

2019 Minerals Yearbook

TURKMENISTAN [ADVANCE RELEASE]

THE MINERAL INDUSTRY OF TURKMENISTAN

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Hydrocarbons were a leading segment of the economy of Turkmenistan in 2019, accounting for most of the country's exports of goods. The country had the world's fourth-ranked proven natural gas reserves (BP p.l.c., 2020, p. 32). The legislative framework for the mineral sector in Turkmenistan is provided by the Hydrocarbon Resources Law 2008 and the Law on Subsoil 2014. 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 Turkmenistan can be found in previous editions of the U.S. Geological Survey Minerals Yearbook, volume III,

Area Reports—International—Europe and Central Eurasia Region, which are available at <https://www.usgs.gov/centers/nmic/europe-and-central-eurasia>.

Reference Cited

BP p.l.c., 2020, BP statistical review of world energy 2020 (69th ed.): London, United Kingdom, BP p.l.c., June, 65 p. (Accessed September 3, 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>)

TABLE 1
TURKMENISTAN: PRODUCTION OF MINERAL COMMODITIES¹

(Metric tons, gross weight, unless otherwise specified)

Commodity ²	2015	2016	2017	2018	2019
METALS					
Iron and steel, products, rolled	140,000 ^e	140,000 ^e	144,000 ^e	144,000 ^e	NA
INDUSTRIAL MINERALS					
Bromine	500 ^e	500 ^e	NA	NA	NA
Cement, hydraulic	thousand metric tons	3,300 ^e	3,500 ^e	3,600 ^e	3,800 ^e
Clay, bentonite:					
Powder ^e	400	400	420	450	450
Other, unspecified	8,000 ^e	8,000 ^e	8,400 ^e	9,000 ^e	10,000
Gypsum ^e	110,000	110,000	110,000	110,000	110,000
Iodine	500 ^e	500 ^e	544 ^r	540 ^{r, e}	600 ^e
Lime ^e	20,000	21,000	22,000	23,000	24,000
Nitrogen, N content: ^e					
Ammonia	309,000	309,000	320,000	340,000	350,000
Urea	360,000	360,000	380,000	400,000	400,000
Potash, K ₂ O content	--	--	25,000 ^e	19,000 ^{r, e}	20,000 ^e
Salt ^e	100,000	100,000	100,000	100,000	105,000
Sodium, compounds, sodium sulfate ^e	78,000 ^r	52,000	26,000	59,000 ^r	59,000
Sulfur, S content	600,000	400,000	200,000	450,000 ^r	450,000 ^e
MINERAL FUELS AND RELATED MATERIALS					
Natural gas	million cubic meters	65,900 ^r	63,200 ^r	58,700 ^r	61,500 ^r
Petroleum:					
Crude, including condensate	thousand 42-gallon barrels	91,700 ^r	85,400 ^r	81,200 ^r	77,700 ^r
Refinery	do.	44,450 ^r	41,300 ^r	43,750 ^r	40,950 ^r

^eEstimated. ^rRevised. do. Ditto. NA Not available. -- Zero.

¹Table includes data available through June 8, 2020. All data are reported unless otherwise noted. Estimated data are rounded to no more than three significant digits.

²In addition to the commodities listed, barite, bench gravel, coal, dolomite, epsomite, and kaolin may have been produced, but available information was inadequate to make reliable estimates of output.

TABLE 2
TURKMENISTAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2019¹

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies, main facilities, or deposits ²	Location or deposit names	Annual capacity ³
Bromine	metric tons	SI Turkmenhimiya Holding	Plant at Cheleken Peninsula	250
Do.	do.	do.	Plant at Balkanabad, Balkan Welayat	260
Cement		Polimek Insaat Taahhut ve San. Tic. A.Ş.	Jebel cement plant, Jebel, Nebitdag Region, Balkanabat Welayat	1,100
Do.		do.	Garlyk cement plant, Lebap Welayat, Turkmenabat region	1,400
Do.		Turkmentcement (Government, 100%)	JSC Baharlynskiy cement plant, Bezmein	1,200
Do.		do.	Kelete cement plant, 70 kilometers west of Ashgabad	1,000
Clay, bentonite	metric tons	Oglanly Mine	Oglanly region, Balkan Welayat	500
Gypsum		IA Turkmenmineral	Tagorin deposits, Mukry, Lebap Welayat	NA
Do.		Krasnovodsk Aylagy (anhydride) deposit	9 kilometers east of Turkmenbashi	NA
Do.		Wastes from Gaurdak sulfur deposit	Gora Gaurdak Mine, Lebap Welayat	NA
Iodine	metric tons	Himiya Senagat	Balkan Welayat	150
Do.	do.	SI Turkmenhimiya Holding	Balkanabad plant, Balkanabad, Balkan Welayat	300
Do.	do.	do.	Bereket plant, Gumdag, Balkan Welayat	NA
Do.	do.	do.	Khazar chemical plant, Balkan Welayat	355
Limestone for cement		Gaurdak	Quarries 4 kilometers northeast of Gaurdak	NA
Natural gas	million cubic meters	China National Petroleum Corp. (CNPC)	Amu Darya basin	5,000
Do.	do.	Dauletabad, Dovieta-Denmez (Donmez), Gygyrlinskoye, Ioltan (South Yolotan-Osman), North and South Naipskiye, Shatlyk, and Yashlar gasfields (SI Turkmengaz)	Onshore fields in eastern and southwestern parts of the country and offshore in the Caspian Sea; Murgab basin; Dashoguzskiy	90,000
Do.	do.	Eni S.p.A.	Nebitdag Block	60
Nitrogen, N content:				
Ammonia		SI Turkmenhimiya Holdings	Ammonia plant at Mary City	400
Urea		do.	do.	1,100
Petroleum:				
Crude	thousand 42-gallon barrels	Barsa-Gelmesskoye, Burunskoye, Cheleken, Gograndagskoye, Ioltan (South Yolotan-Osman), Kamyshldzhinskoye, Korturtepinskoye, Kum Dag, Kuydzhikskoye, Okaremskoye, and Yashlar oilfields	Centered in Caspian plain in west Turkmenistan and in offshore oilfields to the west of the Cheleken Peninsula in the Caspian Sea	81,000
Do.	do.	Dragon Oil Plc	Cheleken basin	35,000
Do.	do.	Eni S.p.A.	Nebitdag Block	3,000
Refined	do.	Seidi oil refinery and Turkmenbashi complex of oil refineries (Government, 100%)	Lebap and Balkan Welayat	78,000 ³
Potash		SI Turkmenhimiya Holding	Garlyk processing plant, southeast of Turkmenistan	24
Salt:				
Rock salt		Gaurdak deposit	8 kilometers from Gaurdak	15
Do.		Khodzhaquymaskoye deposit	4 kilometers west of Gaurdak	NA
Do.		Kugitangskoye deposit	75 kilometers from Gaurdak	2
Do.		Uzun-Kudukskoye deposit	20 kilometers from Gaurdak	2
Salt brine		Kuulinskoye	40 kilometers north of Turkmenbashi	650
Iodized salt		Guvludyz Salt Factory	Balkan Welayat	60

See footnotes at end of table.

TABLE 2—Continued
TURKMENISTAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2019¹

(Thousand metric tons unless otherwise specified)

Commodity	Major operating companies, main facilities, or deposits ²	Location or deposit names	Annual capacity ³
Sodium sulfate	Karabogazsulfate Association	Bekdash, Kara-Bogaz-Gol Lagoon (off the Caspian Sea)	100
Steel, rolled	Turkmen metallurgical plant	Plant near Ashgabat	160
Sulfur	State Concern Turkmenogas (Government, 100%)	Three plants, Galkynysh	600
Sulfuric acid	SI Turkmenhimiya Holding	Turkmenabat region	500

³Estimated; estimated data are rounded to no more than three significant digits. Do., do. Ditto. NA Not available.

¹Many location names have changed since the breakup of the Soviet Union. Many enterprises, however, are still named or commonly referred to based on the former location name, which accounts for discrepancies in the names of enterprises and locations.

²The majority of companies are Government owned.

³Capacity estimates are totals for all enterprises that produce refined petroleum.