This year’s report, focusing on data from the end of 2020, shows New York lost approximately 6,000 clean energy jobs amidst the COVID-19 pandemic. This represents the first employment decline since this annual reporting series began in 2015. However, New York’s clean energy industry fared better than in neighboring states, as well as compared to the overall statewide economy. Amid the pandemic, New York made modest employment gains in key sectors, including wind energy, clean and alternative transportation, energy storage, and grid modernization. Despite the challenges COVID-19 introduced, New York continues to advance the ambitious goals laid out by its Climate Leadership and Community Protection Act, positioning the clean energy industry to be a cornerstone for economic recovery.

CLEAN ENERGY JOBS IN NEW YORK

<table>
<thead>
<tr>
<th>Year</th>
<th>Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>140,964</td>
</tr>
<tr>
<td>2016</td>
<td>145,778</td>
</tr>
<tr>
<td>2017</td>
<td>151,464</td>
</tr>
<tr>
<td>2018</td>
<td>158,744</td>
</tr>
<tr>
<td>2019</td>
<td>163,754</td>
</tr>
<tr>
<td>2020</td>
<td>157,686</td>
</tr>
</tbody>
</table>

CLEAN ENERGY EMPLOYMENT BY TECHNOLOGY

(number of jobs, December 2020)

- **Energy Efficiency** - 5% job decline*  
  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** - 3% job decline*  
  Includes solar, wind, geothermal, low-impact hydropower, and other renewable generation technologies.

- **Clean and Alternative Transportation** - 5% growth*  
  Includes electric, hybrid, plug-in hybrid, and fuel cell/hydrogen vehicles, natural gas and other alternative fuel buses, and transportation storage.

- **Renewable Fuels** - Held steady*  
  Includes biofuels such as wood pellets and ethanol.

- **Grid Modernization and Energy Storage** - 1% growth*  
  Includes smart grid, microgrid, demand response management, and energy storage.

*Compared to 2019 numbers.

more than
157k

clean energy
jobs in 2020

across New York State

5k

clean energy
jobs restored
since COVID-19
re-opening in
May 2020

as of August 2020
NEARLY 500 CLEAN ENERGY TRAINING PROGRAMS ACROSS NEW YORK will increase technical skills and experience to help reduce hiring challenges identified by employers. These opportunities to re-skill or up-skill empower clean energy workers with the knowledge and experience needed to drive economic recovery and help New York build back better and greener. Online programs are broadening the geographic reach of quality workforce development opportunities. To sustain the growth trajectory of New York’s green economy, NYSERDA has committed $108 million to support the creation of a clean energy workforce pipeline and provide new training opportunities for new and existing workers.

Overall, job losses in the clean energy sector accounted for less than 1% of total economy-wide employment declines in the State.

Industry surveys and executive interviews provide deep dives into the opportunities and challenges in key emerging technology and policy areas:

- Offshore Wind Occupations
- Alternative Transportation Supply Chain In New York
- Employer Diversity, Equity, and Inclusion – Priorities, Programs, and Policies
- Priority Populations and New York’s Clean Energy Sector

Read the 2021 New York Clean Energy Industry Report at nyserda.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 insights that will help New York State meet its climate goals and create jobs and economic opportunity across the State.