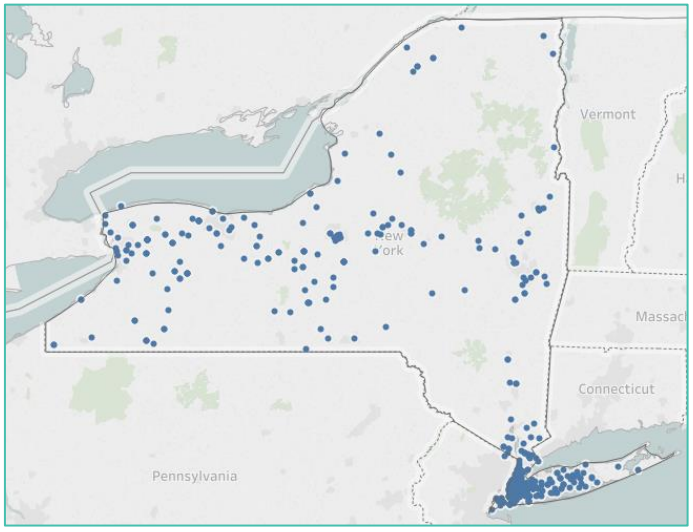
Combined Heat and Power (CHP) Snapshots – New York

NY-NJ CHP Technical Assistance Partnership (TAP) Quick Facts

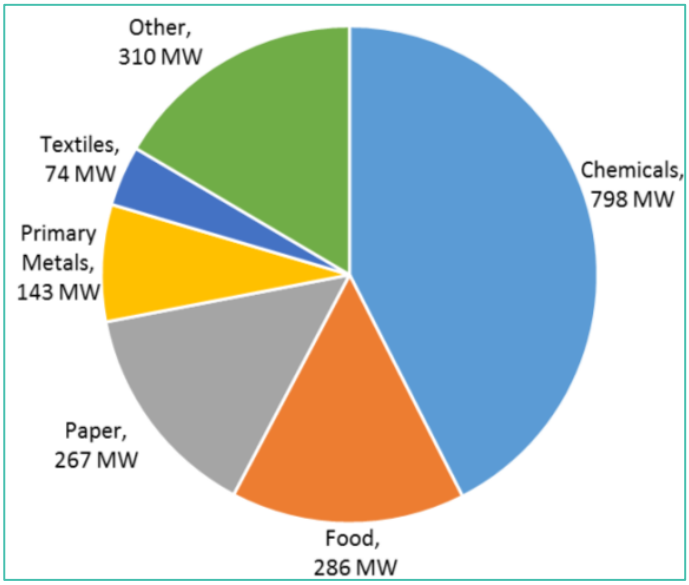
- The New York-New Jersey CHP TAP works with regional partners to promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies.
- The New York-New Jersey CHP TAP serves the two Mid-Atlantic states of New Jersey and **New York**.

State	Number of Current Sites	Total CHP Capacity (MW) Deployment	Number of Potential Sites	Total CHP Technical Potential (MW)	CHP TAP Activities (2014-2017)		
					Technical Assistance	End-User Education	Policymaker Education
New Jersey	238	3,115	8,649	3,796	42	8	33
New York	**631**	**5,591**	**16,901**	**10,818**	**180**	**17**	**30**
Total	869	8,706	25,550	14,614	222	25	63

New York CHP Installations



CHP Technical Potential by Industrial Sector



New York CHP Project Snapshots

- **South Oaks Hospital (Amityville, NY)** – South Oaks Hospital on Long Island has experienced significant energy cost savings and reliability benefits from their 1.3 MW CHP system. During the 2003 blackout, South Oaks never lost power and was able to remain grid-isolated for 5 days, while the surrounding area lost power. Again, during Superstorm Sandy, the CHP system provided 100% of power needs, allowing the facility to keep medications and food in freezers and refrigerators, provide service to patients from other facilities, and serve as a community center during the storm.
- **Gurwin Jewish Nursing & Rehabilitation Center (Commack, NY)** – This 460-bed and 200-apartment assisted living facility in Commack, NY installed a 450 kW CHP system in 2010. The system, which runs continuously year-round, provides reliability benefits to the campus as well as energy savings of nearly $375,000 per year. The realized annual energy savings led to a simple payback period of only three years.

Testimonials from CHP TAP Beneficiaries in the NY-NJ Region

"At one of Corning Incorporated's production sites, NYSEG power lines max out at 4.8MW deliverable to the site. With workload growth at the site, there was a growing need for additional power, creating an approximate load of 7MW. CHP was investigated to make up the difference. One of the major reasons for its selection was the excellent use of combined heat and power's thermal output. As a result of being able to bring more power to the site, Corning will be able to increase its employment levels of good paying jobs. "

Patrick Jackson, Director of Global Energy
Corning, Inc.
Corning, NY

"PSE&G has collaborated in the past with Mr. Gearoid Foley of the US DOE's CHP Technical Assistance Partnership and has developed a positive working relationship over the past seven years. PSE&G has relied on Mr. Foley as an unbiased expert on CHP technologies, applications and policy matters. PSE&G sincerely appreciates the technical and policy education support provided by the TAP in the past and strongly supports [the NY-NJ CHP TAP's] efforts. The Coalition looks forward to further cooperation with the CHP TAP and values its contribution to our goal of establishing resilient clean energy systems in New Jersey."

Public Service Electric and Gas Company
Newark, NJ

New York-New Jersey CHP TAP Contact:

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[1] U.S. DOE, December 2016, "Combined Heat and Power Installation Database" (https://doe.icfwebservices.com/chpdb/).
[2] U.S. DOE, March 2016, "Combined Heat and Power (CHP) Technical Potential in the United States" (https://energy.gov/eere/amo/downloads/new-release-us-doe-analysis-combined-heat-and-power-chp-technical-potential).