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Benefits and Opportunities of Natural Gas Use, Transportation, and Production



New Jersey

Economic Impacts of Natural Gas

There were 79,800 jobs in the state related to natural gas. These jobs represented 2.0 percent of total state jobs. The top three sectors with the greatest number of jobs were natural gas distribution, chemical manufacturing, and industrial equipment and machinery repair and maintenance. The contribution to the New Jersey economy in terms of direct, indirect, and induced value added in 2015 was \$11.6 billion, of which \$7.22 billion was related to the end use segment, \$3.56 billion was from the infrastructure segment, and \$831 million was from the production segment.

Natural Gas Consumers

In 2015, New Jersey consumed 747 Bcf of natural gas in all sectors. There were a total of 2.98 million customers. The value of natural gas delivered to consumers was \$4.24 billion.

New Jersey has 2.73 million residential customers who consumed 237 Bcf in 2015. Average consumption was 87 Mcf per household. Residential demand was 55 percent for space heating, 28 percent for water heating, 6 percent for cooking, 3 percent for clothes drying, and 8 percent for other uses.

New Jersey has 241,000 commercial customers who consumed 163 Bcf in 2015. Average consumption per commercial customer was 676 Mcf. Commercial demand was 54 percent for space heating, 16 percent for water heating, 5 percent for cooking, and 25 percent for other uses.

There are 7,000 industrial customers in New Jersey who consumed 55 Bcf. Average consumption per industrial customer was 8 MMcf. The top industries for gas consumption were Chemicals (NAICS Code 325), Non-metallic Mineral Products (327), Food (311), Petroleum and Coal Products (324), and Primary Metals (331), representing 85 percent of industrial demand.

New Jersey has 57 power plants consuming natural gas. In 2015, gas consumed was 291 Bcf, representing 50 percent of power generation in the state. Average consumption per customer was 5,102 MMcf.

Natural Gas Infrastructure

New Jersey has no oil and gas wells or production and all natural gas consumed comes from other states. The state has 1,569 miles of gas pipelines, no crude oil pipelines, 11 miles of NGL pipelines, 614 miles of product pipelines, and no CO2 pipelines. There were 34,792 miles of gas distribution mains and 32,966 miles of service lines. There are no natural gas storage sites in the state.

Exhibit 7-32: New Jersey State Factsheet

New Jersey			Employment (# of Workers)			Labor Income (\$ million)			Value Added (\$ million)		
Summary	Segment	Category	Direct & Indirect	Induced	Total	Direct & Indirect	Induced	Total	Direct & Indirect	Induced	Total
	End-Use	Power Generation	3,407	6,368	9,775	263	318	581	1,371	560	1,931
		Industrial	6,932	14,009	20,941	617	744	1,361	2,194	1,236	3,429
		Residential/ Commercial	4,591	5,746	10,337	302	294	596	1,186	519	1,706
		Export	757	1,074	1,831	54	54	108	60	96	155
		Transportation	11	8	19	1	0	1	2	1	2
	Infrastructure	Processing	801	1,815	2,616	57	90	147	62	165	228
		Pipelines	3,192	4,908	8,100	250	253	503	428	450	878
		Distribution	8,859	7,501	16,360	843	432	1,275	1,719	679	2,398
		Wholesalers, Marketers, Other	188	184	371	17	10	28	34	17	51
	Production	Natural Gas/ NGLs	2,991	6,434	9,425	235	318	553	258	573	831
	All Segments	Grand Total	31,730	48,047	79,776	2,638	2,515	5,153	7,313	4,296	11,609

Jobs by Top Industries	Rank	NAICS	Industry Sector	Direct and Indirect Jobs
	1	221210	Natural Gas Distribution	3,734
	2	325	Chemical Manufacturing	2,900
	3	811310	Industrial Equip. & Machinery Repair & Maint.	1,223
	4	237120	Oil & Gas Pipeline Construction	1,045
	5	811412	Household Appliance Repair & Maintenance	686
	6	221112	Gas-fired Electric Power Generation	657
	7	236210	Industrial Construction	590
	8	333994	Industrial Process Furnace & Oven Manufacturing	466
	9	33241	Power Boiler & Heat Exchanger Manufacturing	301
	10	45431NGL	NGL Retail	272

Customers	Sector	Customer Count	Consumption Volume (MMcf/ year)	Value of Natural Gas Delivered to Customers (\$million)
	Residential Sector	2,728,340	237,104	\$1,977
	Commercial Sector	241,417	163,223	\$1,207
	Industrial Sector	7,019	55,368	\$217
	Transportation	28	239	\$2
	Power Sector	57	290,843	\$835
	All Sectors	2,976,861	746,777	\$4,238

Infrastructure	Gas Distribution Main (miles)	Gas Distribution Services (miles)	Gas Gathering (miles)	Gas Pipelines (miles)	Crude Oil Pipelines (miles)	NGL Pipelines (miles)	Oil Product Pipelines (miles)	CO2 Pipelines (miles)
	34,792	32,966	0	1,569	0	11	614	0

Production	Product	Annual Production
	Dry Natural Gas (mmcf)	0
	Gas Plant Liquids (barrels)	0
	Lease Condensate (barrels)	0
	Crude Oil (barrels)	0
	Annual Value Counted Toward Natural Gas Value Chain (\$million)	\$0
	Annual Value of All Produced Oil, Gas, NGLs (\$million)	\$0

Wells	Well Type	Operating Wells	New Wells Drilled
	Oil Wells	0	0
	Gas Wells	0	0
	All Wells	0	0

Annual 2015 Data for New Jersey
Natural Gas Value Chain Basis