

# 2016 Minerals Yearbook

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## BAHRAIN

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# THE MINERAL INDUSTRY OF BAHRAIN

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Hydrocarbons were a leading segment of the economy of Bahrain in 2016, accounting for most of the country's exports of goods (Central Informatics Organization, 2017, table 20). The country ranked ninth among the leading world producers of aluminum (Bray, 2017). The legislative framework for the mineral sector in Bahrain is provided by law No. 21 of 2001 and law No. 10 of 2006. Data on mineral production are in table 1. Table 2 is a list of major mineral industry facilities. More-extensive coverage of the mineral industry of Bahrain can be found in previous editions of the U.S. Geological Survey

Minerals Yearbook, Volume III, Area Reports—International—Africa and the Middle East, which are available at <https://www.usgs.gov/centers/nmic/africa-and-middle-east>.

## References Cited

- Bray, E.L., 2017, Aluminum: U.S. Geological Survey Mineral Commodity Summaries 2017, p. 22–23.
- Central Informatics Organization [Bahrain], 2017, National accounts—Annual report 2016: Central Informatics Organization. (Accessed June 28, 2017, at <http://www.data.gov.bh/en/ResourceCenter/>.)

TABLE 1  
BAHRAIN: PRODUCTION OF MINERAL COMMODITIES<sup>1</sup>

(Thousand metric tons, gross weight, unless otherwise specified)

Commodity <sup>2</sup>		2012	2013	2014	2015	2016
METALS						
Aluminum, metal production, primary	metric tons	890,217	912,700	931,427	960,643	971,420
Ferroalloys:						
Ferromanganese <sup>3</sup>	do.	5,300 <sup>r</sup>	-- <sup>r</sup>	-- <sup>r</sup>	-- <sup>r</sup>	-- <sup>e</sup>
Silicomanganese <sup>3</sup>	do.	6,000 <sup>r</sup>	20,000 <sup>r</sup>	17,000 <sup>r</sup>	15,000 <sup>r</sup>	15,000 <sup>e</sup>
Iron and steel:						
Direct-reduced iron		--	780	1,440	1,230	1,200 <sup>e</sup>
Raw steel <sup>e</sup>	metric tons	950,000	970,000	970,000	970,000	960,000
Products: <sup>e</sup>						
Stainless steel	do.	90,000	90,000	90,000	90,000	90,000
Steel-reinforcing bar	do.	200,000	200,000	200,000	200,000	200,000
Iron ore, pellets, from imports		11,000	11,000	10,800	11,000	10,200
INDUSTRIAL MINERALS						
Cement, hydraulic <sup>e</sup>		1,350	1,350	1,300 <sup>r</sup>	1,300 <sup>r</sup>	1,400
Nitrogen, N content:						
Ammonia		341	378	454	416	384
Urea		288	316	292	297	323
Sulfur		135 <sup>e</sup>	64 <sup>e</sup>	137	143	134 <sup>e</sup>
MINERAL FUELS AND RELATED MATERIALS						
Methanol		416	446	453	404	446
Natural gas:						
Gross	million cubic meters	12,567 <sup>r</sup>	13,485 <sup>r</sup>	14,605 <sup>r</sup>	14,547 <sup>r</sup>	13,997
Marketed	do.	9,621	8,970	9,441	8,682	8,202
Natural gas liquids <sup>4</sup>	thousand 42-gallon barrels	3,825	3,491	3,710	3,636	3,700
Petroleum:						
Crude	do.	63,302	72,122 <sup>r</sup>	73,882	73,556	73,944
Refinery production:						
Bitumen	do.	1,942	2,586	3,682	3,914	2,721
Distillate fuel oil	do.	30,529 <sup>r</sup>	28,504 <sup>r</sup>	29,517 <sup>r</sup>	30,436 <sup>r</sup>	28,897
Gasoline	do.	5,642 <sup>r</sup>	5,064 <sup>r</sup>	6,398	6,981	6,662
Kerosene and jet fuel	do.	24,675 <sup>r</sup>	26,604 <sup>r</sup>	23,254	25,821	24,670
Liquefied petroleum gas	do.	1,425 <sup>r</sup>	1,215 <sup>r</sup>	1,214 <sup>r</sup>	1,854 <sup>r</sup>	1,875
Naphtha <sup>5</sup>	do.	15,871 <sup>r</sup>	16,338 <sup>r</sup>	16,721 <sup>r</sup>	14,322 <sup>r</sup>	13,679
Residential fuel oil	do.	16,175 <sup>r</sup>	16,676 <sup>r</sup>	14,287 <sup>r</sup>	14,436 <sup>r</sup>	16,447
Other	do.	4,844 <sup>r</sup>	3,000 <sup>r, e</sup>	5,200 <sup>r, e</sup>	3,200 <sup>r, e</sup>	2,700 <sup>e</sup>
Total		101,000 <sup>r</sup>	100,000 <sup>r</sup>	100,000 <sup>r</sup>	101,000 <sup>r</sup>	98,000

<sup>e</sup>Estimated. <sup>r</sup>Revised. do. Ditto. -- Zero.

<sup>1</sup>Table includes data available through June 21, 2017. All data are reported unless otherwise noted. Totals and estimated data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>In addition to the commodities listed, aggregates, ferrochromium, rock, and sand may have been produced in Bahrain, but available information was inadequate to make reliable estimates of output.

<sup>3</sup>Reported by the International Manganese Institute.

<sup>4</sup>Series was previously reported as natural gas plant liquids and included butane, propane, and naphtha.

<sup>5</sup>Previously reported under natural gas plant liquids.

TABLE 2  
BAHRAIN: STRUCTURE OF THE MINERAL INDUSTRY IN 2016

(Metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities	Annual capacity
<b>Aluminum:</b>				
<b>Metal:</b>				
Primary and secondary		Aluminium Bahrain B.S.C. (Bahrain Mumtalakat Holding Co., 69.38%; SABIC Industrial Investments Co. Ltd., 20.62%; others, 10%)	Smelter at Sitra	960,000
Secondary		Bahrain Recycling Plant (private, 100%)	Dross and scrap remelt facilities at Askar	4,500
Rolled products		Gulf Aluminium Rolling Mill Co. B.S.C. (Bahrain Mumtalakat Holding Co., 31.28%; Saudi Basic Industries Corp., 31.28%; Gulf Investment Corp., 5.15%; Government of Iraq, 4.12%; Government of Oman, 2.06%; Government of Qatar, 2.06%)	Rolling mill at Sitra	165,000
Do.		do.	Foil mill at Sitra	20,000
Do.		Midal Cables Ltd. (Intersteel W.L.L., 50%, and Saudi Cable Co., 50%)	Rolling mill at Manama	120,000
Alloys		Bahrain Alloys Manufacturing Co.	Sitra	30,000
Flat products		Bahrain Aluminum Extrusion Co.	do.	25,000
Casting	wheel castings	Aluminium Wheel Co. W.L.L.	Manama	400,000
Powder		Bahrain Atomisers International B.S.C.	East Riffa Area	NA
Cement		Arabian Gulf Cement Co. W.L.L. (UltraTech Cement Ltd., 100%)	Clinker grinding mill at Al Hidd	400,000
Do.		Falcon Cement Co. (Cemena Holding Company B.S.C., 100%)	Hufaira Industrial Area	1,241,000
Do.		Al Sager Cement Co. (private, 100%)	Plant at Al Hidd	750,000
<b>Iron and steel:</b>				
Direct-reduced iron		United Steel Co. B.S.C. (Sulb) [Foulath Holding B.S.C., 51%, and Yamato Kogyo Co., 49%]	Al Hidd Industrial Area	1,500,000
Iron ore pellets		Bahrain Steel BSCC E.C. (Foulath Holding B.S.C., 100%)	Pellet plants at Al Hidd	11,000,000
<b>Steel:</b>				
Crude		United Steel Co. B.S.C. (Sulb) [Foulath Holding B.S.C., 51%, and Yamato Kogyo Co., 49%]	Al Hidd Industrial Area	970,000
Heavy sections		do.	do.	600,000
Hot-rolled		United Stainless Steel Co. B.S.C. (Gulf United Steel Holding Co., 100%)	do.	100,000
Stainless		Universal Rolling W.L.L.	do.	200,000
Ferroalloys		Bahrain Ferro Alloys B.S.C. (ETA Star Holdings L.L.C., 100%)	do.	60,000
Methanol		Gulf Petrochemical Industries Co. B.S.C. (GPIC) (National Oil and Gas Authority, 33.3%; Petrochemical Industries Co., 33.3%; Saudi Basic Industries Corp., 33.3%)	Sitra	450,000
<b>Natural gas:</b>				
Extracted	million cubic meters	Bahrain Petroleum Co., B.S.C. (Bapco) (private corporation) (National Oil and Gas Authority, 100%)	Bahrain field, Awali	14,000
<b>Liquids:</b>				
Butane	thousand 42-gallon barrels	Bahrain National Gas Co. B.S.C. (Bangas) (National Oil and Gas Authority, 75%; Boubyan Petrochemical Co., 12.5%; Chevron Bahrain, 12.5%)	Natural gas plant at Awali	1,100
Propane	do.	do.	do.	1,800

See footnotes at end of table.

TABLE 2—Continued  
BAHRAIN: STRUCTURE OF THE MINERAL INDUSTRY IN 2016

(Metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities	Annual capacity
Nitrogen:				
Ammonia		Gulf Petrochemical Industries Co. B.S.C. (GPIC) (National Oil and Gas Authority, 33.3%; Petrochemical Industries Co., 33.3%; Saudi Basic Industries Corp., 33.3%)	Sitra	500,000
Urea		do.	do.	700,000
Petroleum:				
Synthetic coke		Aluminium Bahrain B.S.C. (Bahrain Mumtalakat Holding Co., 69.38%; SABIC Industrial Investments Co. Ltd., 20.62%; others, 10%)	do.	600,000
Crude	thousand 42-gallon barrels	Saudi Arabian Oil Co. (Saudi Aramco)	Abu Saafa offshore oilfield <sup>1</sup>	93,400
Do.	do.	Bahrain Petroleum Co., B.S.C. (Bapco) (private corporation) (National Oil and Gas Authority, 100%)	Bahrain field, Awali	16,300
Refinery products	do.	do.	Sitra	267,000
Sulfur		do.	do.	135,000

Do., do. Ditto. NA Not available.

<sup>1</sup>Production from the field is pumped to Bahrain and subsequently refined and marketed by Bahrain Petroleum Co.