



# 2023 Minerals Yearbook

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**IRAN [ADVANCE RELEASE]**

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# THE MINERAL INDUSTRY OF IRAN

By Iman Salehi Hikouei

In 2023, Iran was the world's second-ranked producer of direct-reduced iron (DRI), accounting for 24.6% of the world's output; the second-ranked producer of mined gypsum and strontium (tied with Spain), 10.2% (estimated) and 39.3% (estimated), respectively; the third-ranked producer of feldspar, 9.3% (estimated); the sixth-ranked producer of barite (excluding the United States; tied with Laos), 3.7%; the sixth-ranked producer of cement and iron ore (Fe content), 1.7% and 3.4% (estimated), respectively; the seventh-ranked producer of bentonite and kaolin, 4.2% (estimated) and 4.7% (estimated), respectively; and the ninth-ranked producer of molybdenum, 1.0% (estimated). The country was the world's third-ranked producer of natural gas after the United States and Russia, accounting for 6.2% of world output, and the seventh-ranked producer of crude petroleum and condensate, accounting for a combined 4.8% of the world's output (table 1; Energy Institute, 2024, p. 23, 37; Midrex Technologies Inc., 2024, p. 9; Barry, 2025; Crangle, 2025; Hatfield, 2025a, b; Kim, 2025; Polyak, 2025; Simmons, 2025; Tuck, 2025).

In 2023, Iran held the world's sixth-largest feldspar reserves, the sixth-largest fluorspar reserves, and the eighth-largest iron ore (crude ore and Fe content) reserves. The country was a member of the Organization of the Petroleum Exporting Countries (OPEC). According to OPEC, Iran had the world's second-largest proven natural gas reserves after Russia by yearend 2023 (Londono, 2024a, b; Organization of the Petroleum Exporting Countries, 2024, p. 7, 76; Tuck, 2024).

## Minerals in the National Economy

In 2023, Iran's nominal gross domestic product (GDP) was estimated to be \$403.5 billion. The country's real GDP increased by 5.0% in 2023 compared with an increase of 3.8% in 2022. The GDP growth in recent years was due to increased hydrocarbon production. The country's average price of crude petroleum decreased to \$83.1 per barrel in 2023 compared with \$99.9 per barrel in 2022. The mining sector's share of the country's GDP was 1.4% in 2023. The value added of the mining and industrial sectors increased by 4.5% in 2023 compared with that in 2022 (Minews, 2023; International Monetary Fund, 2024; Madannews, 2024; Organization of the Petroleum Exporting Countries, 2024, p. 16, 66).

## Government Policies and Programs

The Ministry of Industry, Mine, and Trade (MIMT) is responsible for issuing mining and quarrying permits and promoting investment opportunities in the minerals sector. The Government-owned holding company Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) is responsible for the formulation and implementation of the country's policies on mineral exploration and mining, mine and plant construction and development,

and royalty rates on mineral production. The Mining Act of 1998 and amendments to the Mining Act of 2013 govern the activities of the mineral sector in Iran. In December 2022, the Government issued law No. 167010/T60242, which authorized the unrestricted import of precious metals such as gold, silver, and platinum by foreign investors and travelers (Majlis, 2022; Iranian Mines and Mining Industries Development and Renovation Organization, undated).

## Production

Notable increases in Iran's minerals production in 2023 compared with those of 2022 included that of mined manganese (gross weight), by 151%; mined gold (Au content), by 40% (estimated); mined molybdenum (gross weight), by 37%; potash, by 30% (estimated); crude petroleum, by 18%; refinery copper (primary), by 15%; natural gas liquids, by 14%; chromite ore, by 14% (estimated); chromite concentrate (gross weight), by 13% (estimated); iron ore (Fe content), by 12%; iron ore (gross weight), by 12%; hydraulic cement, by 11%; and copper (smelter, primary), by 11%. Notable decreases in production included that of ferrochromium, by 33% (estimated); coal (metallurgical), by 32%; talc, by 26% (estimated); copper (smelter, secondary), by 25%; copper (refinery, secondary), by 22%; and phosphate rock ore (P<sub>2</sub>O<sub>5</sub> content), by 12% (estimated). Data on mineral production are in table 1.

## Structure of the Mineral Industry

The Government controlled most large-capacity mineral companies through IMIDRO. The leading IMIDRO subsidiaries were Iran International Engineering Co. (IRITEC), Iran Minerals Production and Supply Co. (IMPASCO), IRASCO, Mehdiabad Barite, Lead, and Zinc Complex, Mobarakeh Steel Co. (MSC), National Iranian Copper Industries Co. (NICICO), and South Aluminum Industries Complex (SALCO) (Iranian Mines and Mining Industries Development and Renovation Organization, 2024a).

Ghadir International Industries and Mines Development Co., owned by Ghadir Investment Group, was established in 2011 for exploration, production, and processing of metallic and nonmetallic minerals. The Middle East Mines & Mineral Industries Development Holding Co. (MIDHCO) was established in 2007 to develop Iran's mining and industrial sectors through managing and investing in companies involved in exploration, mining operations, and mineral processing (Ghadir International Industries and Mines Development Co., 2024; Middle East Mines Industries Development Holding Co., 2024).

The Ministry of Petroleum (MOP) oversaw major petroleum and natural gas companies in the country, including National Iranian Oil Co. (NIOC), which was responsible for exploration and production of crude petroleum and natural gas. The Atomic Energy Organization of Iran (AEOI) was engaged in

the exploration, mining, and treatment of uranium. Table 2 is a list of major mineral industry facilities (Atomic Energy Organization of Iran, 2024; Kafaei Ghasempour, 2024).

## Mineral Trade

The value of Iran's total exports was \$87 billion in 2023. Nonhydrocarbon exports decreased by 8.9% to \$51 billion in 2023 compared with those in 2022. Hydrocarbon exports increased by 8.6% to \$36 billion. The country's petrochemical exports decreased by 28.6% to \$19.4 billion owing to a decrease in the average price of these products. Exports of iron ore increased by 140% to \$1.9 billion; DRI, by 74% to \$361 million; cement, by 24% to \$169 million; ferroalloys, by 7% to \$162 million; copper ore and concentrate, by 5% to \$126 million; and clinker, by 4% to \$203 million. Exports of zinc ingots decreased by 30% to \$387 million in 2023 compared with that in 2022; aluminum ingots, by 17% to \$757 million; steel products, by 3.9% to \$1.8 billion; and lead ingots, by 1% to \$57 million. In 2023, the country's major destinations of exports were China (which received \$13.9 billion worth of exports), Iraq (\$9.2 billion), the United Arab Emirates (\$6.6 billion), Turkey (\$4.2 billion), and India (\$2.2 billion) (Chilanonline, 2024; Donya-e-ektesad, 2024a, b).

The value of Iran's total imports was \$64.3 billion in 2023. Imports of gold were \$1.9 billion, which amounted to 30 metric tons (t). The country's imports of copper ore and concentrate increased by 51% to \$4 billion in 2023 compared with those in 2022; construction stones, by 50% to \$4 billion; and aluminum ingots, by 14% to \$148 million. The country's imports of ferroalloys decreased by 58% to \$274 million; steel ingots, by 52% to \$4 billion; lead ingots, by 51% to \$10 million; and cement, by 11% to \$6 billion. In 2023, the country's major origins of imports were the United Arab Emirates (which supplied \$20.8 billion of worth imports), China (\$18.5 billion), Turkey (\$7.5 billion), India (\$1.9 billion), and Germany (\$2.2 billion) (Donya-e-ektesad, 2024a, c).

## Commodity Review

### Metals

**Bauxite and Alumina, and Aluminum.**—In 2023, Iran's production of bauxite increased to 598,599 t from 571,680 t in 2022, and that of alumina decreased to 222,138 t from 225,942 t. The country's production of primary aluminum increased to 635,597 t in 2023 from 632,166 t in 2022. From March 21, 2023, to March 20, 2024, SALCO produced 277,679 t of primary aluminum, Iranian Aluminium Co. (IRALCO) produced 174,662 t, Almahdi Aluminium Co. (AAC) produced 147,055 t, and Iran Alumina Co. (IAC) produced 36,201 t. Iran's aluminum and alumina production capacities were about 827,000 metric tons per year (t/yr) and 280,000 t/yr, respectively (tables 1, 2; ISNA, 2024b).

**Copper.**—Iran's production of primary copper (smelter) increased to 279,700 t in 2023 compared with 252,700 t in 2022. Copper concentrate production was mainly from the Sarcheshmeh copper complex, which produced 738,665 t (gross weight) in 2023; the Sungun Mine, 324,304 t; and the

Meiduk Mine, 166,440 t. Iran's proved and probable copper ore reserves increased to more than 20 billion metric tons (Gt) in 2023 owing to new discoveries, such as the Seridoon deposit in Kerman Province. The Seridoon deposit had resources of 3.7 Gt of copper ore. The deposit had reserves of 1.0 Gt of copper ore grading 0.37% Cu. NICICO started construction on the Seridoon project in March 2023, which would have a production capacity of 550,000 t/yr of copper concentrate. The project was scheduled for completion in 2027 (table 1; Iranian Mines and Mining Industries Development and Renovation Organization, 2023b, 2024c; Minews, 2024a).

An expansion project at the Sarcheshmeh copper complex started in 2018. The project was expected to increase copper concentrate production by 80,000 t/yr through copper slag flotation. The project was expected to be completed in 2024. In 2023, the Sarcheshmeh copper complex started two additional expansion projects (Phases 3 and 4). Phases 3 and 4 together would increase production capacity by 622,000 t/yr of copper concentrate grading 22% copper and 6,115 t/yr of molybdenum concentrate grading 54% molybdenum. The projects were expected to cost \$813 million and be completed in 2027 (IRNA, 2024; National Iranian Copper Industries Developments & Engineering Co., 2024b).

The Dar Aloo project in Kerman Province, owned by NICICO, was 93% complete in 2023 and scheduled for completion in 2024. The project would have a production capacity of 100,000 t/yr of copper concentrate grading 24.5% copper. The Dare Zar project in Kerman Province, owned by NICICO, was 95% complete in 2023 and was expected to be fully operational in 2024. The project would have a production capacity of 143,000 t/yr of copper concentrate and was expected to cost \$172 million (Non-ferrous Metals and Mines Trading Services Co., 2023; IRIB, 2024; Minews, 2024b; National Iranian Copper Industries Developments & Engineering Co., 2024a).

**Gold.**—Iran's gold production increased to 9,800 kilograms (kg) in 2023 compared with 7,000 kg (estimated) in 2022. The country's leading gold producer, Zarshouran Gold Mine and Mining Industries Development Co., was wholly owned by IMIDRO and is 31 kilometers (km) northeast of Takab in West Azerbaijan Province. The company's production of mined gold (Au content) increased to 963 kg in 2023 from 941 kg in 2022. The Mouteh Mine and the Hiran Mine produced 246 kg and 200 kg of gold (Au content), respectively. Pars Tamin Mines Development Co., which was a subsidiary of Social Security Investment Co. (SSIC), started the Anjirak gold project in Taftan in Sistan and Baluchestan Province in April 2023. The project would have an annual production capacity of 832 kg of gold and was scheduled for completion in 2024 (tables 1, 2; Iran Minerals Production and Supply Co., 2023, p. 42, 48, 65; 2024, p. 35–36; ISNA, 2024a).

**Iron Ore.**—Iron ore production (gross weight) increased to 87.9 Mt in 2023 from 78.3 Mt in 2022. Sangan Iron Ore Co.'s production increased by 2.7% to 22.2 Mt in 2023 compared with that in 2022. The company, owned by National Iranian Steel Co. (NISCO), was the leading iron ore producer in the country in 2023. Sangan Mine, which is in Khorasan Razavi Province, had a production capacity of 25 million metric tons per year (Mt/yr) of iron ore. Khorasan Steel Co. had a project

at the Sangam Mine to build an iron ore concentration plant. The project was 42% complete in 2023 and expected to have a production capacity of 2.5 Mt/yr of iron ore concentrate. Other leading iron ore producers included Gohar Zamin Iron Ore Co., Gol Gohar Iron Ore Co., and Chadormalu Mining and Industrial Co., which produced 15.5 Mt, 10.8 Mt, and 8.5 Mt, respectively, in 2023. According to IMIDRO, Iran's iron ore reserves were about 3.8 Gt by yearend 2023 (tables 1, 2; Farda-ye-eghtesad, 2024; Iranian Mines and Mining Industries Development and Renovation Organization, 2023a; 2024b, i).

Gol Gohar region, located 50 km southwest of Sirjan in Kerman Province, had five major iron ore mines: Gol Gohar 1, which was owned by Gol Gohar Iron Ore Co. and had proven reserves of 228 Mt of iron ore; Gol Gohar 2, which was owned by Gohar Pouyesh Gaam Mining & Industrial Co. and had 63 Mt; Gol Gohar 3, which was owned by Gohar Zamin Iron Ore Co. and had 640 Mt; Gol Gohar 4, which was owned by MIDHCO and had 70 Mt; and Gol Gohar 5, which was owned by Mahan Industries & Mines Technology Development Co. and had 38 Mt. Iron ore production of Gol Gohar 1 increased by 15% to 10.8 Mt in 2023 from that in 2022, that of Gol Gohar 2 increased by 43% to 2.0 Mt, that of Gol Gohar 3 increased by 28% to 15.4 Mt, that of Gol Gohar 4 increased by 180% to 5.9 Mt, and that of Gol Gohar 5 increased by 48% to 3.7 Mt (table 2; Iran Minerals Production and Supply Co., 2023, p. 60; 2024, p. 36, 54; Mozayede Monaghese, undated).

**Iron and Steel.**—Iran's production of DRI decreased to 33.4 Mt in 2023 from 32.9 Mt in 2022. Khouzestan Steel Co. (KSC)'s Zamzam-3 project in Khouzestan Province, owned by IMIDRO, reached its final phase of completion in 2023 and was scheduled for completion in 2024. The project would have a production capacity of 2 Mt/yr of DRI and have 200 direct and 450 indirect employees. Baft Steel Co., owned by IMIDRO, had an expansion project in Baft, Kerman Province, to increase the company's DRI production capacity to 1.6 Mt/yr from 800,000 t/yr. The project was scheduled for completion in 2024 and expected to have 500 employees (tables 1, 2; Iranian Mines and Mining Industries Development and Renovation Organization, 2024g, j).

Iran's production of raw steel increased to 32.1 Mt in 2023 from 30.4 Mt in 2022. The increase was due primarily to improvements in electricity supply management for steel plants. The top four raw steel producers in Iran were MSC, which had a production capacity of 7.2 Mt/yr; KSC, 3.8 Mt/yr; Esfahan Steel Co. (ESCO), 3.6 Mt/yr; and South Kaveh Steel Co. (SKS), 2.4 Mt/yr. MSC's raw steel production increased by 1.6% to 7.33 Mt in 2023 compared with that in 2022, and that of SKS increased by 9.7% to 1.57 Mt. KSC's raw steel production decreased by 5.0% to 3.40 Mt in 2023 compared with that in 2022, and that of ESCO decreased by 5.0% to 2.46 Mt. The country's production of billet and rebar increased by 3.2% to 9.6 Mt and by 21.4% to 3.4 Mt, respectively; whereas, the country's production of ingot and slab decreased by 19.3% to 41,836 t and by 0.8% to 11.4 Mt, respectively (tables 1, 2; Iranian Mines and Mining Industries Development and Renovation Organization, 2023d, e; 2024d, f).

**Lead and Zinc.**—Lead (Pb content of concentrate) production increased by 3.4% to 60,000 t in 2023 from that in

2022. The leading lead-zinc mines in Iran were the Anguran Mine in Zanjan Province and the Mehdiabad Mine in Yazd Province. The Anguran Mine was owned by IMPASCO and Iran Zinc Mines Development Co. (IZMDC). The mine's production of lead-zinc ores from open pit decreased by 2.8% from 2022 to 1 Mt in 2023. The Mehdiabad Mine was owned by IMIDRO and had a production capacity of 700,000 t/yr of lead-zinc ore. The mine produced 302,571 t of zinc oxide from March 21, 2023, to March 20, 2024, compared with 300,252 t during the same period in the previous year. Mehdiabad Industrial Pioneers of Lead and Zinc Co. had an expansion project at the Mehdiabad Mine, which was 55% complete in 2023. The project was expected to increase the mine's production capacity by 800,000 t/yr of zinc concentrate and 80,000 t/yr of lead-silver concentrate. The project was designed to have three phases, and the first phase was 92% complete in 2023. The first phase would add 200,000 t/yr of zinc concentrate to the mine's current capacity and was expected to be completed in 2024. The Mehdiabad Mine had ore reserves of about 170 Mt at an average grade of 4.5% zinc and 1.6% lead. IMPASCO's production of lead concentrate at the Nakhlak lead-zinc plant at Anarak in Isfahan Province increased by 43.4% from 2022 to 13,774 t in 2023 (tables 1, 2; Iranian Mines and Mining Industries Development and Renovation Organization, 2023c, 2024i; Iran Minerals Production and Supply Co., 2024, p. 34, 37, 46, 52).

### *Industrial Minerals*

**Barite.**—Iran's production of barite was 300,000 t (estimated) in 2023. The Mehdiabad Barite, Lead, and Zinc Complex was the primary producer of barite in Iran; it had a production capacity of 500,000 t/yr. The complex had reserves of 69 Mt of barite and produced 118,000 t of barite in 2023 (tables 1, 2; Iranian Mines and Mining Industries Development and Renovation Organization, 2024e; Iran Minerals Production and Supply Co., 2024, p. 52).

**Cement.**—Iran's production of cement increased by 11.2% from 2022 to 71.4 Mt in 2023, owing to increased domestic demand. The country's cement consumption increased by 10.5% to 66.2 Mt in 2023, and clinker production increased to 76.6 Mt in 2023 compared with 73.3 Mt in 2022. Iran's total clinker production capacity was 86.5 Mt/yr in 2023. The country's exports of cement and clinker increased by 7.6% from 2022 to 14 Mt in 2023. The destinations for the exports included Afghanistan, Iraq, Pakistan, Russia, and the United Arab Emirates. The leading cement producer in Iran was Fars and Khouzestan Cement Co., which had a production capacity of about 30 Mt/yr. The company's production of cement increased to 15.5 Mt in 2023 compared with 14.1 Mt in 2022. The company's cement exports decreased to 2.9 Mt from 3.3 Mt (tables 1, 2; Fars and Khouzestan Cement Co., 2023, p. 11; 2024, p. 11, 19; Bahar Trade Co., 2024).

**Gypsum.**—Iran's production of gypsum in 2023 was estimated to be 16 Mt. The leading Province for gypsum production in Iran was Semnan Province in north-central Iran, which was estimated to have a production capacity of more than 16 Mt/yr of gypsum. Semnan Province had 91 active gypsum mines, of which the total reserves were 192 Mt of gypsum at yearend 2023. Other top Provinces for gypsum production were



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

(Metric tons, gross weight, unless otherwise specified)

Commodity <sup>2</sup>	2019	2020	2021	2022	2023
METALS					
Aluminum:					
Bauxite	848,202	846,452	689,149	571,680	598,599
Alumina	234,000 <sup>c</sup>	238,000 <sup>c</sup>	230,000 <sup>c</sup>	225,942	222,138
Metal, primary	258,000 <sup>c</sup>	425,000 <sup>c</sup>	559,647	632,166	635,597
Antimony, mine, Sb content <sup>c</sup>	400	400	500	500	500
Chromium, mine, chromite:					
Ore	230,000	215,000	230,000 <sup>c</sup>	290,000 <sup>c</sup>	330,000 <sup>c</sup>
Concentrate:					
Gross weight	17,200 <sup>r</sup>	47,400 <sup>r</sup>	47,400	60,000 <sup>r,c</sup>	68,000 <sup>c</sup>
Cr <sub>2</sub> O <sub>3</sub> content <sup>r,c</sup>	11,800	32,400	32,400	41,000	46,500
Copper:					
Mine:					
Ore, 0.6% to 1.2% Cu:					
Gross weight	52,000,000	52,500,000	53,000,000	54,000,000	54,000,000
Cu content	307,300	309,200	315,900	322,000 <sup>c</sup>	322,000 <sup>c</sup>
Concentrates, 29% to 35% Cu, Cu content	295,800	297,100	316,800	320,900	303,700
Solvent extraction <sup>3</sup>	16,400	16,400	22,800	23,300	22,500
Smelter:					
Primary	201,100	223,300	246,800	252,700	279,700
Secondary	109,100	127,500	114,400	96,300	72,400
Refinery:					
Primary:					
Leaching, electrowon	16,400	16,400	22,800	23,300	22,500
Other	160,400	167,500	192,000	206,400	236,900
Secondary	84,700	95,500	88,700	78,400	61,200
Ferroalloys, ferrochromium	12,000	10,000 <sup>c</sup>	17,000 <sup>c,r</sup>	15,000 <sup>c</sup>	10,000 <sup>c</sup>
Gold, mine, Au content kilograms	8,500 <sup>c</sup>	7,000 <sup>c</sup>	7,000 <sup>c</sup>	7,000 <sup>c</sup>	9,800
Iron ore, mine:					
Gross weight thousand metric tons	64,275	77,973	82,717	78,326	87,860
Fe content do.	40,800	51,100	54,200	51,300	57,500
Iron and steel:					
Direct-reduced iron do.	28,522 <sup>r</sup>	30,818 <sup>r</sup>	31,632 <sup>r</sup>	32,897 <sup>r</sup>	33,396
Pig iron do.	2,530	2,466	3,200 <sup>r</sup>	3,500 <sup>r,c</sup>	3,540 <sup>c</sup>
Steel, raw steel, ingots and castings do.	25,609	28,990	27,901	30,433	32,108
Lead:					
Mine, concentrate: <sup>c</sup>					
Gross weight	96,000	100,000	96,000	100,000	100,000
Pb content	52,000 <sup>r</sup>	52,000	58,000 <sup>r</sup>	58,000 <sup>r</sup>	60,000
Refinery:					
Primary <sup>c</sup>	25,000	23,400	24,800	30,000	29,000
Secondary	98,000 <sup>c</sup>	97,000 <sup>c</sup>	96,000 <sup>r</sup>	96,000 <sup>r</sup>	97,000
Magnesium, metal, primary <sup>c</sup>	--	--	5,000	5,000	5,000
Manganese, mine:					
Gross weight	131,000 <sup>c</sup>	25,000	106,000	77,000	193,000
Mn content	52,500 <sup>c</sup>	7,000	29,000	21,000	52,000
Molybdenum, mine, concentrate:					
Gross weight	6,138	4,285	6,253	7,229	9,913
Mo content	2,073	2,389	2,022	2,401	2,984
Zinc:					
Mine, concentrate: <sup>c</sup>					
Gross weight	300,000	300,000	300,000	300,000	300,000
Zn content	150,000	200,000 <sup>r</sup>	200,000 <sup>r</sup>	200,000 <sup>r</sup>	200,000
Smelter, primary	200,000 <sup>r,c</sup>	200,000 <sup>r,c</sup>	200,000 <sup>r,c</sup>	208,000	200,000 <sup>c</sup>

See footnotes at end of table.

TABLE 1—Continued  
 IRAN: PRODUCTION OF MINERAL COMMODITIES<sup>1</sup>

(Metric tons, gross weight, unless otherwise specified)

Commodity <sup>2</sup>	2019	2020	2021	2022	2023	
<b>INDUSTRIAL MINERALS</b>						
Barite	224,412	288,341	290,000	300,000 <sup>e</sup>	300,000 <sup>e</sup>	
Boron, borax <sup>e</sup>	2,500	2,500	2,500	2,500	2,500	
Celestite	129,040	198,779 <sup>r</sup>	200,000 <sup>e</sup>	200,000 <sup>e</sup>	200,000 <sup>e</sup>	
Cement, hydraulic	thousand metric tons	60,400	68,300	62,700 <sup>r</sup>	64,200 <sup>r</sup>	71,400
Clay: <sup>e</sup>						
Bentonite		760,000	715,000	720,000	850,000	850,000
Kaolin		1,620,000	2,050,000	2,100,000	2,100,000	2,100,000
Feldspar <sup>e</sup>		2,370,000	1,910,000	2,803,515 <sup>r</sup>	3,090,000 <sup>r</sup>	3,100,000
Fluorspar		49,705	116,227 <sup>r</sup>	120,727 <sup>r</sup>	121,000 <sup>r,e</sup>	121,000 <sup>e</sup>
Gemstones, turquoise	kilograms	21,000 <sup>e</sup>	42,302	42,000 <sup>e</sup>	42,000 <sup>e</sup>	42,000 <sup>e</sup>
Gypsum, mine	thousand metric tons	16,147	16,000 <sup>e</sup>	16,000 <sup>e</sup>	16,000 <sup>e</sup>	16,000 <sup>e</sup>
Iodine		682	700 <sup>e</sup>	700 <sup>e</sup>	700 <sup>e</sup>	700 <sup>e</sup>
Lime <sup>e</sup>	thousand metric tons	3,450	3,900	3,900	4,000	4,000
Magnesite		153,525	273,549 <sup>r</sup>	225,236 <sup>r</sup>	216,000 <sup>r,e</sup>	216,000 <sup>e</sup>
Mica <sup>e</sup>		1,120	1,120	1,100	1,100	1,000
Nitrogen, N content: <sup>e</sup>						
Ammonia		3,500,000	3,600,000	4,000,000	4,400,000	4,200,000
Urea		2,800,000	2,800,000	3,400,000	3,900,000	3,600,000
Perlite		32,000 <sup>e</sup>	53,000 <sup>e</sup>	77,000 <sup>e</sup>	6,709 <sup>r</sup>	7,000 <sup>e</sup>
Phosphate rock, ore:						
Gross weight <sup>e</sup>		270,000	280,000	220,000	220,000	200,000
P <sub>2</sub> O <sub>5</sub> content		102,000 <sup>e</sup>	105,000 <sup>e</sup>	83,900	85,000 <sup>e</sup>	75,000 <sup>e</sup>
Potash	thousand metric tons	37	37	37 <sup>e</sup>	40	52 <sup>e</sup>
Salt	do.	2,700	3,200 <sup>e</sup>	2,700 <sup>e</sup>	2,700 <sup>e</sup>	2,700 <sup>e</sup>
Sulfur <sup>e</sup>	do.	1,540	1,400	1,640	2,000	2,000
Talc <sup>e</sup>		45,000	60,000	75,000	94,000 <sup>r</sup>	70,000
<b>MINERAL FUELS AND RELATED MATERIALS</b>						
Coal:						
Bituminous <sup>e</sup>	thousand metric tons	142	142	150	150	150
Metallurgical	do.	1,586	1,670	1,298	2,273	1,542
Coke, metallurgical	do.	1,160 <sup>e</sup>	1,270 <sup>e</sup>	1,300 <sup>e</sup>	1,265	1,270 <sup>e</sup>
Natural gas, dry basis <sup>4</sup>	million cubic meters	241,730	249,630	257,119	262,261	275,000
Natural gas liquids	thousand 42-gallon barrels	177,755 <sup>r</sup>	181,040 <sup>r</sup>	212,430 <sup>r</sup>	231,045 <sup>r</sup>	263,530
Petroleum:						
Crude <sup>5</sup>	do.	1,243,555	1,138,800	1,333,345	1,439,925 <sup>r</sup>	1,701,630
Refinery, throughput	do.	766,865	800,445	855,560	872,715 <sup>r</sup>	940,970
Uranium, mine, U content <sup>e</sup>		71	71	71	71	71

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

<sup>1</sup>Table includes data available through January 6, 2025. 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, bromine, caustic soda, clay (unspecified), crude construction materials (such as sand and shell), crushed stone, dimension stone, dolomite, ferrosilicon, hafnium oxide, ilmenite, iron oxide pigments, limestone, methanol, nepheline syenite, pumice, quartzite, selenium, silica, silicomanganese, silver, soda ash, zeolites, and zirconium metal 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.

<sup>4</sup>Source: Organization of the Petroleum Exporting Countries, 2023.

<sup>5</sup>Source: Energy Institute, 2023.

TABLE 2  
IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Alumina	Iran Alumina Co. (IAC) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Plant northeast of Jajarm, North Khorasan Province	280.
Aluminum	Almahdi Aluminium Co. (AAC) [(Iranian Mines and Mining Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Bandar Abbas Aluminium Smelter, Hormozgan Province	257.
Do.	Iranian Aluminium Co. (IRALCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO), <sup>3</sup> 60%, and a joint venture of Development Investment Co. and a subsidiary of Industrial Mehr Finance & Credit Institution, 40%]	Arak Aluminium Smelter, Markazi Province	230.
Do.	Iran Alumina Co. (IAC) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Jajarm Aluminum Complex, North Khorasan Province	40.
Do.	South Aluminum Corp. (SALCO) [Ghadir Investment Co., 51%, and Iranian Mines and Mining Development and Renovation Organization (IMIDRO), <sup>3</sup> 49%]	Smelter near city of Lamerd, Fars Province	300.
Antimony	Gol Gohar Mining and Industrial Co. [Omid Investment Management Corp., 38.83%; Mines and Metals Development Co., 23.04%; Mobarakeh Steel Co. (MSC), 6.17%; others, 31.96%]	Sefidabeh Antimony Complex (mine and processing plant), 190 km north of Zahedan, Sistan va Baluchestan Province	NA.
Do.	Ubar Mining Int'l LLC, 70%, and Part Goyal City Co., 30%	Sirzar Mine, 125 km southwest of Mashhad, Razavi Khorasan Province	NA.
Barite	Iran Barite Group	Ardakan and Haftehr Mines in Yazd Province; Chenaroreh Mine in Markazi Province; Hajiabad, Mazandaran, and Tang Dozan Mines in the Esfahan Province; Verben Mine in Qazvin Province	NA.
Do.	Mehdiabad Barite, Lead and Zinc Complex [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Mehdiabad Mine, 115 km southeast of Yazd, Yazd Province	500.
Bauxite	Iran Alumina Co. (IAC) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Jajarm Mine, about 15 km northeast of Jajarm, North Khorasan Province	900.
Celestite	Kani Goharan Kimia Co. (KGK)	Mine in Bandar Abbas, Hormozgan Province	72.
Cement	Abadeh Cement Co.	Plant at Abadeh, Fars Province	550.
Do.	Abyek Cement Co. (Fars & Khouzestan Cement Co.)	Plant at Abyek, 80 km northwest of Tehran, Qazvin Province	3,600.
Do.	Anarak Special Cement Co.	Plant at Anarak, Esfahan Province	500.
Do.	Ardebil Cement Co. (Espandar Cement Investment Co.)	Plant at Namin, Ardabil Province	1,220.
Do.	Ardestan Cement Co.	Plant north of Isfahan, Esfahan Province	1,300.
Do.	Asia West Cement Complex Co. (AWCC)	Torbat-e-Jam Plant, Razavi Khorasan Province	1,500.
Do.	Azar-Abadegan Khoys Cement Co.	Plant in West Azerbaijan Province	1,095.
Do.	Behbahan Cement Co. (Fars & Khouzestan Cement Co.)	Plant at Behbahan, Khuzestan Province	1,080.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Cement—Continued	Benvid White Cement Co. (Bank Melli Iran Investment Co.)	Plant at Benvid, Esfahan Province	219.
Do.	Bojnourd Cement Co. (Fars & Khuzestan Cement Co.)	Plant, about 37 km from Bojnourd, North Khorasan Province	1,965.
Do.	Darab Cement Co. [General public (Justice shares), 50%, and Bank Melli Iran Investment Co., 29%]	Plant, about 190 km southeast of Shiraz, Fars Province	1,123.
Do.	Dashtestan Cement Co. (Ghadir Investment Co.)	Plant at Borazjan, Bushehr Province	1,400.
Do.	Doroud Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Doroud, Lorestan Province	960.
Do.	East White Cement Co.	Plant at Mashhad, Razavi Khorasan Province	330.
Do.	Ekbatan Cement Co. (Espandar Cement Investment Co.)	Plant at Ekbatan, Tehran Province	108.
Do.	Estahban Cement Co.	Plant, 20 km west of Estahban, Fars Province	350.
Do.	Faraz Firouzkhu Cement Co. (Espandar Cement Investment Co.)	Plant, about 180 km northeast of Tehran	1,205.
Do.	Fars Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Shiraz, Fars Province	819.
Do.	Farsnov Cement Co. (Fars & Khuzestan Cement Co.)	Plant, about 65 km southeast of Shiraz, Fars Province	936.
Do.	Firoz Kuh Co. (Bank Melli Iran Investment Co.)	Plant at Tehran, Tehran Province	1,100.
Do.	Ghaen Cement Co. (Cement Investment and Development Co., 26%; Bank Melli Iran Investment Co., 14%; others, 60%)	Plant at Qayen (Ghaen), South Khorasan Province	811.
Do.	Gharb Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Kermanshah, Kermanshah Province	1,248.
Do.	Gilan Sabz Cement Co. (Tehran Cement Co.)	Plant at Deylaman, Gilan Province	1,200.
Do.	Hegmatan Cement Co. (Tehran Cement Co., 79%)	Plant east of Razan, Hamadan Province	2,400.
Do.	Hormozgan Cement Co. (Omid Investment Management Corp.)	Plant, about 75 km west of Bandar Abbas, Hormozgan Province	1,872.
Do.	Ilam Cement Co. (Tehran Cement Co., 50%; Omid Investment Management Corp., 47%; other private, 3%)	Plant northeast of Ilam, Ilam Province	1,750.
Do.	Isfahan Cement Co.	Plant at Isfahan, Esfahan Province	1,168.
Do.	Jovein Cement Co.	Plant at Joghatay, Razavi Khorasan Province	1,400.
Do.	Karoun Cement Co.	Plant near Masjed Soleyman, Khuzestan Province	1,100.
Do.	Kavan Boukan Cement Co.	Plant at Bukan, West Azerbaijan Province	1,250.
Do.	Kavir Kashan Cement Co. (Espandar Cement Investment Co.)	Plant near Kashan, Esfahan Province	690.
Do.	Kerman Cement Co. (Bank Melli Iran Investment Co., 38%)	Plant at Kerman, Kerman Province	1,314.
Do.	Khamseh Cement Co.	Plant in Zanjan Province	1,061.
Do.	Khash Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Khash, Sistan va Baluchestan Province	820.
Do.	Khazar Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Loshan, Gilan Province	1,248.
Do.	Khuzestan Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Ramhormoz, Khuzestan Province	2,400.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Cement—Continued	Kiasar Cement Co. (Espandar Cement Investment Co.)	Plant near Sari, Mazandaran Province	690.
Do.	Kordestan Cement Co. (Ghadir Investment Co.)	Plant north of Bijar, Kordestan Province	1,500.
Do.	Lamerd Cement Co.	Plant at Lamerd, Fars Province	1,250.
Do.	Lar-e Sabzevar Cement Co.	Plant at Sabzevar, Razavi Khorasan Province	1,030.
Do.	Larestan Cement Co.	Plant in Fars Province	1,100.
Do.	Loshan Cement Co. (Tehran Cement Co., 66%)	Plant at Loshan, Gilan Province	200.
Do.	Margon Cement Co.	Plants at Kohgiluyeh and Boyer, Ahmad Province	1,000.
Do.	Mazandaran Cement Co. (Bank Melli Iran Investment Co., 60%)	Plant at Neka, Mazandaran Province	2,270.
Do.	Mehriz Tejarat Cement Co.	Plant, 55 km southeast of Mehriz, Yazd Province	1,460.
Do.	Momtazan Cement Co.	Plant at Kerman, Kerman Province	1,030.
Do.	Monde Dashti Cement Co. (Ghadir Investment Co.)	Plant in Bushehr Province	1,200.
Do.	Naeen Cement Co. (Tehran Cement Co.)	Plant in Esfahan Province	1,650.
Do.	Nahavand Cement Co. (Hegmatan Cement Co., 51.3%; Sepah Financial Group Co., 48.2%; Other, 0.45%)	Plant in Hamadan Province	1,205.
Do.	Neyriz White Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Neyriz, Fars Province	182.
Do.	Neyzar Qom Cement Co. (Espandar Cement Investment Co.)	Plant in Qom Province	1,150.
Do.	Omran Anarak Cement Co.	Plant at Delijan, Markazi Province	1,100.
Do.	Peyvand Golestan Cement Co. (Tehran Cement Co.)	Plant near Galikesh, Golestan Province	1,241.
Do.	Qeshm Cement Co.	Plant at Qeshm Island, Hormozgan Province	510.
Do.	Safaeh Cement Co.	Plant at Safaeh, Yazd Province	624.
Do.	Saman Gharb Cement Co.	Plant at Mahi Dasht, Kermanshah Province	2,300.
Do.	Sarooj Bushehr International Co. (Bank Melli Iran Investment Co.)	Plant at Kangan, Bushehr Province	1,650.
Do.	Sarooj Isfahan Cement Co.	Plant in Esfahan Province	600.
Do.	Saveh Grey Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Saveh, Markazi Province	2,738.
Do.	Saveh White Cement Co. (Fars & Khuzestan Cement Co.)	do.	365.
Do.	Sepahan Cement Co. (Ghadir Investment Co.)	Plant at Mobarakeh, Esfahan Province	3,200.
Do.	Shahrekord Cement Co.	Plant at Sefiddasht, Chahar Mahal va Bakhtiari Province	1,030.
Do.	Shahroud Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Shahroud, Semnan Province	1,872.
Do.	Shargh Cement Co. (Ghadir Investment Co.)	Plant at Mashhad, Razavi Khorasan Province	2,500.
Do.	Shomal Cement Co. (Bank Melli Iran Investment Co., 59%)	Plant at Pardis, Tehran Province	1,550.
Do.	Shomal White Cement Co. (Bank Melli Iran Investment Co., 59%)	do.	89.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Cement—Continued	Soufian Cement Co. (Fars & Khuzestan Cement Co., 50%, and Social Security Organization Investment Co., 50%)	Plant, about 33 km northwest of Tabriz, East Azerbaijan Province	2,555.
Do.	Tehran Cement Co.	Plant at Tehran, Tehran Province	5,400.
Do.	Tis Chabahar Cement Co.	Plant at Rask, Sistan va Baluchestan Province	1,000.
Do.	Urmia Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Orumiyeh, West Azerbaijan Province	2,100.
Do.	Urmia White Cement Co.	do.	180.
Do.	Yasuj Cement Co. (Fars & Khuzestan Cement Co.)	Plants at Kohgiluyeh and Boyer, Ahmad Province	230.
Do.	Yazd Bohrouk Cement Co.	Plant at Yazd, Yazd Province	1,100.
Do.	Zabol Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Zahedan, Sistan va Baluchestan Province	1,030.
Do.	Zanjan Cement Co. (Fars & Khuzestan Cement Co.)	Plant at Zanjan, Zanjan Province	660.
Do.	Zarrin Rafsanjan Cement Co.	Plant in Kerman Province	230.
Do.	Zaveh Torbat Cement Co.	Plant at Torbat e-Heydariyeh, Razavi Khorasan Province	1,092.
Chromite, concentrate, Cr <sub>2</sub> O <sub>3</sub> content	Esfandaghe Mines Co.	Abdasht Mine, Kerman Province; Suqan (Saboughan) Mine, Kerman Province; processing plant at Esfandaghe, Kerman Province	30.
Do.	Faryab Mining Co.	Faryab Mine and processing plant, Minab, Hormozgan Province	180. <sup>c</sup>
Do.	Shahab Sang Co.	Sabzan Mine, Faryab, Kerman Province	5.
Do.	NA	Furumad Mine, Shahroud, Semnan Province; Gaft processing plant, Semnan Province	6.
Do.	NA	Mir Mahmud Mine, Mayami, Semnan Province	6.
Do.	NA	Dumak Mine, Zahedan, Sistan va Baluchestan Province	2.
Coal	Central Alborz Coal Co. [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Mine in Mazandaran Province	120.
Do.	Fajr Mazinoiy Co.	Mazino Mine, Tabas, South Khorasan Province	2,000.
Do.	Iran Minerals Production and Supply Co. (IMPASCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Eastern Parvadeh Mine, Tabas, South Khorasan Province	600.
Do.	do.	Parvadeh 4 Mine, Tabas, South Khorasan Province	600.
Do.	do.	Parvadeh 2 and 3 Mines, Tabas, South Khorasan Province	500.
Coal	Iran Minerals Production and Supply Co. (IMPASCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Khomroud Mine, Ravar, Kerman Province	450.
Do.	do.	Kordobad Mine, Mazadaran Province	325.
Do.	do.	Hashouni and Pabdana Mines, Kerman Province	150.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Coal—Continued	Iran Minerals Production and Supply Co. (IMPASCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Takht and Vatan Mines, Alborz Province	150.
Do.	do.	Zemestanyurt Mine, near Azadshahr, Golestan Province	100.
Do.	Kerman Coal Co.	Eshkli Mine and Hamkar Mine, Kerman Province	620.
Do.	The Middle East Mines and Minerals Industries Development Holding Co. (MIDHCO) (Mabnaye Khavar Miyaneh Co., 15.19%; Pars Aryan Investment Co., 11.84%; Rahbord Sarmaye Iranian Co., 10.38%; Arzesh Afarinan Pasargad Group Co., 9.4%; other investors, 53.19%)	Zarand Mine, Zarand, Kerman Province	1,200.
Coke	Esfahan Steel Co. (ESCO) [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Plant about 40 km southwest of Isfahan, Esfahan Province	900.
Do.	Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup>	Plant at Savadkouh, Mazandaran Province	300.
Do.	Middle East Coke Production Co. [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Plant at Zanjan, Zanjan Province	800.
Do.	Tabas Coke Production Co. [Iranian Mines and Mining Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Plant near Tehran, Tehran Province	450.
Do.	Zarand Iranian Steel Co. (ZISCO) [The Middle East Mines and Minerals Industries Development Holding Co. (MIDHCO)]	Plant at Zarand, Kerman Province	800.
<b>Copper:</b>			
Concentrate, Cu content	Faraz Ma'aden Anarak Co.	Maskani Mine, Naeen, Esfahan Province	55.
Do.	National Iranian Copper Industries Co. (NICICO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Sarcheshmeh copper complex, south of Rafsanjan, Kerman Province	730.
Do.	do.	Sungun Mine and plant, East Azerbaijan Province	335.
Do.	do.	Meiduk Mine, 40 km northeast of Shahr-e Babak, Kerman Province	155.
Do.	do.	Che'hel Koureh Mine, 120 km Northwest of Zahedan, Sistan va Baluchestan Province	17.
Do.	do.	Qal'eh Zari Mine, about 180 km southwest of Birjand, South Khorasan Province	10.
Do.	do.	Chah Firozeh, Chah Messi, Darehzar, and Eijo copper mines, Kerman Province	NA.
Do.	Private cooperatives	Chah Musa Mine and Qal'eh Sukhteh Mine, Semnan Province	5.
Do.	Small-scale miners	Kuh Zar Mine, Semnan Province	NA.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
<b>Copper:—Continued</b>				
Smelter output		National Iranian Copper Industries Co. (NICICO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Smelter, Sarcheshmeh copper complex, south of Rafsanjan, Kerman Province	200.
Do.		do.	Smelter near Khatoonabad, Kerman Province	450.
Do.		do.	do.	120.
Refined metal		do.	Refinery, Sarcheshmeh copper complex, south of Rafsanjan, Kerman Province	210.
Do.		do.	Refinery, Sungun copper complex, East Azerbaijan Province	100.
Do.		do.	Electrowinning plant, Sarcheshmeh copper complex, south of Rafsanjan, Kerman Province	14.
Do.		do.	Electrowinning plant, Meiduk copper complex, Kerman Province	5.
Do.		The Middle East Mines and Minerals Industries Development Holding Co. (MIDHCO) (Mabnaye Khavar Miyaneh Co., 15.19%; Pars Aryan Investment Co., 11.84%; Rahbord Sarmaye Iranian Co., 10.38%; Arzesh Afarinan Pasargad Group Co., 9.4%; other investors, 53.19%)	Refinery, 20 km north of Shahr-e Babak, Kerman Province	50.
<b>Ferrous alloys:</b>				
Ferrochrome		Iran Minerals Production and Supply Co. (IMPASCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Joghatai ferrochrome complex, Razavi Khorasan Province	25.
Do.		Top Echo Co.	Plant at Rafsanjan, Kerman Province	60.
Ferrosilicon		The Middle East Mines and Minerals Industries Development Holding Co. (MIDHCO) (Mabnaye Khavar Miyaneh Co., 15.19%; Pars Aryan Investment Co., 11.84%; Rahbord Sarmaye Iranian Co., 10.38%; Arzesh Afarinan Pasargad Group Co., 9.4%; other investors, 53.19%)	Plant at Malayer, Glass Industrial Estate, Hamedan Province	12.
Do.		do.	Plant at Jokar Industrial Town, Jokar City, Hamedan Province	12.
Fluorspar		Kani Goharan Kimia Co. (KGK)	Mine in Bandar Abbas, Hormozgan Province	10.
Gemstones, turquoise	kilograms	National Iranian Copper Industries Co. (NICICO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Meiduk Mine, 40 km northeast of Shahr-e Babak, Kerman Province	36,000. <sup>e</sup>
Do.	do.	Small-scale miners of Olia and Sofla	Neyshabur Mine, Razavi Khorasan Province	42,000. <sup>e</sup>
Do.		NA	Kuh Zar Mine, Semnan Province	NA.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
<b>Gold:</b>				
Ore, Au content	kilograms	Artisanal placer operations	Neyshabur area, Razavi Khorasan Province	NA.
Do.	do.	Iran Minerals Production and Supply Co. (IMPASCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Mouteh Mine (Chah Khaton and Senjedeh pits), Esfahan Province, and Kuh-e-Zar Mine, Semnan Province	600.
Do.	do.	do.	Hirad Mine. Nehbandan, Southern Khorasan Province	200.
Do.	do.	do.	Kouhdom Mine, 110 km northeast of Ardestan, Esfahan Province	100.
Do.	do.	National Iranian Copper Industries Co. (NICICO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Combined production from various copper mines	600.
Do.	do.	Zar Kuh Mining Co.	Sari Gunay Mine, 90 km east of Sanandaj, Kordestan Province	2,000.
Do.	do.	Zarshouran Gold Mine and Mining Industries Development Co. [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Zarshouran Mine, 31 km northeast of Takab, West Azerbaijan Province	3,000.
Metal	do.	do.	Zarshouran complex, near Takab, West Azerbaijan Province	NA.
<b>Gypsum</b>				
		Afra Gypsum Hormoz Co.	Quarry at Bandar Abbas, Hormozgan Province	360.
Do.		IR Gypsum Co.	Quarry in Semnan Province	10,950.
Do.		Jazeera Gypsum Mining Co.	Quarry and plant near Bushehr City, Bushehr Province	200.
Do.		Jonoub Gypsum Co.	Quarry in Bandar Khamir, Hormozgan Province	1,200.
Do.		Kani Goharan Kimia Co. (KGK)	Quarry in Hormozgan Province	1,440.
Do.		Khak Sang Kish Co.	Quarry at Khamir, Hormozgan Province	360.
Do.		Khamir Gypsum Co.	Quarry in Hormozgan Province	1,200.
Do.		Khorasan Gypsum Co.	Quarry in Khorasan Razavi Province	1,000.
Do.		Mazandaran Semnan Gypsum Co.	Quarry in Semnan Province	1,095.
Do.		Omid Semnan Gypsum Co.	Quarry in Tehran Province	365.
Do.		Samim Derakhshan Co.	Quarry at Bandar Khamir, Hormozgan Province	1,200.
Do.		Semnan Gypsum Co.	Quarry in Semnan Province	1,825.
Do.		Ziari Holding Co. (Pardisun Gypsum Co., Sahar Gypsum Co., Simin Gypsum Semnan Co.)	do.	2,190.
<b>Iron and steel:</b>				
Iron ore, Fe content		Ario Iron Ore Mining Group	Ghadir, Kosar, Meshkat, Noor and Farsineh Mines, Yazd Province	2,500.
Do.		Chadormalu Mining and Industrial Co. [Omid Investment Management Corp., 37.6%; Mines and Metals Development Investment Co., 16.4%; Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO), <sup>3</sup> 10.4%]	Chadormalu Mine, 80 km north of Bafq, Yazd Province	16,000.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Iron and steel—Continued:			
Iron ore, Fe content —Continued	Gohar Zamin Iron Ore Co. [Gol Gohar Mining and Industrial Co., 28%; Omid Investment Management Corp., 26%; Ghadir Industries and Mines Development Co., 21%; Mines and Metals Development Investment Co., 19%; others, 6%]	Mine (Gol Gohar 3), 50 km southwest of Sirjan, Kerman Province	15,000.
Do.	Gol Gohar Iron Ore Co. [Omid Investment Management Corp., 39%; Mines and Metals Development Investment Co., 28%; Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO), <sup>3</sup> 18%]	Mine (Gol Gohar 1), 50 km southwest of Sirjan, Kerman Province	14,000.
Do.	Iran Central Iron Ore Co. [National Iranian Steel Co. (NISCO), <sup>4</sup> 100%]	Choghart Mine, 10 km northeast of Bafq, Yazd Province	5,000.
Do.	Iranian Minerals Production and Supply Co. (IMPASCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Chah Gaz Mine, about 70 km of Bafq, Yazd Province	700.
Do.	do.	Golmandeh Mine, near Ardakan, Yazd Province	NA.
Do.	do.	Mishdovan Mine, 20 km north of Bafq, Yazd Province	500.
Do.	Gohar Pouyesh Gaam Mining & Industrial Co. [Gol Gohar Mining and Industrial Co.; Mahan Industries and Mines Technology Development Co.; Sirjan Iranian Steel Co. (SISCO)]	Mine (Gol Gohar 2), 50 km southwest of Sirjan, Kerman Province	4,500.
Do.	Jalal Abad Iron Ore Complex [Zaran Iranian Steel Co. (ZISCO)]	Jalal Abad Mine, 35 km northwest of Zarand, Kerman Province	6,000.
Do.	Mahan Industries and Mines Technology Development Co. [Mahan Industries and Mines Holding]	Mine (Gol Gohar 5), 50 km southwest of Sirjan, Kerman Province	3,000.
Do.	Middle East Mines & Mineral Industries Development Holding Co. Holding Co. (MIDHCO) (Mabnaye Khavar Miyaneh Co., 15.19%; Pars Aryan Investment Co., 11.84%; RahbordSarmaye Iranian Co., 10.38%; Arzesh Afarinan Pasargad Group Co., 9.4%; other investors, 53.19%)	Mine (Gol Gohar 4), 50 km southwest of Sirjan, Kerman Province	2,500.
Do.	Sangan Iron Ore Co. [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Sangan Mine, about 140 km southeast of Torbat e-Heydariyeh, Razavi Khorasan Province	25,000.
Do.	Small privately owned mines (about 20)	NA	1,000. <sup>c</sup>
Cast iron	Zagros Steel Co. (Government, majority interest)	Foundry in Kordestan Province	70.
Direct reduced iron	Ardakan Steel Co. (ARSCO)	Direct-reduction iron plant in Ardakan, Yazd Province	960.
Do.	Arfa Steel Co. [ChadorMalu Mining & Industrial Co., 43.69%; Mines and Metals Development Investment Co. (MMDIC), 20.51%; Yaran Rolling Pipe Co., 16.99%; others, 19.81%]	do.	800.
Do.	Baft Steel Co. [Iranian Mines and Mining Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Direct-reduction iron plant, Baft, Kerman Province	800.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
<b>Iron and steel—Continued:</b>			
Direct reduced iron—Continued	Chadormalu Mining and Industrial Co. [Omid Investment Management Corp., 37%; Mines and Metals Development Investment Co., 15%; Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO), <sup>3</sup> 8%]	Direct-reduction iron plant, Ardakan, Yazd Province	1,550.
Do.	Esfahan Steel Co. (ESCO) [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Direct-reduction iron plant about 40 km southwest of Esfahan, Esfahan Province	600.
Do.	Gha'emat Steel Complex [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Direct-reduction iron plant, about 80 km southeast of Gonabad Nimbolook, Khorasan Jonoubi Province	800.
Do.	Gol Gohar Mining and Industrial Co.	Direct-reduction iron plant, Kerman Province	3,260.
Do.	Hormozgan Steel Co. (HOSCO) [National Iranian Steel Co. (NISCO) <sup>4</sup> and partners]	Direct-reduction iron plant in Gachin, Hormozgan Province	1,660.
Do.	Iranian Ghadir Iron and Steel Co. (IGISCO)	Direct-reduction iron plant in Ardakan, Yazd Province	800.
Do.	Khorasan Steel Co. [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO), <sup>3</sup> majority interest, and a Government pension fund, 40%]	Direct-reduction iron plant, Razavi Khorasan Province	1,600.
Do.	Khuzestan Steel Co. (KSC) [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Direct-reduction iron plant, Ahwaz, Khuzestan Province	3,820.
Do.	Mianeh Steel Co.	Direct-reduction iron plant, Mianeh, East Azerbaijan Province	800.
Do.	Mobarakeh Steel Co. (MSC) [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Direct-reduction iron plant about 50 km southwest of Isfahan, Esfahan Province	9,500.
Do.	Neyriz Ghadir Steel Co. [Ghadir Investment Co. (IGISCO), 65%]	Direct-reduction iron plant in Neyriz, Fars Province	800.
Do.	Pasargad Steel Co. (PASCO) (private, 100%)	Direct-reduction iron plant in Shiraz, Fars Province	1,500.
Do.	Persian Gulf Saba Steel Co.	Direct-reduction iron plant in Bandar Abbas, Hormozgan Province	1,500.
Do.	Sabzevar Pars Steel Co. (SPSCO)	Direct-reduction iron plants in Razavi Khorasan Province	800.
Do.	Sefid Dasht Steel Co.	Direct-reduction iron plant in Chahar Mahal va Bakhtiari Province	800.
Do.	Shadegan Steel Co.	Direct-reduction iron plants in Shadegan, Khuzestan Province	800.
Do.	Sirjan Iranian Steel Co. (SISCO) [Middle East Mines & Mineral Industries Development Holding Co. (MIDHCO)]	Direct-reduction iron plant in Kerman Province	1,700.
Do.	Sirjan Jahan Steel Complex Co. (SJSCO) (Golgohar Mining & Industrial, 51%)	Direct-reduction iron plants in Sirjan, Kerman Province	960.
Do.	South Kaveh Steel Co. (SKS)	Direct-reduction iron plant in Bandar Abbas, Hormozgan Province	1,860.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
<b>Iron and steel—Continued:</b>			
Steel, raw	Arfa Steel Co. [ChadorMalu Mining & Industrial Co., 43.69%; Mines and Metals Development Investment Co. (MMDIC), 20.51%; Yaran Rolling Pipe Co., 16.99%; others, 19.81%]	Plant at Ardakan, Yazd Province	800.
Do.	Bardsir Steel Co. [The Middle East Mines and Minerals Industries Holding Co. (MIDHCO) (Mabnaye Khavar Miyaneh Co., 15.19%; Pars Aryan Investment Co., 11.84%; Rahbord Sarmaye Iranian Co., 10.38%; Arzesh Afarinan Pasargad Group Co., 9.4%; other investors, 53.19%)]	Bardsir steel plant, 60 km west of Kerman, Kerman Province	1,000.
Do.	Chadormalu Mining and Industrial Co. [Omid Investment Management Corp., 37%; Mines and Metals Development Investment Co., 15%; Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO), <sup>3</sup> 8%]	Plant at Ardakan, Yazd Province	1,000.
Do.	Esfahan Steel Co. (ESCO) [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Plant, about 40 km southwest of Isfahan, Esfahan Province	3,600.
Do.	Hormozgan Steel Co. (HOSCO) [National Iranian Steel Co. (NISCO) <sup>4</sup> and partners]	Plant at Gachin, Hormozgan Province	1,500.
Do.	Khorasan Steel Co. [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO), <sup>3</sup> 60%, and a Government pension fund, 40%]	Plant at Neyshabur, Razavi Khorasan Province	650.
Do.	Khuzestan Steel Co. (KSC) [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Plant at Ahwaz, Khuzestan Province	3,800.
Do.	Meibod (Meybod) Steel Co. [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> , 50%]	Plant, about 15 km southwest of Meybod, Yazd Province	300.
Do.	Mobarakeh Steel Co. (MSC) [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Plant, about 50 km southwest of Isfahan, Esfahan Province	7,200.
Do.	Saba Steel Co. [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Plant in Esfahan Province	1,600.
Do.	Sepid Dasht Steel Co. [National Iranian Steel Co. (NISCO) <sup>4</sup> ]	Plant in Lorestan Province	1,000.
Do.	South Kavch Steel Co. (SKS)	Plant near Bandar Abbas, Hormozgan Province	2,400.
Do.	Vian Steel Melting and Casting Co.	Plant, about 42 km from Hamadan, Hamadan Province	600.
<b>Lead:</b>			
Concentrate, Pb content	Calcimin Co. [Iran Zinc Mines Development Co. (IZMDC)]	Dandi zinc and lead concentrator plant, Zanjan Province	30.
Do.	Zanjan Zinc Khales Sazan Industrial Group	Zanjan plant, Zanjan Province	20.
Refined metal, primary	National Iranian Lead and Zinc Co. (Iran Zinc Mines Development Co.)	Refinery about 12 km east of Zanjan, Zanjan Province	40.
Refined metal, secondary	NIRU Manufacturing Co. Ltd.	Plants in Tehran Province	65.
Lead and zinc, ore	Anguran Lead and Zinc Complex [Iran Minerals Production and Supply Co. (IMPASCO), and Iran Zinc Mines Development Co. (IZMDC)]	Anguran open pit mine, Dandi, Zanjan Province	1,000.
Do.	Bafq Mining Co.	Koushk Mine, Yazd Province	120.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Lead and zinc, ore—Continued	BAMA Co.	Irakouh complex (Gooshfil underground and Tappeh Sorkh open pit mines, about 20 km southeast of Isfahan, Esfahan Province, and Koleh Darvazeh Mine, south of Isfahan, Esfahan Province)	100.
Do.	Beroner Tehran Co. (Kahanroba Industrial Group, 100%)	Emarat Mine, about 25 km southwest of Arak, Markazi Province	150.
Do.	Iran Minerals Production and Supply Co. (IMPASCO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Nakhlak lead and zinc plant, 55 km northeast of Anarak, Esfahan Province	50.
Do.	Mehdiabad Barite, Lead and Zinc Complex [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Mehdiabad Mine, 115 km southeast of Yazd City, Yazd Province	700.
Lime	Espandar Lime Complex Co.	Azarshahr plant in Tabriz, East Azerbaijan Province	131.
Do.	do.	Alborz plant in Firoozkooh, Tehran Province	55.
Do.	Pasargad Steel Co. (PASCO) (private, 100%)	Lime plant in Shiraz, Fars Province	70.
Do.	Shargh Industrial Lime Co.	Plant at Mashhad, Razavi Khorasan Province	NA.
Do.	The Middle East Mines and Minerals Industries Holding Co. (MIDHCO) (Mabnaye Khavar Miyaneh Co., 15.19%; Pars Aryan Investment Co., 11.84%; Rahbord Sarmaye Iranian Co., 10.38%; Arzesh Afarinan Pasargad Group Co., 9.4%; other investors, 53.19%)	Plant, 30 km northwest of city of Kerman, Kerman Province	400.
Magnesite	Birjand Refractory Mining Co. [Iranian Refractories Procurement & Production Co. (IRPPC)]	Hoz Sefid, Shirkuhak, and Torshak Mohammadi Mines, about 50 km southeast of Birjand, South Khorasan Province	100.
Do.	Kani Goharan Kimia Co. (KGK)	Mine in Bandar Abbas, Hormozgan Province	60.
Do.	Nokabad Magnesite Co.	Nokabad Mine, Sistan va Baluchestan Province	30.
Do.	Persia Paya Madan Co.	Chasiah and Soltan Abad Mines, Tehran Province	50.
Magnesium	Royal Metal Ingot Co.	Plant in South Khorasan Province	6.
Methanol	Kaveh Methanol Co.	Plant in Dayyer, Bushehr Province	2,555.
Do.	Middle East Kimia Pars Petrochemical Co.	Petrochemical complex, Asaluyeh, Bushehr Province	1,445.
Molybdenum, concentrate	National Iranian Copper Industries Co. (NICICO) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Molybdenum plant, Sarcheshmeh copper complex, south of Rafsanjan, Kerman Province	8.
Do.	do.	Molybdenum plant, Sungun copper complex, East Azerbaijan Province	3.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Natural gas	billion cubic meters	National Iranian Oil Co. (NIOC) <sup>3</sup>	Associated gas from company oilfields, onshore	96.
Do.	do.	do.	Aghar, Dalan, and Kangan Gasfields, Fars Province; and Nar Gasfield, Bushehr Province, onshore	57.
Do.	do.	do.	Phase-11 South Pars Gasfield, offshore	20.
Do.	do.	Pars Oil and Gas Co. [National Iranian Oil Co. (NIOC), <sup>3</sup> 100%]	South Pars Gasfield, offshore	227.
Natural gas liquids	thousand 42-gallon barrels	National Iranian Oil Co. (NIOC) <sup>3</sup>	Refineries in Hormozgan Province	255,500.
Do.	do.	do.	Phase-11 South Pars Gasfield, offshore	29,200.
Nitrogen fertilizer		Lordegan Petrochemical Co. (Iranian Petrochemical Investment Group, 77.77%)	Plant in Chahar Mahal va Bakhtiari Province	677 ammonia, NA urea.
Do.		National Petroleum Co. (NPC)	Plant in Bandar Mahshahr, Bandar Mahshahr-Bandar Emam Road, Khuzestan Province	NA ammonia, 6,700 urea.
Do.		Pardis Petrochemical Co.	Plant in Asaluyeh, Bushehr Province	2,000 ammonia, 3,200 urea.
Petroleum:				
Crude	million 42-gallon barrels	National Iranian Oil Co. (NIOC) <sup>3</sup>	Onshore oilfields include Agha Jari, Ahwaz-Asmari, Bangestan, Hakimeh, Gachsaran, Karanj, Marun, Pazanan, and Rag-e-Safid. Offshore oilfields include Abouzar and Salman	1,400.
Do.	do.	National Iranian Oil Co. (NIOC) <sup>3</sup> and buyback contract joint venture of Shell Iran Nowrooz/Soroosh Development (70%), JJI S&N B.V. (20%), and Iranian Offshore Engineering & Construction Co. (10%)	Nowrooz and Soroosh Fields, offshore	75.
Do.	do.	National Iranian Oil Co. (NIOC) <sup>3</sup> and buyback contract joint venture of Total S.A. (55%) and Eni SpA (45%)	Doroud field, offshore	65.
Do.	do.	National Iranian Oil Co. (NIOC) <sup>3</sup>	South Azadegan Field, Khuzestan Province	69.
Do.	do.	National Iranian Oil Co. (NIOC) <sup>3</sup> and buyback contract joint venture of Total S.A. (70%) and PETRONAS Carigali International Sdn Bhd (30%)	Sirri A and E fields, offshore	40.
Do.	do.	National Iranian Oil Co. (NIOC) <sup>3</sup> and China National Petroleum Co. (CNPC)	North Azadegan field, Khuzestan Province	27.
Do.	do.	National Iranian Oil Co. (NIOC) <sup>3</sup> and buyback contract joint venture of Total S.A. (60%) and Naftiran Intertrade Co. (40%)	Darquain field, Khuzestan Province	17.
Refined products	thousand 42-gallon barrels per day	National Iranian Oil Refining and Distribution Co. (NIORDC) <sup>3</sup>	Refinery at Abadan, Khuzestan Province	400.
Do.	do.	do.	Refinery at Isfahan, Esfahan Province	375.
Do.	do.	do.	Refinery at Bandar Abbas, Hormozgan Province	344.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Petroleum:—Continued				
Refined products —Continued	thousand 42-gallon barrels per day	National Iranian Oil Refining and Distribution Co. (NIORDC) <sup>3</sup>	Refinery at Tehran, Tehran Province	250.
Do.	do.	do.	Refinery at Arak, Markazi Province	250.
Do.	do.	do.	Refinery at Borzuyeh, Tehran Province	120.
Do.	do.	do.	Refinery at Tabriz, East Azerbaijan Province	110.
Do.	do.	do.	Refinery at Shiraz, Fars Province	60.
Do.	do.	do.	Refinery at Lavan, on Lavan Island, Hormozgan Province	60.
Do.	do.	do.	Refinery at BooAli Sina, Khuzestan Province	34.
Do.	do.	do.	Refinery at Kermanshah, Kermanshah Province	22.
Do.	do.	do.	Refinery at Aras 2, East Azerbaijan Province	10.
Do.	do.	do.	Refinery at Bushehr, Bushehr Province	10.
Do.	do.	do.	Refinery at Aras 1, East Azerbaijan Province	5.
Do.	do.	do.	Refinery at Yazd, Yazd Province	3.
Do.	do.	do.	Refinery at Zarand, Kerman Province	1.
Phosphate rock		Esfordi Phosphate Complex Co. [Iran Minerals Production and Supply Co. (IMPASCO) <sup>4</sup> ]	Mine, about 35 km northeast of Bafq, Yazd Province	360.
Potash		Iran Potash Co. [Iran Minerals Production & Supply Co. (IMPASCO) <sup>4</sup> ]	Zanjan and Biabanak Mines, near Khur, Esfahan Province	50.
Silver	kilograms	Zarshouran Gold Mine and Mining Industries Development Co. [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Zarshouran Mine, 40 km northeast of Takab, West Azerbaijan Province	2,500.
Stone:				
Limestone		Gohar Khak Bushehr Co.	Quarry in Bushehr Province	730.
Do.		IMPASCO [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Pirbakran limestone complex, Esfahan Province	2,000.
Do.		Iran Alumina Co. (IAC) [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Jajarm Mine, about 15 km northeast of Jajarm, North Khorasan Province	NA.
Do.		Morvarid Bandar Pol (MBP)	Quarry at Bandar Abbas, Hormozgan Province	NA.
Limestone and marble		Farzin Rock Stone Co.	Plant at Shams Abad Industrial Zone, Tehran Province	NA.
Marble		MGT Stone Co.	Quarry at Sanandaj, Kordestan Province	NA.
Titanium, ilmenite		Kahnuj pilot plant [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Daregaz placer and Kahnuj titanium dioxide processing plant, Kerman Province	NA.
Uranium, U content:				
Mine	metric tons	Atomic Energy Organization of Iran (AEOI) <sup>3</sup>	Saghand Mine, about 125 km northeast of Yazd, Yazd Province	58.
Do.	do.	do.	Gachin Mine, Hormozgan Province	21.

See footnotes at end of table.

TABLE 2—Continued  
 IRAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2023<sup>1</sup>

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity
Uranium, U content:—Continued				
Processing	metric tons	Atomic Energy Organization of Iran (AEOI) <sup>3</sup>	Isfahan nuclear conversion plant, Isfahan, Esfahan Province	200.
Do.	do.	do.	Fordow nuclear fuel enrichment plant, 20 km north of Qom, Qom Province	21.
Do.	do.	do.	Bandar Abbas uranium leaching plant, Bandar Abbas, Hormozgan Province	21.
Do.	do.	do.	Natanz nuclear fuel enrichment plant, 80 km southeast of Qom, Qom Province	3.
Do.	do.	do.	Isfahan enriched uranium powder plant, Isfahan, Esfahan Province	2.
Zinc:				
Concentrate, Zn content		Calcimin Co. [Iran Zinc Mines Development Co. (IZMDC)]	Dandi (Anguran) plant, Zanjan Province	500.
Do.		Mehdiabad Barite, Lead and Zinc Complex [Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO) <sup>3</sup> ]	Mehdiabad Mine and plant, 115 km southeast of Yazd, Yazd Province	200.
Do.		Zangan Zinc Industry LLP [Iran Zinc Mines Development Co. (IZMDC)]	Zanjan plant, Zanjan Province	250.
Do.		Zanjan Zinc Kholes Sazan Industrial Group	Zanjan plant, Zanjan Province	200.
Refined metal		Bafq Zinc Co. [Iran Zinc Mines Development Co. (IZMDC)]	Refinery west of Bafq, Yazd Province	30.
Do.		Bama Co.	Refinery at Isfahan, Esfahan Province	15.
Do.		Bandar Abbas Zinc Production Co. (Calcimin Co.)	Refinery at Bandar Abbas, Hormozgan Province	18.
Do.		Calcimin Co. [Iran Zinc Mines Development Co. (IZMDC)]	Dandi (Anguran) refinery, Zanjan Province	80.
Do.		Calcimin Co. [Iran Zinc Mines Development Co. (IZMDC)]	Refinery at Zanjan, Zanjan Province	4.
Do.		Faravari Mavad Madani Iran Co. [Iran Zinc Mines Development Co. (IZMDC)]	Refinery at Dandi, Zanjan Province	18.
Do.		National Iranian Lead and Zinc Co. (Iran Zinc Mines Development Co.)	Refinery, about 12 km east of Zanjan, Zanjan Province	15.
Do.		Qeshm Zinc Melting and Reduction Co. (Calcimin Co.)	Refinery at Kaveh Industrial Zone, Qeshm Island, Hormozgan Province	20.
Do.		Sane Rooy Zanjan Co.	Refinery at Zanjan, Zanjan Province	11.
Do.		Zanjan Zinc Kholes Sazan Industrial Group	do.	35.

<sup>6</sup>Estimated. Do., do. Ditto. NA Not available.

<sup>1</sup>Table includes data available through January 6, 2025. All data are reported unless otherwise noted. Estimated data are rounded to no more than three significant digits.

<sup>2</sup>Abbreviation(s) used for unit(s) of measure in this table include the following: km—kilometer.

<sup>3</sup>Government owned.

<sup>4</sup>A subsidiary of state-owned Iranian Mines and Mining Industries Development and Renovation Organization (IMIDRO).