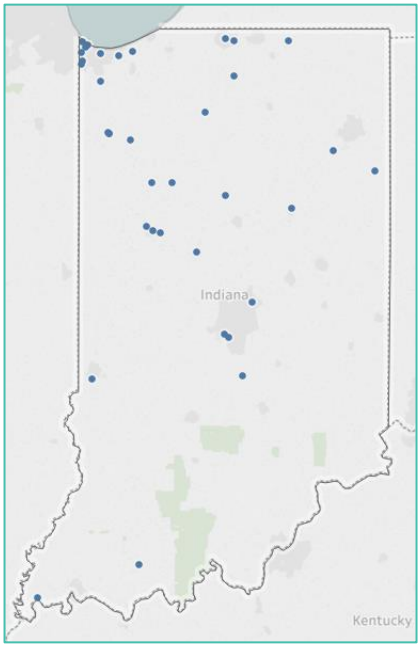
Combined Heat and Power (CHP) Snapshots – Indiana

Midwest CHP Technical Assistance Partnership (TAP) Quick Facts

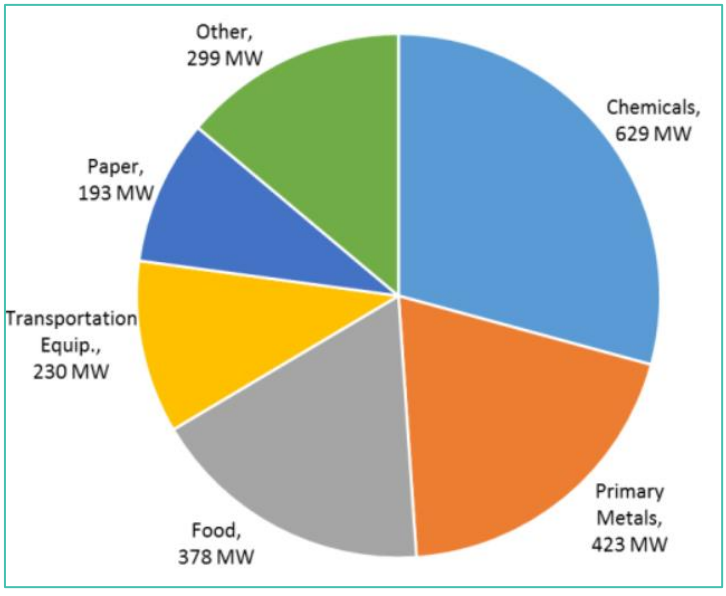
- The Midwest CHP TAP works with regional partners to promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies throughout the midwestern region of the U.S.
- The Midwest CHP TAP serves the states of Illinois, **Indiana**, Michigan, Minnesota, Ohio, and Wisconsin.

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
Illinois	125	1,232	13,717	7,464	73	55	23
Indiana	**37**	**2,457**	**7,273**	**4,610**	**13**	**14**	**7**
Michigan	87	3,382	10,370	4,987	19	16	9
Minnesota	56	1,003	6,326	4,310	30	18	17
Ohio	65	532	13,194	7,288	31	20	13
Wisconsin	98	1,619	7,008	3,474	9	7	2
Total	468	10,225	57,888	32,133	175	130	71

Indiana CHP Installations



CHP Technical Potential by Industrial Sector



Indiana CHP Project Snapshots

- **SABIC Innovative Plastics (Mount Vernon, IN)** – To provide power to its largest U.S. manufacturing center employing over 1,000 people, SABIC installed an 86.5 MW CHP system in 2014. The system provides 80% of the plant's electricity and as much as 90% of its steam needs. In addition, SABIC built a 30-mile pipeline to connect the Mount Vernon site with a Texas Gas Transmission pipeline, allowing the CHP system to operate on natural gas. The investment in CHP has greatly increased the operational efficiency of the facility and will provide a reliable source of low-cost steam and electricity for years to come.
- **Cokenergy (East Chicago, IN)** – Cokenergy installed a 95 MW CHP system in 1998 to recover heat from the coke-making process at one of the largest steel manufacturing facilities in the country. Waste heat is recovered to create steam, which supplies a portion of the plant's process heating needs and generates electricity using a steam turbine. The CHP system offsets 50% of the plant's steam needs and allows the Cokenergy facility to meet 25% of its electricity requirements with fuel-free electricity, resulting in significant energy cost savings.

Testimonials from CHP TAP Beneficiaries in Indiana

"[The Midwest CHP TAP's] Center has served as a valuable entity to the Midwest Region in promoting the development of combined heat and power (CHP) by providing unbiased education and outreach, market development, and technical assistance to a variety of stakeholders through the U.S. DOE's regional Technical Assistance Partnership (TAP) over the past several years, and prior to the TAPs, as the Midwest Clean Energy Application Center (CEAC). Please know that these services have greatly benefited our organization as well as our customers companies and institutions."

Karl Stanley, Vice President, Commercial Operations
Northern Indiana Public Service Company (NIPSCO)
Merrillville, IN

"One of our customers with a 10+ MW average demand was able to take advantage of the partnership we have established with the US DOE Midwest CHP TAP. Through this partnership, our customer was able to receive a no-cost assessment investigating the CHP option as they explored a holistic approach to meeting their future energy needs. The technical assistance that the US DOE Midwest CHP TAP delivered to this customer provided a great value that otherwise the customer would have had to pay for."

Mike Zdyb, Director, Major Accounts
Northern Indiana Public Service Company (NIPSCO)
Merrillville, IN

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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).