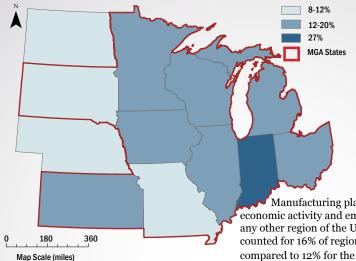
MANUFACTURING SHARE OF STATE GDP, 2010



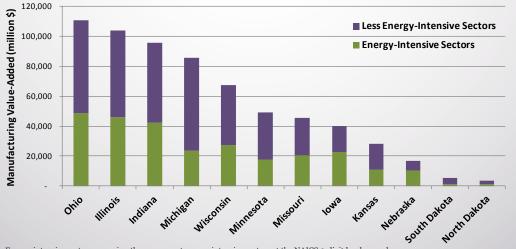
Manufacturing plays a central role in the economy and energy system of the U.S. Midwest. Declining jobs and volatile energy expenditures have spurred discussions on the future of Midwest manufacturing and the role of public policy in facilitating renewed investment and economic development. This handout summarizes state and regional data on the status of Midwest manufacturing to help inform policy makers, practitioners, and industry stakeholders. This fact sheet is an initial product in the World Resources Institute's ongoing investigation of industry energy efficiency opportunities in the Midwest.

Manufacturing Summary

Manufacturing plays a larger role in the economic activity and employment of the Midwest than any other region of the U.S. Midwest manufacturing accounted for 16% of regional GDP in 2010, compared to 12% for the U.S. overall.

MIDWEST VALUE-ADDED OF MANUFACTURING, 2010

Value added is a measure of economic activity. The Midwest census region accounted for 30% of U.S. manufacturing value-added in 2010, compared to 22% of total population. Within the region, Ohio had the highest level of manufacturing activity in 2010. Energy-intensive sectors are of varying importance among Midwestern states, as illustrated by the varying green portions in the bar chart below.

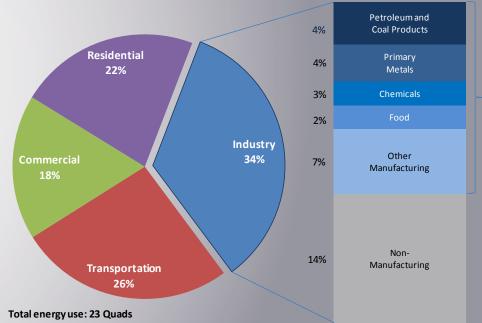


Energy-intensive sectors comprise the seven most energy-intensive sectors at the NAICS 3-digit level; namely: primary metals, petroleum & coal products, chemicals, food, non-metallic minerals, paper, and wood products.

Sources: Regional map data are from the U.S. Bureau of Economic Analysis; value-added data are from the U.S. Census Bureau Annual Survey of Manufacturers (ASM); energy use data are from the EIA State Energy Data System, the ASM, and the Manufacturing Energy Consumption Survey.

For more information on manufacturing energy use, contact James Bradbury (jbradbury@wri.org) or Nate Aden (naden@wri.org).

MIDWEST TOTAL ENERGY USE, 2006



Industry is the largest energy-using sector in the Midwest, followed by the transportation, residential, and commercial sectors. Manufacturing accounted for 60% of 2006 industrial sector fuel and feedstock energy use in the Midwest. The four manufacturing sectors that consumed the most energy were petroleum and coal products, primary metals, chemicals, and food processing.

The World Resources Institute is an environmental think tank that goes beyond research to find practical ways to protect the Earth and improve people's lives. Our mission is to move human society to live in ways that protect Earth's environment and its capacity to provide for the needs and aspirations of current and future generations.

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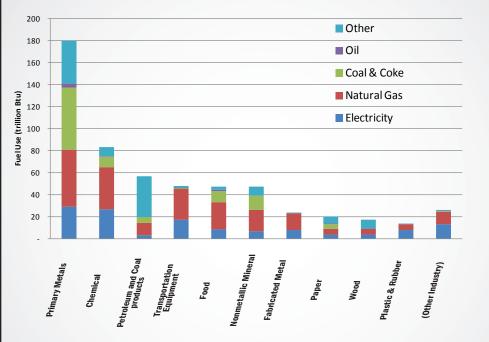
INDIANA TOTAL ENERGY USE, 2006

Industry consumed almost half of Indiana energy (including feedstocks) in 2006. Coincidentally, manufacturing accounted for 47% of Indiana industry energy use in the same year.

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FUEL USE BY INDIANA MANUFACTURING, 2006

In 2006 Indiana manufacturing consumed 560 trillion Btu of energy for fuel use. Natural gas was the most-consumed fuel for manufacturing. Primary metals manufacturing accounted for 32% of Indiana manufacturing fuel use in 2006.



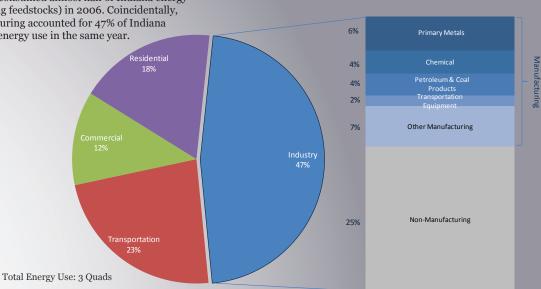
INDUSTRY PURCHASED ENERGY PRICES (2009, 2010)

Energy prices influence demand and end-use efficiency. Whereas reported Indiana electricity prices were 13% lower than the national average, delivered natural gas and coal were slightly more expensive than the national average. Prices vary by end-user and time of use, but this snapshot of 2009 and 2010 prices suggests that industry faces a mixed picture among different fuels.

	Electricity	Natural Gas	Coal
	(cents/kWh)	(\$/ 1,000 ft ³)	(\$/short ton)
Indiana	5.87	5.53	66.48
Midwest Average	6.19	6.45	57.51
U.S. Average	6.77	5.39	64.87

Sources: Industrial energy price data are from the EIA (2010 data for electricity and natural gas; 2009 data for delivered coal); energy and fuel use data were estimated based on data from the EIA State Energy Data System, Manufacturing Energy Consumption Survey, and the U.S. Census Bureau Annual Survey of Manufacturers (ASM); index time series data are from the ASM.

For more information on manufacturing energy use, contact James Bradbury (jbradbury@wri.org) or Nate Aden (naden@wri.org).



INDEX OF MANUFACTURING ENERGY COST, VALUE OF SHIPMENTS, **AND EMPLOYMENT (2000-2010)**

Manufacturing energy expenditures have fluctuated substantially over the past ten years. Between 2000 and 2010, the cost of fuels and electricity rose by 32% while the value of shipments grew by 28%. Over the same period, Indiana manufacturing employment dropped by 35%--from 640,000 to 420,000.

