

PREPARED FOR **AMERICAN PETROLEUM INSTITUTE**

PREPARED BY **ICF**

9300 LEE HIGHWAY | FAIRFAX VA

JUNE 2017

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



Maryland

Economic Impacts of Natural Gas

There were 38,300 jobs in Maryland related to natural gas. These jobs represented 1.5 percent of total state jobs. The top three sectors with the greatest number of jobs were industrial construction, industrial equipment and machinery repair and maintenance, and oil and gas pipeline construction. The contribution to the Maryland economy in terms of direct, indirect, and induced value added in 2015 was \$4.90 billion, of which \$3.11 billion was related to the end use segment, \$1.36 billion was from the infrastructure segment, and \$433 million was from the production segment.

Natural Gas Consumers

In 2015, Maryland consumed 208 Bcf of natural gas in all sectors. There were a total of 1.19 million customers. The value of natural gas delivered to consumers was \$1.67 billion.

Maryland has 1.11 million residential customers who consumed 83 Bcf in 2015. Average consumption was 74 Mcf per household. Residential demand was 72 percent for space heating, 20 percent for water heating, 3 percent for cooking, and 5 percent for other uses.

Maryland has 78,000 commercial customers who consumed 70 Bcf in 2015. Average consumption per customer was 989 Mcf. Commercial demand was 38 percent for space heating, 24 percent for water heating, 10 percent for cooking, 9 percent for cogeneration, and 19 percent for other uses.

There are 1,170 industrial customers in Maryland who consumed 15 Bcf in 2015. Average consumption per industrial customer was 13 MMcf. The top industries for gas consumption were Chemicals (NAICS Code 325), Food (311), Agriculture (11), Petroleum and Coal Products (324), and Non-metallic Mineral Products (327), representing 72 percent of industrial demand.

Maryland has 24 power plants consuming natural gas. In 2015, gas consumed was 40 Bcf, representing 13 percent of power generation in the state. Average consumption per customer was 1,651 MMcf.

Natural Gas Infrastructure

Maryland has no oil and gas wells or production and all natural gas consumed comes from other states.

Maryland has 974 miles of gas pipelines and 311 miles of product pipelines. There were 14,800 miles of gas distribution mains and 13,400 miles of service lines. There was 1 natural gas storage site in the state with a working gas capacity of 18 Bcf.

Exhibit 7-22: Maryland State Factsheet

Maryland			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	1,037	2,821	3,858	77	139	217	440	248	688
		Industrial	1,637	5,758	7,394	104	272	376	367	508	874
		Residential/ Commercial	1,871	2,778	4,649	124	143	267	486	251	737
		Export	4,383	2,075	6,458	323	106	429	623	185	808
		Transportation	12	16	27	1	1	1	2	1	3
	Infrastructure	Processing	379	1,005	1,384	26	49	75	50	92	141
		Pipelines	1,531	2,641	4,172	103	131	234	143	242	385
		Distribution	2,192	3,053	5,245	153	156	309	538	277	816
		Wholesalers, Marketers, Other	55	82	137	4	4	8	11	7	18
Production	Natural Gas/ NGLs	1,404	3,534	4,939	107	175	282	118	315	433	
All Segments	Grand Total	14,501	23,762	38,263	1,022	1,176	2,198	2,776	2,126	4,902	

Rank	NAICS	Industry Sector	Direct and Indirect Jobs
1	236210	Industrial Construction	1,574
2	811310	Industrial Equip. & Machinery Repair & Maint.	661
3	237120	Oil & Gas Pipeline Construction	580
4	325	Chemical Manufacturing	560
5	221210	Natural Gas Distribution	490
6	45431NGL	NGL Retail	363
7	811412	Household Appliance Repair & Maintenance	240
8	221112	Gas-fired Electric Power Generation	153
9	4841	Freight Truck	134
10	213111	Drilling Oil & Gas Wells	81

Sector	Customer Count	Consumption Volume (MMcf/ year)	Value of Natural Gas Delivered to Customers (\$million)
Residential Sector	1,113,342	82,858	\$927
Commercial Sector	78,138	70,199	\$525
Industrial Sector	1,169	14,765	\$60
Transportation	17	263	\$3
Power Sector	24	39,632	\$154
All Sectors	1,192,690	207,716	\$1,669

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)
	14,806	13,389	6	974	0	0	311	0

Product	Annual Production
Dry Natural Gas (mmcf)	27
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	7	0
	All Wells	7	0

Annual 2015 Data for Maryland
Natural Gas Value Chain Basis