

# 2017–2018 Minerals Yearbook

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## MACEDONIA

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# THE MINERAL INDUSTRY OF MACEDONIA<sup>1</sup>

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In 2017 and 2018, the production of mineral commodities—notably copper, iron, lead, lignite, steel, and zinc—represented only a minor part of the economy of Macedonia (table 1; Republic of North Macedonia State Statistical Office, 2019, p. 508–512, 515, 516, 518). The legislative framework for the mineral sector in Macedonia is provided by the Law on Mineral Resources Nos. 136/12, 25/13, 93/13, 44/14, and 160/14 and the Energy Law Nos. 16/11, 136/11, 79/13, 164/13, 41/14, 151/14, and 33/15. 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 Macedonia

can be found in previous editions of the U.S. Geological Survey Minerals Yearbook, volume III, Area Reports—International—Europe and Central Eurasia, which are available at <https://www.usgs.gov/centers/nmic/europe-and-central-eurasia>.

## Reference Cited

Republic of North Macedonia State Statistical Office, 2019, Industry and energy, in Statistical yearbook, 2019: Republic of North Macedonia State Statistical Office, October 18, p. 504–543. (Accessed October 30, 2019, at [http://www.stat.gov.mk/PrikaziPublikacija\\_1\\_en.aspx?rbr=770](http://www.stat.gov.mk/PrikaziPublikacija_1_en.aspx?rbr=770).)

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<sup>1</sup>The name of the country was changed to “Republic of North Macedonia” in February 2019.

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

(Metric tons, gross weight, unless otherwise specified)

Commodity <sup>2</sup>	2014	2015	2016	2017	2018
<b>METALS</b>					
Copper:					
Mine:					
Concentrate, Cu content	7,800 <sup>e</sup>	8,834 <sup>r</sup>	9,032 <sup>r</sup>	8,008	6,800 <sup>e</sup>
Solvent extraction <sup>3</sup>	1,700	2,268 <sup>r</sup>	1,396 <sup>r</sup>	958	800
Refinery, primary, electrowon	1,700	2,268 <sup>r</sup>	1,396 <sup>r</sup>	958	800
Ferroalloys:					
Ferronickel:					
Gross weight <sup>e</sup>	82,100 <sup>r</sup>	80,500 <sup>r</sup>	48,200 <sup>r</sup>	32,600	45,900
Ni content	18,054	17,699	10,603	7,175	10,100
Ferrosilicon	73,014	45,698	24,431	21	--
Iron and steel, raw steel	196,454	165,235	239,164	237,949	265,129
Lead, mine, concentrate, Pb content	33,154	28,698	23,487	24,823	32,100 <sup>e</sup>
Zinc, mine, concentrate, Zn content	31,570	29,150	24,871	24,209	30,374
<b>INDUSTRIAL MINERALS</b>					
Cement, hydraulic	660,035	671,542	855,295	901,000	921,000
Clay, bentonite	11,691	9,000 <sup>e</sup>	1,968	912	2,945
Feldspar	18,076	20,289	19,919	21,237	30,813
Lime	10,836	8,003	8,684	1,399	6,834
Pumice and related minerals, volcanic tuff	65,504	70,148	76,796	77,000 <sup>e</sup>	77,000 <sup>e</sup>
Talc	483	598	715	878	900 <sup>e</sup>
<b>MINERAL FUELS AND RELATED MATERIALS</b>					
Coal, lignite	thousand metric tons	6,470	5,928	5,102	5,043
Petroleum, refinery:					
Distillate fuel oil	thousand 42-gallon barrels	2	--	--	--
Gasoline	do.	1	--	--	--
Residual fuel oil	do.	1	--	--	--
Total	do.	4	--	--	--

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

<sup>1</sup>Table includes data available through July 9, 2019. All data are reported unless otherwise noted. 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, secondary aluminum in small amounts, common clay, diatomite, and gold contained in copper concentrate may have been produced, but available information was inadequate to make reliable estimates of output.

<sup>3</sup>The copper content of solvent extraction output at the mine level is the same as electrowon refinery output because copper produced in the solvent extraction and electrowinning process is typically reported only at the refinery level.

TABLE 2  
MACEDONIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2018

(Thousand metric tons)

Commodity	Major operating companies and major equity owners	Location of main facilities	Annual capacity
Aluminum, secondary	J.S.A. Teal Co.	Tetovo City	2
Do.	RZ Insitute (Mines and Ironworks Institute AD)	Skopje	20 <sup>e</sup>
Cement	Cementarnica USJE AD (Titan Cement Co. S.A., 100%)	Plant at Skopje	2,100 <sup>e</sup>
Coal, lignite	AD Elektrani na Makedonija (AD ELEM) (state owned)	Mine at Suvodol	6,500
Do.	do.	Mine at Oslomej	1,200
Do.	do.	Star Rudnik Mine at Oslomej	310 <sup>e</sup>
Do.	do.	Brod-Gneotino Mine, south of Suvodol, near Brod	2,000
Do.	BRIK Berovo and Drimkol (Concessionaires)	Surface mines near Berovo and Globochica reservoir	140
Copper, gold and silver:			
Ore	Solway Investment Group Ltd.	Mine and mill at Buchim, west of Radovis	4,000
Metal	do.	Solvent extraction and electrowinning plant at Buchim, west of Radovis	800
Feldspar	AD Nemetali Ograzden	Strumica	20
Ferroalloys:			
Ferromanganese	do.	do.	66
Ferronickel, Ni content	FENI Industries A.D. <sup>1</sup> (Global Special Opportunities Ltd.)	Ferronickel plant at Kavadarci	22
Ferrosilicon	Jugohrom Ferroalloys DOO <sup>2</sup> (Camelot Group)	Plant at Jegunovce	66
Silicomanganese	Skopski Leguri DOOEL	Plant at Skopje	56
Iron and steel:			
Raw, secondary	Makstil A.D. Skopje (Duferco Skop Investment Ltd., 81.78%, and others, 18.22%)	do.	360
Semimanufactured	do.	do.	750 <sup>e</sup>
Do.	ArcelorMittal Skopje AD (ArcelorMittal)	do.	1,000
Lead-zinc:			
Concentrate, Pb and Zn content	Central Asia Metals PLC	Mill at Sasa, north of Makedonska Kamenica town	60 <sup>e</sup>
Ore, gross weight	do.	Sasa Mine, northern Makedonska Kamenica town	805 <sup>e</sup>
Do.	Minstroy Holding JSC	Zletovo Mine near Probistip	26
Do.	do.	Toranica Mine near Kriva Palanka	NA
Nickel ore, Ni content	FENI Industries A.D. (Global Special Opportunities Ltd.)	Open pit mine at Rzanovo, 32 kilometers south of Kavadarci	22
Stone:			
Marble	Mermeren Kombinat AD (Stone Works Holdings, 88.4%)	Prilep	NA
Do.	Fox Marble Holdings plc	do.	NA
Limestone	AD Nemetali Ograzden	Strumica	NA
Petroleum, refined	OKTA AD Skopje <sup>3</sup> (EL.P.ET Balkani S.A., 81.51%; Puko Petrol, 10.87%; company employees, 7.62%)	Oil refinery at Skopje	2,500

<sup>e</sup>Estimated. Do., do. Ditto. NA Not available.

<sup>1</sup>FENI Industries A.D. filed for bankruptcy in 2018.

<sup>2</sup>The plant was shut down in 2016. It was expected to resume operations in May or June of 2018.

<sup>3</sup>The refinery was shut down in 2013 and remained closed in 2018.