

Title: Southern Tier Clean Tech Corridor Initiative

Geography: Broome, Chemung, Chenango, Delaware, Schuyler, Steuben, Sullivan, Tioga, and Tompkins Counties (additional partners located throughout New York State will be considered to participate based on potential contributions to the industry cluster.

Purpose: To develop a regional economic ecosystem leveraging the various academic, industry, and site-specific assets in an 8-9 county region in New York State's Southern Tier; located along Interstate 86.

Strategic Objective: To identify and position the region for significant private sector investment in next generation technologies in clean tech manufacturing, clean energy production and supply chain opportunities in this field.

Targeted Sectors: Clean Energy Production and Storage, Clean Tech Manufacturing, Carbon Neutral Semi-Conductor Manufacturing and Supply Chain

Situational Analysis: As climate change impacts weather around the globe the United States is making unprecedented investments into clean energy technology to achieve net-zero carbon emissions by 2050. The passage of the Inflation Reduction Act (IRA) makes significant investments in clean energy and climate mitigation and resilience to help drive the global clean energy economy forward.

In 2022 the United States was ranked third globally in low carbon spending at \$141 billion with China leading the globe with \$546 billion invested and the European Union being second at \$180 billion. The IRA looks to establish the United States as the new global leader by incentivizing domestic production of clean energy technologies, promote domestic sourcing of in the clean energy economy.

Regional Strengths: The Southern Tier region is already a state leader in the clean energy economy with unique assets in New York State, including anchor companies in transportation manufacturing with companies including Alstom, Amphenol Aerospace, BAE Systems, Borg Warner, CAF, Corning, Inc., Lockheed Martin, and the Raymond Corporation. Each of these companies are committed to reducing their carbon footprint and investing in future clean energy technologies.

The region also has nationally recognized academic, and R-1 research universities including Binghamton University, Cornell University, and research in the ceramics sector through Alfred University. Additionally, there are significant workforce development and training assets through Broome, Corning, and Tompkins Community Colleges. These academic institutions have successfully implemented and manage a vibrant start-up ecosystem and incubator facilities including the Koffman Incubator in Binghamton, IncubatorWorks in Corning, Rev in Ithaca, and the Smart Energy complex at Binghamton University. The region is also home to Dr. M. Stanley

Whittingham of Binghamton University, part of a Nobel Prize winning research team that developed the lithium-ion battery.

Most recent wins include the \$63 million Regional Build Back Better Award to the New Energy New York coalition led by Binghamton University (matched by \$50 million in NYS funding). NENY will position the region as the center of activity for battery manufacturing and R&D. Binghamton University also supports the Center for Advanced Technology (CAT) in Microelectronics Manufacturing (CMM) that creates industry-academic partnerships to support the growth of nanotechnology in the region and state.

Binghamton is also a semi-finalist in the National Science Foundation's Regional Innovation Engines program, and if successful, will receive \$160 million to support and attract energy storage manufacturing and supply chain companies, as well as support the growth of the semiconductor ecosystem north of the region, along the New York State Thruway communities including Buffalo, Rochester, Syracuse and the Mohawk Valley.

The Southern Tier also generates the most renewable power in New York State through its wind and solar assets. Between 2018 and 2022, the regions generation capacity grew by 1,505 MW with over \$1 billion being invested in the region just this past year. Steuben County leads the region in investment and generation with 500 MW of generation already producing and an additional 832 MW of projects slated for construction in the next 5 years.

In addition to wind and solar development Steuben County leads the region in new clean energy technologies including the State's only landfill gas recovery project which will deliver grid compliant RNG, producing a renewable substitute for fossil-based natural gas. Steuben County is also realizing investments in hydrogen fuel production with recent letters of intent signed to develop the region's hydrogen production facility..

Assistance Needed: The region is seeking assistance to examine its characteristics relative to the development of a long-term economic development strategy to attract investment in the clean energy and clean tech sectors. The situational analysis should perform a sector shift analysis to determine how the regions industries are evolving relative to clean energy and clean technology development. The work should also look at the region's existing site development assets to establish a strategy for the attraction of new investment into the area.

Phase I of the work should include:

- ⇒ Clean Energy and Clean Tech Industry Growth Potential Analysis
- ⇒ Existing Industry Meeting Facilitation to Determine Asset Inventory
- ⇒ Regional SWOT Analysis as it relates to Clean Energy and Clean Tech Opportunities
- ⇒ Infrastructure Site Profile
- ⇒ Site Profile
- ⇒ Additional assistance as identified

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