



# 2019 Minerals Yearbook

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**TAIWAN [ADVANCE RELEASE]**

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# THE MINERAL INDUSTRY OF TAIWAN

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In 2019, the production of mineral commodities—notably dolomite, iron and steel, refined lead, marble, natural gas, refined petroleum, industrial sand and gravel, and serpentine—represented only a minor part of the economy of Taiwan (BP p.l.c., 2020, p. 28; Bureau of Mines, 2020, p. 18–19; Tuck, 2020). The legislative framework for the mineral sector in Taiwan is provided by the Mining Act of 1930 and its amendments in 2003. 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 Taiwan can be found in previous editions of the U.S. Geological Survey Minerals Yearbook, volume III, Area Reports—International—Asia and the Pacific, which are available at <https://www.usgs.gov/centers/nmic/asia-and-pacific>.

## References Cited

- BP p.l.c., 2020, BP statistical review of world energy 2020: London, United Kingdom, BP p.l.c., June, 65 p. (Accessed July 19, 2020, at <https://www.bp.com/content/dam/bp/business-sites/en/global/corporate/pdfs/energy-economics/statistical-review/bp-stats-review-2020-full-report.pdf>.)
- Bureau of Mines [Taiwan], 2020, Annual statistical report of mineral [sic] 2019: Taipei, Taiwan, Bureau of Mines, June, 96 p. (Accessed May 10, 2021, at <https://www.mine.gov.tw/Download/PLInfo/P00002054A.pdf>.)
- Tuck, C.A., 2020, Iron and steel: U.S. Geological Survey Mineral Commodity Summaries 2020, p. 82–83.

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

(Metric tons, gross weight, unless otherwise specified)

Commodity <sup>2</sup>		2015	2016	2017	2018	2019
<b>METALS</b>						
<b>Iron and steel:</b>						
Pig iron	thousand metric tons	14,370	14,890 <sup>r</sup>	14,361 <sup>r</sup>	14,841 <sup>r</sup>	14,500
<b>Steel:</b>						
Raw steel	do.	21,392	21,751	22,438 <sup>r</sup>	23,240 <sup>r</sup>	22,065
Products, rolled	do.	25,019	26,639	27,664	28,513	28,500 <sup>e</sup>
Lead, refinery, secondary		46,000	48,000	48,000	58,000	55,000
<b>INDUSTRIAL MINERALS</b>						
Cement, hydraulic	thousand metric tons	13,445	12,126	10,876	10,939	11,254
Clay, kaolin		732	4,035	1,665	20	500
Lime		209,118	214,046	247,468	263,283	294,132
Mica		8,287	1,879	750	2,970	3,312
Sand and gravel, industrial, unspecified		132,469	175,644	139,274	57,797	70,060
Sodium, compounds, caustic soda		1,705,451	1,708,555	1,850,549	1,891,652	1,916,768
<b>Stone, construction:</b>						
<b>Crushed:</b>						
Dolomite		22,349	22,005	13,357	13,419	18,753
Limestone		352	17	50	50	704
Marble	thousand metric tons	17,997	15,090	15,662	15,637	16,528
Serpentine		120,755	91,578	60,481	83,654	31,205
<b>Dimension:</b>						
Limestone		742 <sup>r</sup>	1,422 <sup>r</sup>	2,940 <sup>r</sup>	70 <sup>r</sup>	105
Marble		14,326	8,975	13,264	13,150	11,425
Serpentine		13,209 <sup>r</sup>	10,443 <sup>r</sup>	11,591 <sup>r</sup>	12,741 <sup>r</sup>	5,589
Sulfur, byproduct, natural gas and petroleum, S content		211,219	163,768	173,963	169,698	195,358
Talc		162	250	--	17	6
<b>MINERAL FUELS AND RELATED MATERIALS</b>						
Coke, metallurgical	thousand metric tons	6,021	6,226 <sup>r</sup>	6,055 <sup>r</sup>	NA <sup>r</sup>	NA
Natural gas	million cubic meters	374	334	284	215	190
<b>Petroleum:</b>						
Crude	thousand 42-gallon barrels	58	53	34	29	24
<b>Refinery:</b>						
Distillate fuel oil	do.	105,931	102,881	100,707	108,777	112,548
Lubricants	do.	1,578	1,412	1,167	1,179	1,112

<sup>e</sup>Estimated. <sup>r</sup>Revised. do. Ditto. NA Not available. -- Zero.

<sup>1</sup>Table includes data available through July 7, 2020. All data are reported unless otherwise noted. Estimated data are rounded to no more than three significant digits.

<sup>2</sup>In addition to the commodities listed, mined gold and refined nickel may have been produced, but available information was inadequate to make reliable estimates of output.

TABLE 2  
TAIWAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2019

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies	Location of main facilities	Annual capacity <sup>e</sup>
Cement		Asia Cement Corp.	Plant in Hsinchu County	1,800
Do.		do.	Plant in Hualien County	4,020
Do.		Chia Hsin Cement Corp.	Plant in Kaohsiung County	1,860
Do.		Chien Tai Cement Co. Ltd.	do.	1,720
Do.		Lucky Cement Corp.	Plant in Taoyuan County	2,000
Do.		Southeast Cement Corp.	Plant in Kaohsiung City	1,090
Do.		do.	Plant in Chutung, Hsinchu County	1,400
Do.		Taiwan Cement Corp. (TCC)	Plant in Keelung City	1,600
Do.		do.	Plant in Hualien County	5,600
Do.		do.	Plant in Yilan County	3,400
Do.		Universal Cement Corp.	Plant in Kaohsiung City	1,550
<b>Iron and steel:</b>				
Pig iron		China Steel Corp.	do.	9,900
Do.		Dragon Steel Corp. (China Steel Corp.)	Plant in Taichung City	6,200
Raw steel		An Feng Steel Co. Ltd.	Plant in Kaohsiung City	2,000
Do.		China Steel Corp.	do.	9,900
Do.		Dragon Steel Corp. (China Steel Corp.)	Plant in Taichung City	6,200
Do.		Feng Hsin Iron and Steel Co. Ltd.	do.	1,200
Do.		Hai Kwang Enterprise Corp.	Plant in Kaohsiung City	600
Do.		Tang Eng Stainless Steel Plant	do.	300
Do.		Yieh Hsing Enterprise Co. Ltd.	do.	450
Do.		Yieh Phui Enterprise Co. Ltd.	do.	1,300
Do.		Yieh United Steel Co.	do.	1,000
Lead, metal, secondary		ACME Metal Enterprise Co. Ltd.	Plant in Taipei	12
Do.		Thye Ming Industrial	Plant in Kaohsiung City	50
Mica		Private owner	Mine in Taitung County	4
Natural gas	million cubic meters	Chinese Petroleum Corp. (CPC)	Gasfields in Chuhuangkeng, Guantian, Jinshui, Qingcao Lake, and Mt. Tiezhen	200
Nickel, metal		Taiwan Nickel Refining Corp.	Plant <sup>1</sup> in Kaohsiung City	18
<b>Petroleum:</b>				
Crude	thousand 42-gallon barrels	Chinese Petroleum Corp. (CPC)	Oilfields in Chuhuangkeng and Tungtzechiao	60
Refinery products	thousand 42-gallon barrels per day	do.	Refinery in Dalin, Chiayi County	300
Do.	do.	do.	Refinery <sup>2</sup> in Kaohsiung City	220
Do.	do.	do.	Refinery in Taoyuan City	200
Do.	do.	Formosa Plastics Group	Refinery in Yunlin County	450
Stone, marble		Hualien Marble Quarry (Retired Servicemen's Engineering Agency)	Quarry in Hualien County	20,000
Sulfur		China Petrochemical Development Corp.	Dash and Xiaogang plants in Kaohsiung City and Toufen plant in Toufen City	280

<sup>e</sup>Estimated; estimated data are rounded to no more than three significant digits. Do., do. Ditto.

<sup>1</sup>On care-and-maintenance status since 2017.

<sup>2</sup>Closed in 2016.