

# The State of CHP: Indiana



The information in this document provides a general overview of the state of CHP in Indiana, with data on current installations, technical potential, and economics for CHP. For help with questions about specific CHP opportunities in Indiana, please consult with the [Midwest CHP Technical Assistance Partnership](#).

Installed CHP

CHP Technical Potential

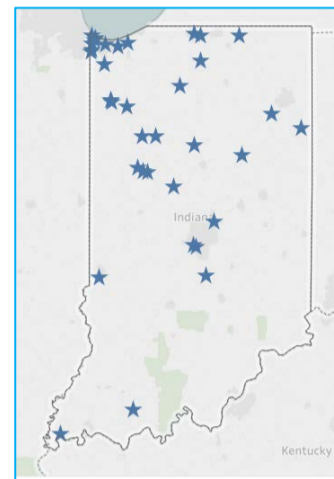
CHP Economics

CHP Partners

## Indiana Installed Base of CHP

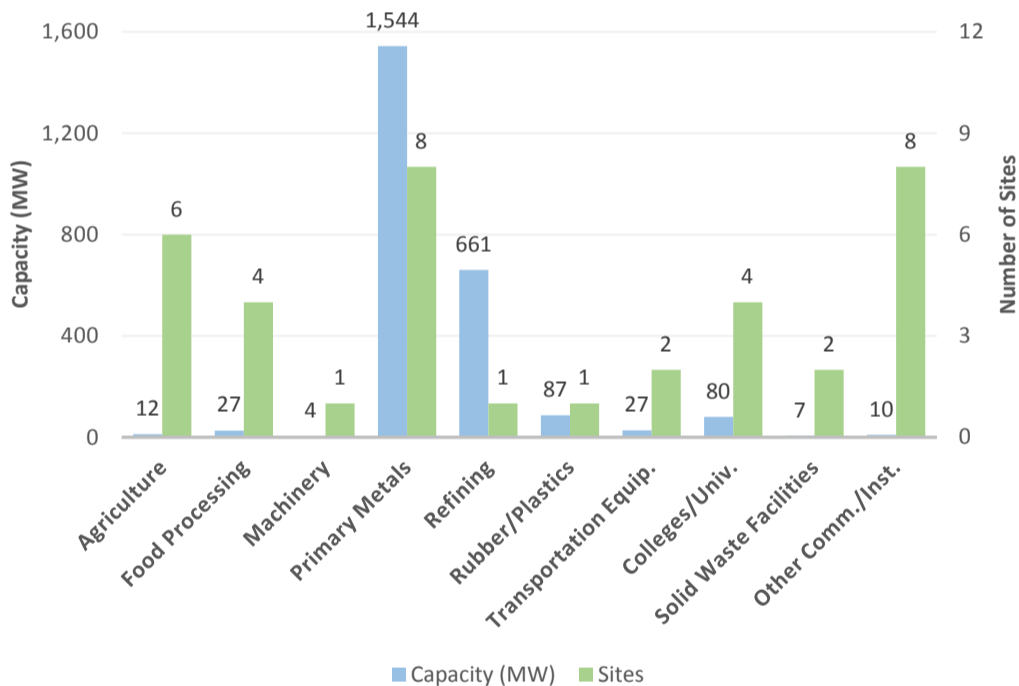
[U.S. DOE Combined Heat and Power Installation Database](#)

Sector	Installations	Capacity (MW)
Industrial	17	2,348
Commercial/Institutional	14	97
Other	6	12
<b>Total</b>	<b>37</b>	<b>2,457</b>



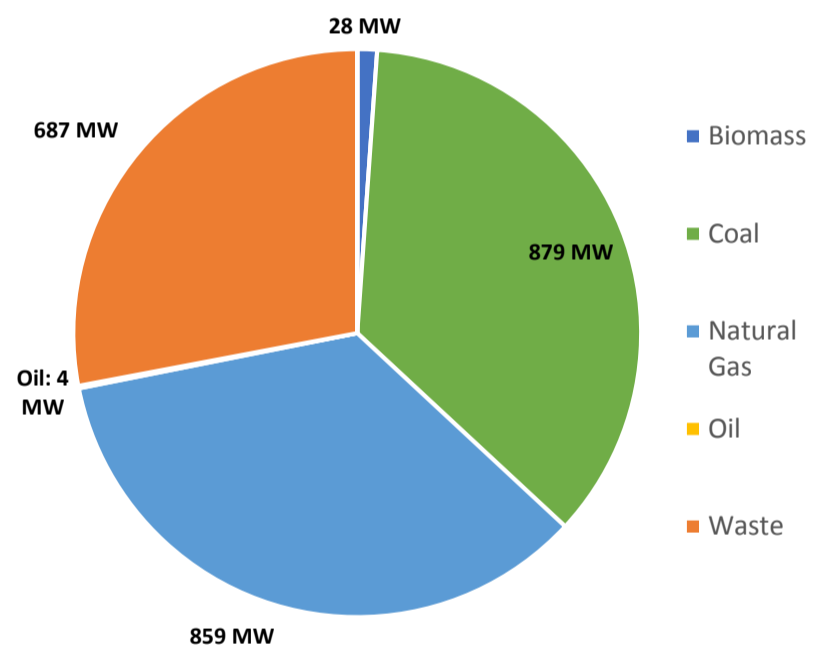
The Midwest CHP Technical Assistance Partnership has compiled information on certain illustrative CHP projects in Indiana. You can access these by visiting the Department of Energy's [CHP Project Profiles Database](#).

Indiana CHP by Application



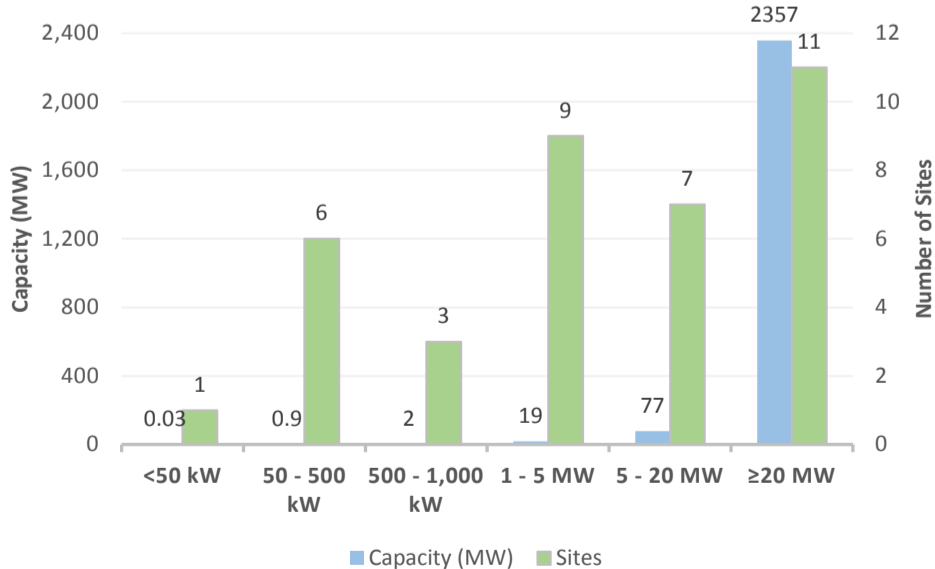
Source: DOE CHP Installation Database (U.S. installations as of Dec. 31, 2016)

Indiana CHP Capacity (MW) by Fuel Type



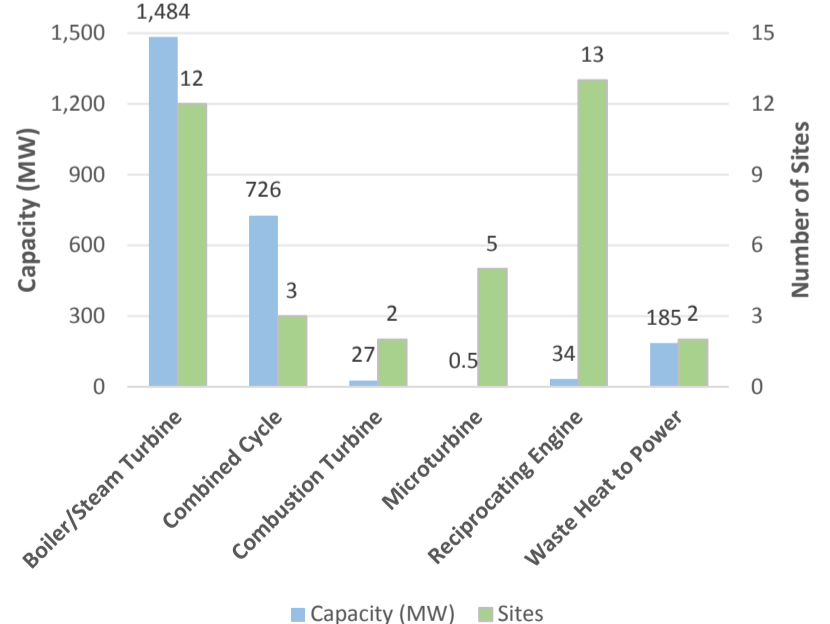
Source: DOE CHP Installation Database (U.S. installations as of Dec. 31, 2016)

Indiana CHP by Size Range



Source: DOE CHP Installation Database (U.S. installations as of Dec. 31, 2016)

Indiana CHP by Technology



Source: DOE CHP Installation Database (U.S. installations as of Dec. 31, 2016)

**Combined Heat and Power (CHP)** – sometimes referred to as cogeneration – is an efficient and clean approach to generating on-site electric power and useful thermal energy from a single fuel source.



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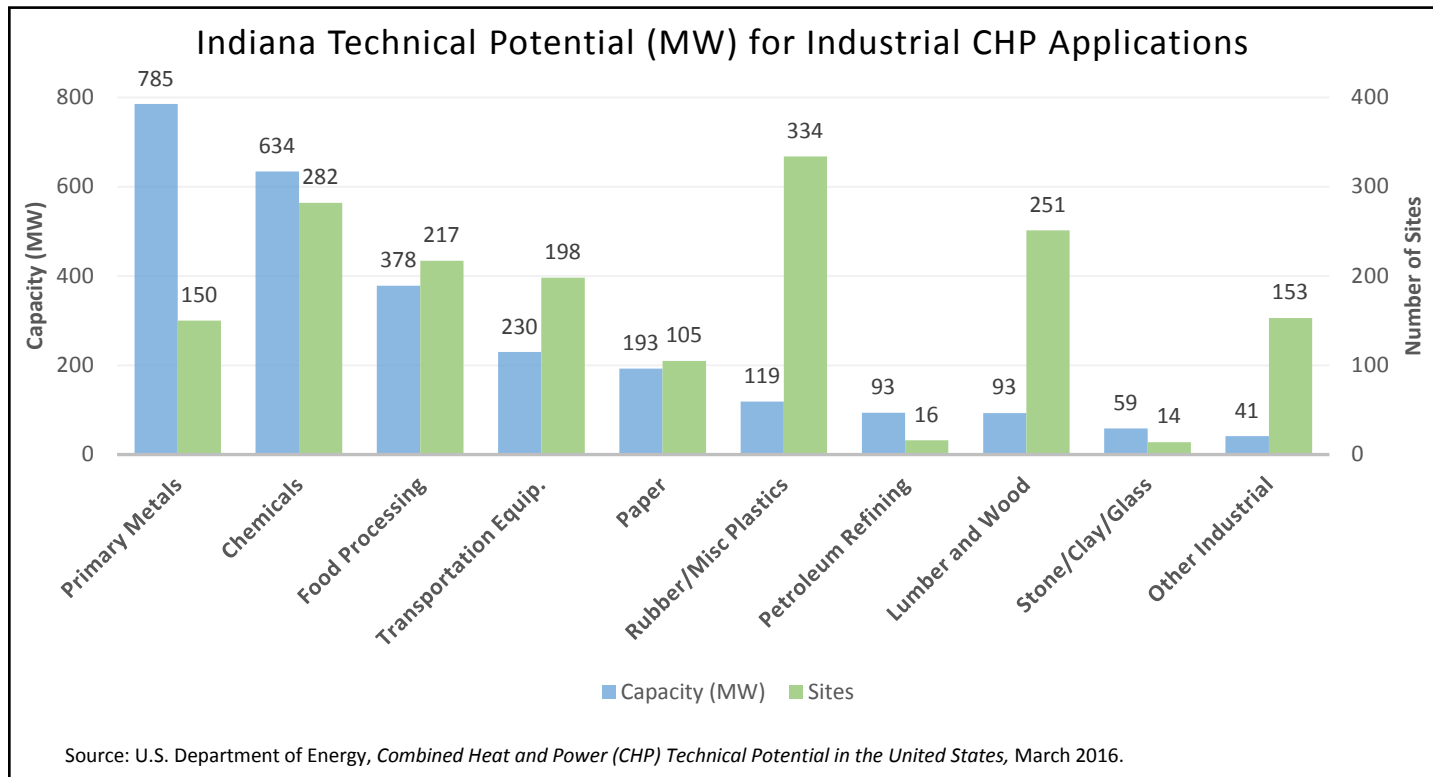
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## Indiana Technical Potential for New CHP Installations

[U.S. DOE Analysis: Combined Heat and Power \(CHP\) Technical Potential in the United States](#)

Sector	Potential Sites	Potential Capacity (MW)
<b>Industrial</b>	<b>1,720</b>	<b>2,624</b>
<b>Commercial/Institutional</b>	<b>5,553</b>	<b>1,986</b>
<b>Total</b>	<b>7,273</b>	<b>4,610</b>

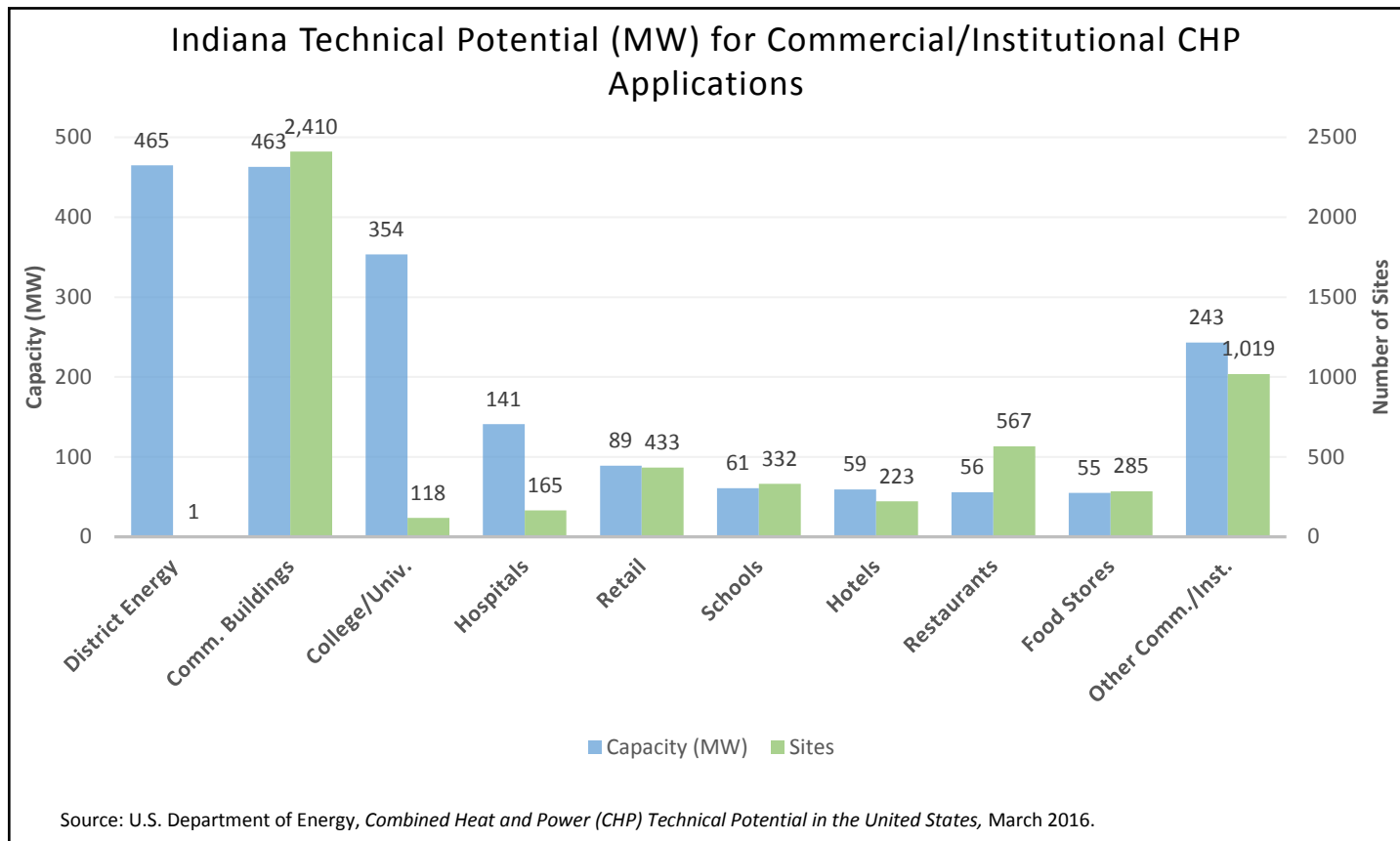


Source: U.S. Department of Energy, *Combined Heat and Power (CHP) Technical Potential in the United States*, March 2016.

### Technical Potential by CHP Size Range for Top Five Industrial Sectors

Application	50-500 kW		0.5 - 1 MW		1 - 5 MW		5 - 20 MW		>20 MW		Total	
	Sites	MW	Sites	MW	Sites	MW	Sites	MW	Sites	MW	Total Sites	Total MW
Primary Metals	60	12	26	18	26	57	29	298	9	399	150	785
Chemicals	148	27	33	24	69	158	27	204	5	220	282	634
Food Processing	135	29	25	18	43	77	8	67	6	187	217	378
Transportation Equip.	121	22	27	19	38	71	12	117	0	0	198	230
Paper	59	15	13	9	21	43	11	105	1	21	105	193
Other Industrial	626	108	79	56	55	119	7	64	1	59	768	405
<b>Total</b>	<b>1,149</b>	<b>212</b>	<b>203</b>	<b>145</b>	<b>252</b>	<b>525</b>	<b>94</b>	<b>856</b>	<b>22</b>	<b>887</b>	<b>1,720</b>	<b>2,624</b>

Source: U.S. Department of Energy, *Combined Heat and Power (CHP) Technical Potential in the United States*, March 2016.



Source: U.S. Department of Energy, *Combined Heat and Power (CHP) Technical Potential in the United States*, March 2016.

### Technical Potential by CHP Size Range for Top Five Commercial/Institutional Sectors

Application	50-500 kW		0.5 - 1 MW		1 - 5 MW		5 - 20 MW		>20 MW		Total	
	Sites	MW	Sites	MW	Sites	MW	Sites	MW	Sites	MW	Total Sites	Total MW
Commercial Buildings	1,542	77	675	270	193	116	0	0	0	0	2,410	463
College/Univ.	67	12	3	2	32	92	11	103	5	145	118	354
Hospitals	88	20	32	22	43	83	2	16	0	0	165	141
Retail	382	55	46	28	5	6	0	0	0	0	433	89
Schools	320	52	11	7	1	1	0	0	0	0	332	61
Other Comm./Inst.	1,947	282	108	65	46	84	5	43	0	0	2,426	474
<b>Total</b>	<b>4,346</b>	<b>446</b>	<b>864</b>	<b>387</b>	<b>319</b>	<b>381</b>	<b>18</b>	<b>162</b>	<b>6</b>	<b>610</b>	<b>5,553</b>	<b>1,986</b>

Source: U.S. Department of Energy, *Combined Heat and Power (CHP) Technical Potential in the United States*, March 2016.

**Combined Heat and Power (CHP)** – sometimes referred to as cogeneration – is an efficient and clean approach to generating on-site electric power and useful thermal energy from a single fuel source.



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## Indiana CHP Economics

The most important indicators for CHP economics are electricity and gas prices. For most potential CHP installations, natural gas and electricity rates for host facilities will fall within the range of average commercial and industrial prices. Lower energy prices may be possible for large CHP applications.

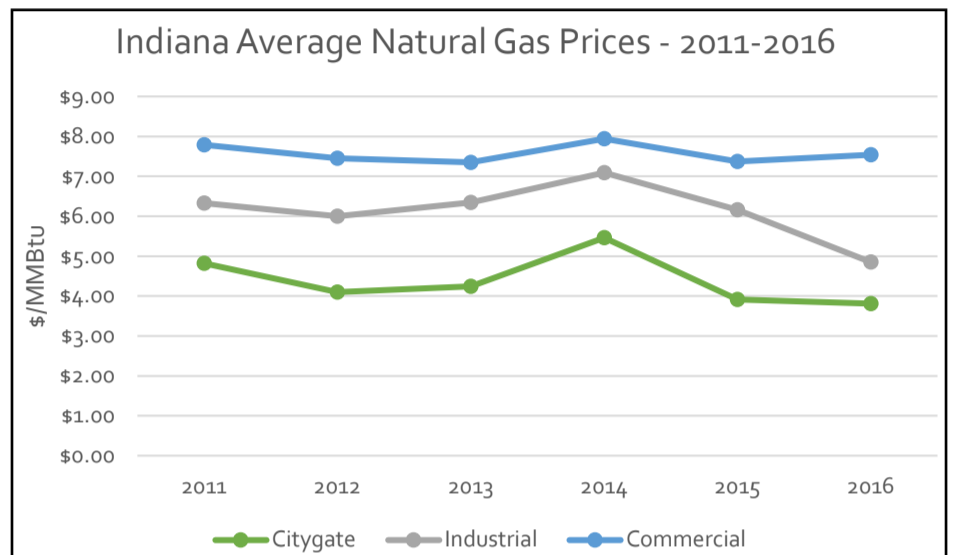
### Indiana Natural Gas Prices

#### Indiana Average Gas Prices - 2016

Sector	IN Price (\$/MMBtu)	U.S. Price (\$/MMBtu)
Citygate*	3.81	3.75
Industrial	4.85	3.39
Commercial	7.54	7.22

Source: U.S. Energy Information Administration, "Natural Gas Prices", [https://www.eia.gov/dnav/ng/ng\\_pri\\_sum\\_dcu\\_SIN\\_a.htm](https://www.eia.gov/dnav/ng/ng_pri_sum_dcu_SIN_a.htm)

The EIA industrial natural gas price is a full tariff rate, and most large consumers are purchasing gas commodities from marketers at a lower rate.



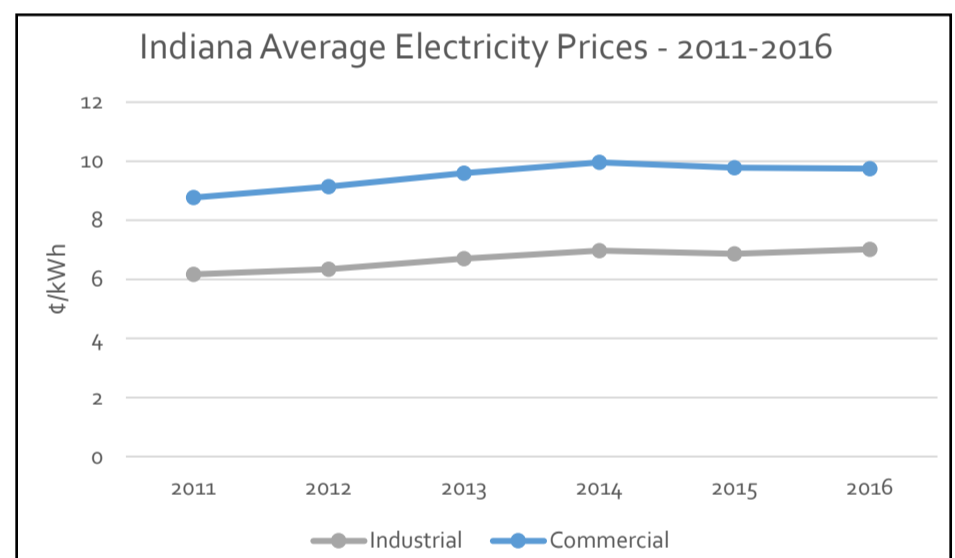
### Indiana Electricity Prices

#### Indiana Average Electricity Prices - 2016

Sector	IN Price (¢/kWh)	U.S. Price (¢/kWh)
Industrial	7.02	6.75
Commercial	9.75	10.37

Source: U.S. Energy Information Administration, "Electricity Data Browser", <https://www.eia.gov/electricity/data.cfm>

Electricity rates can vary greatly by utility and facility size range. The rates below from EIA represent general averages; individual facility rates may vary.



#### Indiana Average Delivered Electricity Prices by Utility

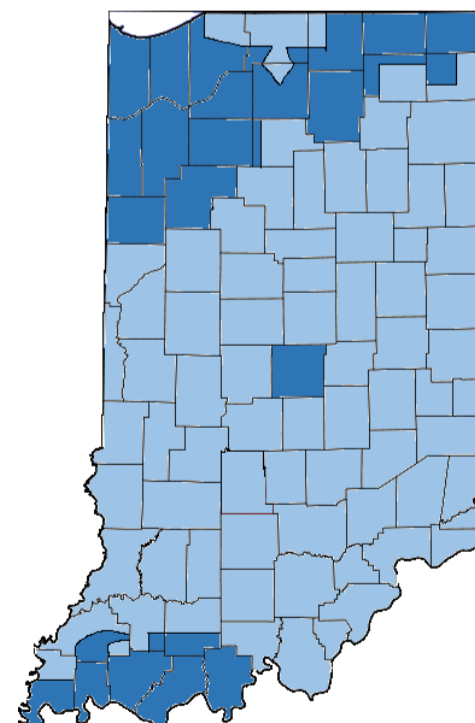
Utility	Industrial Price (¢/kWh)	Commercial Price (¢/kWh)	Average Price** (¢/kWh)
Vectren	7.16	77.97	9.56
Northern IN Public Service	7.00	11.54	9.27
Indianapolis Power & Light	7.80	10.72	9.26
City of Tell City	7.91	10.21	9.06
Duke Energy Indiana	6.94	8.80	7.87
Indiana Michigan Power	6.27	8.45	7.36

Source: U.S. Energy Information Administration, "Annual retail price of electricity by utility", <https://www.eia.gov/electricity/data.cfm>

\*Citygate is a point or measuring station at which a distributing gas utility receives gas from a NG pipeline company or transmission system.

\*\*Average of commercial and industrial electricity prices as reported by EIA.

#### Indiana Electricity Prices – Heat Map



Light Blue: Duke Energy Indiana / Indiana Michigan Power Co  
 Dark Blue: Vectren / Northern IN / Indianapolis Power & Light / Tell City

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CHP Technical  
Potential

CHP Economics

CHP Partners

## Department of Energy CHP Partnerships

### Midwest CHP Technical Assistance Partnership



U.S. DEPARTMENT OF ENERGY  
**CHP Technical Assistance Partnerships**  
MIDWEST

Midwest CHP TAP Director: Cliff Haefke  
Phone: 312-355-3476  
Email: [chaefk1@uic.edu](mailto:chaefk1@uic.edu)

### CHP for Resiliency Accelerator

The U.S. DOE is collaborating with a group of cities, states, and utilities who are actively pursuing CHP as a consideration in resiliency planning for critical infrastructure in their jurisdictions. This has included defining resiliency, identifying critical infrastructure, and assessing CHP opportunities. This process is being documented in a Resiliency Planning Tool. For more information: [CHP for Resiliency Accelerator Website](#).

- Currently, there are no CHP for Resiliency Accelerator partners in Indiana.

**Combined Heat and Power (CHP)** – sometimes referred to as cogeneration – is an efficient and clean approach to generating on-site electric power and useful thermal energy from a single fuel source.



U.S. DEPARTMENT OF ENERGY  
**CHP Technical Assistance Partnerships**