



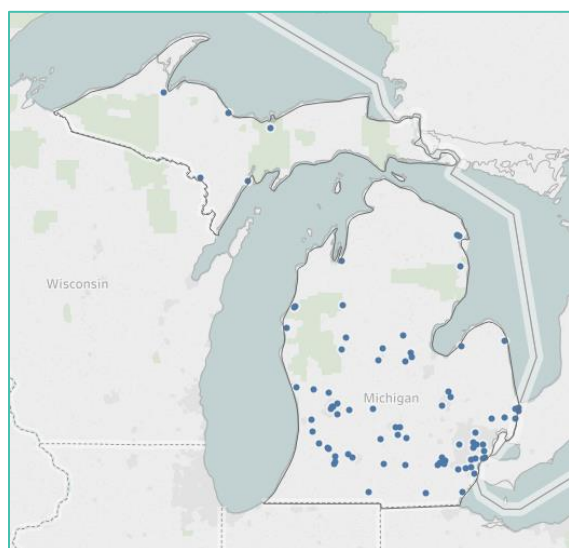
Combined Heat and Power (CHP) Snapshots – Michigan

Midwest CHP Technical Assistance Partnership (TAP) Quick Facts

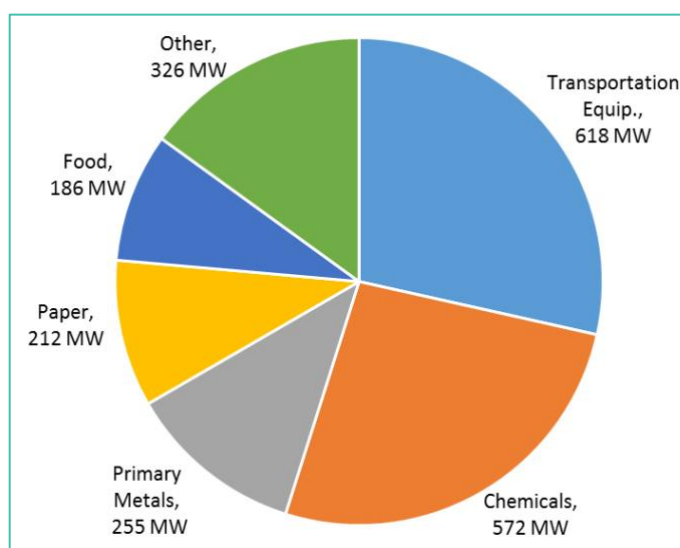
- The Midwest CHP TAP works with regional partners to promote and assist in transforming the market for CHP, waste heat to power, and district energy technologies throughout the midwestern region of the U.S.
- The Midwest CHP TAP serves the states of Illinois, Indiana, **Michigan**, Minnesota, Ohio,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

Michigan CHP Installations



CHP Technical Potential by Industrial Sector





Michigan CHP Project Snapshots

- **Grand Rapids District Energy (Grand Rapids, MI)** - Veolia Energy owns and operates the Grand Rapids District Energy system in downtown Grand Rapids, which provides steam and heat to more than 130 customers and produces 170 kW of electricity. The district energy system provides cost-effective heating to a wide variety of businesses and institutions including hospitals, colleges, exhibition centers, commercial office buildings, and retail spaces.
- **Battle Creek VA Medical Center (Battle Creek, MI)** - After assessing its energy security needs and renewable energy goals, the U.S. Department of Veterans Affairs installed CHP systems at several VA medical centers, including the center in Battle Creek, MI. This 2 MW biomass-fueled system provides reliable electricity and building heating to the VA medical center.

Testimonials from CHP TAP Beneficiaries in Michigan

“Our Municipal utility has utilized [the Midwest CHP TAP’s] services and greatly benefited from [the TAP] staff’s expertise and knowledge in the technical area of CHP through your Center’s management of the Midwest CHP TAP.”

*Melanie L. McCoy, Superintendent
Sebewaing Light and Water
Sebewaing, MI*

“[The Midwest CHP TAP’s] expertise has been helpful in identifying key information needs for several workshops in Michigan over the past several years, including the CHP Workshop for Hospitals that was conducted in Detroit in August 2016. These workshops, in which [the TAP’s] Center participated as a presenter and collaborator, served as a resource for facilities considering CHP, elicited ideas for policy change, and helped expand outreach to facility owners. These workshops were widely attended by individuals from industry and government. In addition, [the TAP] staff’s expertise has helped Michigan entities evaluate the technical and economic opportunities for CHP at their facilities.”

*Robert Jackson, Director
Michigan Energy Office, Michigan Agency for Energy
Lansing, MI*

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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>).