
Impacts of the Natural Gas, Oil and Petrochemical Industry on the US Economy in 2018

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The Economic Impact of the Natural Gas, Oil and Petrochemical Industry in Michigan, 2018

Sector Description	Direct	Indirect	Induced	Total	As a % of State Total
Employment*					
Industry Direct Impact	60,180			60,180	1.1%
Indirect/Induced Impacts on Other Industries					
<i>Services</i>		43,400	64,360	107,760	
<i>Wholesale and retail trade</i>		8,960	15,580	24,540	
<i>Manufacturing</i>		17,650	6,600	24,250	
<i>Finance, insurance, real estate, rental and leasing</i>		8,740	12,650	21,390	
<i>Construction</i>		14,960	840	15,800	
<i>Transportation and warehousing</i>		7,680	3,530	11,210	
<i>Information</i>		1,350	1,460	2,810	
<i>Government</i>		1,180	1,320	2,500	
<i>Agriculture</i>		1,190	1,280	2,470	
<i>Utilities</i>		790	430	1,220	
<i>Mining</i>		240	30	270	
Total Impact on Employment	60,180	106,130	108,090	274,400	4.8%
Labor Income** (\$ Millions)					
Industry Direct Impact	\$4,034			\$4,034	1.2%
Indirect/Induced Impacts on Other Industries					
<i>Services</i>		\$3,119	\$3,212	\$6,331	
<i>Manufacturing</i>		\$1,495	\$523	\$2,018	
<i>Wholesale and retail trade</i>		\$698	\$688	\$1,386	
<i>Finance, insurance, real estate, rental and leasing</i>		\$541	\$664	\$1,205	
<i>Construction</i>		\$913	\$51	\$964	
<i>Transportation and warehousing</i>		\$457	\$205	\$661	
<i>Information</i>		\$133	\$133	\$266	
<i>Utilities</i>		\$139	\$73	\$212	
<i>Government</i>		\$96	\$104	\$200	
<i>Agriculture</i>		\$23	\$20	\$43	
<i>Mining</i>		\$15	\$2	\$17	
Total Impact on Labor Income	\$4,034	\$7,628	\$5,676	\$17,338	5.2%
Value Added (\$ Millions)					
Industry Direct Impact	\$10,675			\$10,675	2.0%
Indirect/Induced Impacts on Other Industries					
<i>Services</i>		\$3,655	\$3,806	\$7,461	
<i>Finance, insurance, real estate, rental and leasing</i>		\$1,530	\$2,591	\$4,122	
<i>Manufacturing</i>		\$2,240	\$857	\$3,097	
<i>Wholesale and retail trade</i>		\$1,185	\$1,113	\$2,298	
<i>Construction</i>		\$873	\$73	\$946	
<i>Transportation and warehousing</i>		\$556	\$270	\$826	
<i>Utilities</i>		\$396	\$213	\$610	
<i>Information</i>		\$299	\$306	\$605	
<i>Government</i>		\$125	\$140	\$265	
<i>Agriculture</i>		\$44	\$52	\$97	
<i>Mining</i>		\$66	\$11	\$77	
Total Impact on Value Added	\$10,675	\$10,970	\$9,434	\$31,078	5.9%

Source: PwC calculations based on the IMPLAN modeling system (2018 database). Details may not add to totals due to rounding.

* Employment is defined as the number of payroll and self-employed jobs, including part-time jobs.

** Labor income is defined as wages and salaries and benefits as well as proprietors' income.