



# 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

## TALENT PIPELINE

**22** COLLEGES & UNIVERSITIES

**30+** ENGINEERING RELATED PROGRAMS

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

## THIRD

FASTEST-GROWING MFG  
GDP IN NORTHEAST



**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 VEROVA

 Lynkwell

 mtrinstruments  
By VITREK

 plug™

 PORT OF ALBANY

 PORT OF COEYMAN'S  
Connecting the world to the Northeast

 SOLUNA

 سabic

## STARTUP COMPANIES

 ENERGY CATALYST  
GROUNDBREAKING CLEAN HEAT

 FREE FORM  
FIBERS

 KEY CAPTURE  
ENERGY

 ORION

 pallidus

 standard  
hydrogen  
corp.

 Wright

 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.

## 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/Vitrek  
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



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