



# CLEAN ENERGY R&D AND MANUFACTURING



## ALBANY/NEW YORK'S CAPITAL REGION

New York's Capital Region has been shaping the nation's power landscape for more than a century, dating back to the first steam generator at General Electric's Schenectady plant in 1901.

Now, **Plug Power** is making hydrogen fuel cells and **GE Vernova** is manufacturing onshore wind tower components and hydrogen-cooled generators. In addition to developing software for electric vehicle (EV) charging stations, **Lynkwell** manufactures them at a facility in Rotterdam. And **Sabic** is manufacturing resins used for EV charging stations and EV battery packs. At the same time, startups such as **Pallidus**, **Key Capture Energy** and **Wright Electric** are leading innovations for silicon carbide (SiC) power electronics, utility-scale lithium-ion batteries, and electric airplanes, respectively.

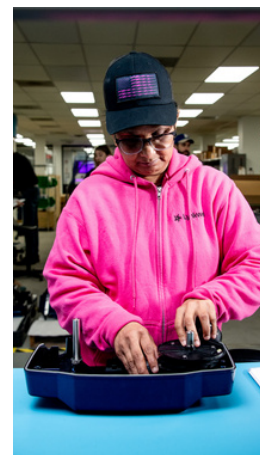
Backed by world-class R&D capabilities at **GE Vernova's Advanced Research Center** and renewable energy laboratories at the **University at Albany** and **Rensselaer Polytechnic Institute**, the region's Clean Energy Cluster is a green economic engine. Offshore wind component manufacturing capabilities are also available at the **Port of Albany** and **Port of Coeymans**.

## REGIONAL GROWTH

- 1.1M Population
- #1 Net gain in young adults (18-35) statewide since 2020
- 9% Tech R&D and 6% MFG 5-year job growth
- \$1.4B in annual business R&D spending – 2<sup>nd</sup> most in NY

## THIRD

FASTEST-GROWING MFG  
GDP IN NORTHEAST



## TALENT PIPELINE

**22** COLLEGES & UNIVERSITIES

**30+** ENGINEERING RELATED  
PROGRAMS

**20,000** DEGREES AWARDED  
*Including 4,000 in STEM*

**3,998** JOBS (2024)

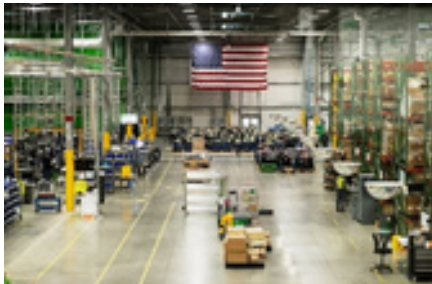
4<sup>th</sup> Most jobs in Northeast in Turbine and Turbine Generator Set Units Manufacturing (1,666)\*

5<sup>th</sup> Most jobs in Northeast in All Other Miscellaneous Electrical Equipment and Component Manufacturing (1,458)\*

\* Albany-Schenectady-Troy, NY MSA

# INDUSTRY ASSETS

## MANUFACTURING AND R&D



GE VERNOVA



Lynkwell



## STARTUP COMPANIES



ENERGY CATALYST  
GROUND BREAKING CLEAN HEAT



FREE FORM  
FIBERS



KEY CAPTURE  
ENERGY



ORION



pallidus



standard  
hydrogen  
corp.



Wright

## SUPPLY CHAIN

### ADVANCED MATERIALS

Ames Goldsmith  
Ecovative  
Free Form Fibers  
James Cropper Advanced Materials  
Orion Polymer  
Pallidus  
Starfire Systems

### PARTS, COMPONENTS, SENSORS

Electronic Coating Technologies  
Energy Hardware  
MTI Instruments/Vitretek  
Outage Technology Solutions

### PUMP SYSTEMS

Energy Catalyst  
Environmental One  
Ludlow Electromechanical Hardware

### CHARGING STATIONS (EV, HYDROGEN)

Lynkwell  
Standard Hydrogen Corp.

### SOFTWARE SOLUTIONS

Ecolong  
Kitware  
WRI Energy



CENTER for  
ECONOMIC  
GROWTH

The Center for Economic Growth (CEG) leads business attraction and expansion activities for Albany/NY's Capital Region. Our team can provide assistance with site selection, incentive coordination, market research, access to workforce, supply chain connections, and more.



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