



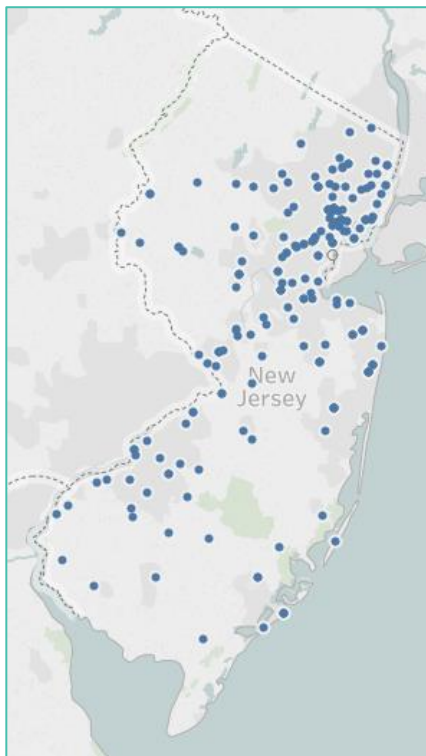
## Combined Heat and Power (CHP) Snapshots – New Jersey

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

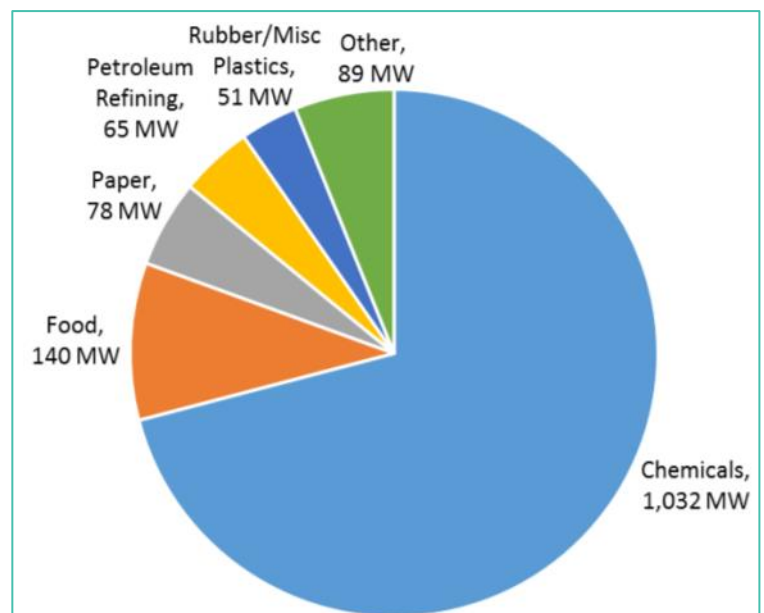
- The New York-New Jersey CHP TAP works with regional partners to promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies.
- The New York-New Jersey CHP TAP serves the two Mid-Atlantic states of **New Jersey** and New York.

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 Jersey CHP Installations



### CHP Technical Potential by Industrial Sector





## New Jersey CHP Project Snapshots

- ◆ **Princeton University (Princeton, NJ)** – The heart of Princeton's microgrid is a gas turbine CHP system capable of producing 15 MW. When Princeton's microgrid can make power at a lower cost than the utility, the system runs to meet as much of the university's electricity needs as possible. When Princeton's microgrid generates more than the university can use and the price of power on the utility grid is high, the system exports power to earn revenue and help lower the net price of power for all other grid participants. The CHP system also provided heat and power to critical operations during and after Hurricane Sandy, while much of the state was without power.
- ◆ **Masonic Village Senior Living Facility (Burlington, NJ)** – Commissioned in 2016, The Masonic Charity Foundation of New Jersey installed a 498 kW CHP system to provide energy-efficient power and resiliency to its Burlington, NJ senior living facility. Through a financing partnership with ENER-G Rudox Inc., the system was designed and constructed with no capital costs to the charity and is expected to result in annual energy savings of \$209,000.

## Testimonials from CHP TAP Beneficiaries in New Jersey

"The New Jersey BPU has benefitted from the collaboration with the NY-NJ CHP TAP and has developed a positive working relationship over the last several years. The technical assistance and educational assistance [the NY-NJ TAP] has provided has facilitated well designed and operated CHP systems and has helped deepen our understanding of the benefits of CHP and microgrids."

*New Jersey Board of Public Utilities  
Trenton, NJ*

"Over the years, our team established a good working relationship with Mr. Gearoid Foley of the US DOE's [NY-NJ] CHP TAP and relied on his unbiased expertise on CHP technologies, applications and policy matters. We sincerely appreciate the technical and policy education support provided by the CHP TAP and value [their] contributions to our goal of establishing resilient, clean energy systems in our service territory and intend to continue to leverage the technical assistance available from the CHPTAP to assist educating our customers on CHP, as well as the benefits it provides."

*New Jersey Natural Gas  
Wall Township, NJ*

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<sup>1</sup> U.S. DOE, December 2016, "Combined Heat and Power Installation Database" (<https://doe.icfwebservices.com/chpdb/>).

<sup>2</sup> 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>).