY EMPLOYMENT BY TECHNOLOGY
(number of jobs, December 2018)

- **Energy Efficiency - Largest Sector**: 123k
  - Energy efficiency technologies are commercially available throughout the State. Includes lighting, ENERGY STAR® appliances (including HVAC), insulation, advanced building materials, renewable heating and cooling, and other efficient technologies.

- **Renewable Electric Power Generation - Backed by Solar Market**: 22k
  - Includes solar, wind, geothermal, low-impact hydropower, and other renewable generation technologies.

- **Alternative Transportation - Growing Rapidly**: 8.6k
  - Includes electric, hybrid, plug-in hybrid, and fuel cell/hydrogen vehicles, natural gas and other alternative fuel buses, and transportation storage.

- **Renewable Fuels - 2.5% Growth**: 2.6k
  - Includes biofuels such as wood pellets and ethanol.

- **Grid Modernization and Storage - Fastest Growing at 35%**: 2.1k
  - Includes smart grid, microgrid, demand response management, and energy storage.

**159k**
clean energy jobs in 2018 across New York State

**7.2k**
new clean energy jobs in 2018 employers expect to hire 12,000 more in 2019

**8.9%**
growth of clean energy jobs since 2016 double the statewide average
Clean Energy jobs exist in various types of companies, many of which are small businesses that serve local communities and pay competitive wages. Workers from all counties across the State are involved in clean energy activities. New York, Albany, Warren and Wayne counties showed the highest concentration of clean energy workers in the labor force.

In 2018, grid modernization and energy storage had the highest growth rate—35%—of any clean energy sector.

Clean energy workers enjoyed wage premiums of 12%–32% for entry-level and mid-range skill levels as compared to other industries. About 70% of clean energy employees received healthcare, retirement, and paid vacation.

Energy Efficiency accounts for 78% of the clean energy jobs across the State.

68% workers involved in installation, maintenance or repair jobs.

Job growth patterns indicate a maturing clean energy market.

1.2 GW NY-Sun pipeline promises to drive ongoing construction jobs.

Clean Energy job training programs support expanding industries.

Read the 2019 New York Clean Energy Industry Report at nys erda.ny.gov/clean-energy-jobs

The New York Clean Energy Industry report tracks and analyzes data on clean energy jobs, geographic distribution, and employer needs, to produce useful policy recommendations that meet New York State’s climate goals and create jobs and economic opportunity across the State.
