



# 2019 Minerals Yearbook

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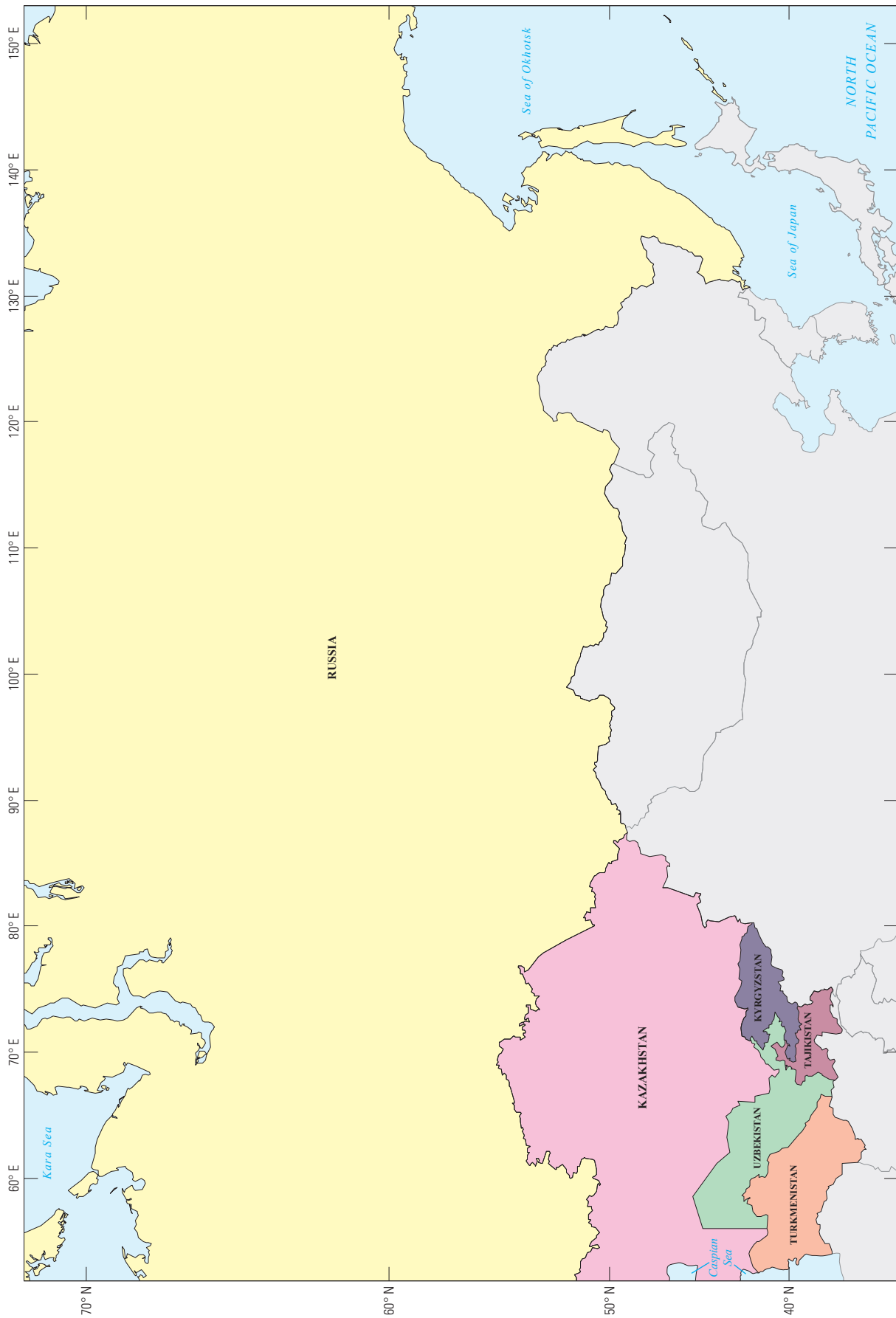
**EUROPE AND CENTRAL EURASIA [ADVANCE RELEASE]**

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Base modified from ESRI ArcGIS online world countries (generalized) map data, 2017  
 Mercator Auxiliary Sphere projection  
 World Geodetic System 1984 datum

**Figure 1.** Map of the Europe and Central Eurasia region. The countries covered in this report are labeled on the map; bordering countries are shown in gray and not labeled. The Czech Government approved “Czechia” as the official short form name of the Czech Republic in 2019.



**Figure 1.**—Continued.

# THE MINERAL INDUSTRIES OF EUROPE AND CENTRAL EURASIA

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The countries and dependencies that are covered in this chapter have a combined population of approximately 921 million people and a land area of 30.1 million square kilometers (fig. 1, table 1). In 2019, the gross domestic product (GDP) based on purchasing power parity of the Europe and Central Eurasia region was \$33.9 trillion, accounting for 25.2% of the world's GDP. The region's real GDP increased by 2.2% in 2019 compared with 2.7% in 2018 (table 2).

The Europe and Central Eurasia region accounted for 55.3% of the world's production of uranium; 49%, mined coal (lignite); 43.8%, potash; 43.5%, mined palladium (Pd content); 36.8%, refined nickel; and 34.5%, titanium sponge (table 3). Some countries of the Europe and Central Eurasia region were globally significant producers of metals, industrial minerals, and (or) mineral fuels and related materials. The major producers of titanium sponge in the region were Russia (accounting for 20.6% of the world's output), Kazakhstan (10.3%), and Ukraine (3.6%) (fig. 2). The major producers of mined uranium in the region were Kazakhstan (41.9%), Uzbekistan (6.4%), and Russia (5.4%). The major producers of lignite in the region were Germany (11.8%), Russia (7.4%), Turkey (7.3%), Poland (4.5%), Serbia (3.5%), and Czechia (3.4%). The major producer of mined palladium in the region was Russia (43.2%). The major producers of potash in the region were Belarus and Russia (17.1% each), and Germany (7.9%). The major producers of refined nickel in the region were Russia (16.9%), Norway (9.4%), Finland (6.3%), and the United Kingdom (3.6%). Data on mineral production for selected mineral commodities, by country in the region, are in table 3.

## Acknowledgments

The U.S. Geological Survey (USGS) acknowledges and expresses its sincere appreciation to the following organizations for providing mineral production statistics, basic economic data, and exploration and mineral-related information:

- Albania—National Agency of Natural Resources;
- Armenia—National Statistical Service;
- Austria—Federal Ministry for Economy, Family, and Youth;
- Azerbaijan—The State Statistical Committee;
- Belarus—National Statistical Committee (BelStat);
- Belgium—Statistics Belgium (StatBel);
- Bosnia and Herzegovina—Agency for Statistics of Bosnia and Herzegovina;
- Croatia—Government of Croatia;

- Cyprus—The Mine Service; Ministry of Agriculture, Natural Resources and Environment;
- Czechia (formerly referred to as the Czech Republic)—Czech Geological Survey;
- Denmark—Statistics Denmark;
- Estonia—Geological Survey of Estonia;
- Finland—Geological Survey of Finland;
- Georgia—National Statistics Office of Georgia (GEOSTAT);
- Germany—Federal Institute for Geosciences and Natural Resources;
- Greece—Government of Greece;
- Hungary—Ministry of Economy and Transport of the Republic of Hungary, Hungarian Geological Survey;
- Iceland—Statistics Iceland;
- Ireland—Government of Ireland;
- Kazakhstan—Bureau of National Statistics;
- Kosovo—Independent Commission for Mines and Minerals (ICMM);
- Latvia—Central Statistical Bureau of Latvia;
- Lithuania—Statistics Lithuania;
- Malta—National Statistics Office;
- Moldova—National Bureau of Statistics of the Republic of Moldova;
- Montenegro—Statistics Office of the Montenegro;
- North Macedonia—State Statistical Office;
- Norway—Directorate of Mining;
- Poland—Central Statistical Office;
- Portugal—Geological and Mining Institute;
- Romania—National Institute of Statistics;
- Russia—Russian Federal State Statistics Service;
- Slovakia—Statistical Office of the Slovak Republic;
- Slovenia—Geological Institute of Slovenia;
- Sweden—Geological Survey of Sweden;
- Switzerland—Federal Statistical Office;
- Tajikistan—Agency on Statistics Under President of the Republic of Tajikistan;
- Turkey—Turkish Statistical Institute;
- Ukraine—State Statistics Service of Ukraine;
- United Kingdom—British Geological Survey (in-person meeting for discussion and data source); and
- Uzbekistan—State Committee for Geology and Mineral Resources

TABLE 1  
EUROPE AND CENTRAL EURASIA: AREA AND POPULATION IN 2019

Country or territory	Area <sup>1</sup> (square kilometers)	Estimated population <sup>2</sup> (thousands)
Albania	28,748	2,854
Armenia	29,743	2,958
Austria	83,871	8,880
Azerbaijan	86,600	10,024
Belarus	207,600	9,418
Belgium	30,528	11,489
Bosnia and Herzegovina	51,197	3,301
Bulgaria	110,879	6,976
Croatia	56,594	4,065
Cyprus	9,251	1,199
Czechia	78,867	10,672
Denmark, including the Faroe Islands and Greenland	2,210,573	5,919
Estonia	45,228	1,327
Finland	338,145	5,522
France	551,500	67,249
Georgia	69,700	3,720
Germany	357,022	83,093
Greece	131,957	10,722
Hungary	93,028	9,771
Iceland	103,000	361
Ireland	70,273	4,934
Italy	301,340	59,729
Kazakhstan	2,724,900	18,514
Kosovo	10,887	1,789
Kyrgyzstan	199,951	6,456
Latvia	64,589	1,914
Lithuania	65,300	2,794
Luxembourg	2,586	620
Malta	316	504
Moldova	33,851	2,663
Montenegro	13,812	622
Netherlands	41,543	17,345
North Macedonia <sup>3</sup>	25,713	2,083
Norway	323,802	5,348
Poland	312,685	37,965
Portugal	92,090	10,286
Romania	238,391	19,372
Russia	17,098,242	144,406
Serbia	77,474	6,945
Slovakia	49,035	5,454
Slovenia	20,273	2,088
Spain	505,370	47,134
Sweden	450,295	10,279
Switzerland	41,277	8,575
Tajikistan	144,100	9,321
Turkey	783,562	83,430
Turkmenistan	488,100	5,942
Ukraine	603,550	44,386
United Kingdom	243,610	66,836
Uzbekistan	447,400	33,580
Regional total	30,148,000	920,834
World total	148,940,000 <sup>4</sup>	7,673,345 <sup>5</sup>

<sup>1</sup>Source: U.S. Central Intelligence Agency, The World Factbook.

<sup>2</sup>Source: The World Bank, 2021 World Development Indicators Database.

<sup>3</sup>The Republic of Macedonia changed its name to the Republic of North Macedonia effective in February 2019.

<sup>4</sup>World area total includes the areal extent of some countries and (or) territories not covered in the Minerals Yearbook.

<sup>5</sup>World population total includes populations of some countries and (or) territories not covered in the Minerals Yearbook.

TABLE 2  
EUROPE AND CENTRAL EURASIA: GROSS DOMESTIC PRODUCT<sup>1, 2</sup>

Country or territory	Gross domestic product in 2019 based on purchasing power parity		Real gross domestic product growth rate (percentage)		
	Gross value (million dollars)	Per capita (dollars)	2017	2018	2019
	Albania	41,678	14,467	3.8	4.1
Armenia	42,111	14,213	7.5	5.2	7.6
Austria	519,832	58,680	2.4	2.6	1.4
Azerbaijan	150,852	15,113	0.2	1.5	2.5
Belarus	189,336	20,080	2.5	3.1	1.4
Belgium	621,768	54,277	1.6	1.8	1.8
Bosnia and Herzegovina	51,581	15,626	3.2	3.7	2.8
Bulgaria	169,140	24,331	3.5	3.1	3.7
Croatia	121,725	29,945	3.4	2.8	2.9
Cyprus	36,991	42,233	5.2	5.2	3.1
Czechia	457,548	42,963	5.2	3.2	3.0
Denmark, including the Faroe Islands and Greenland	347,395	59,833	2.8	2.0	2.1
Estonia	50,458	38,029	5.8	4.1	4.1
Finland	279,966	50,738	3.2	1.1	1.3
France	3,239,760	49,851	2.4	1.8	1.8
Georgia	58,116	15,608	4.8	4.8	5.0
Germany	4,696,684	56,523	2.7	1.1	1.1
Greece	331,540	30,914	1.3	1.6	1.9
Hungary	335,639	34,343	4.3	5.4	4.6
Iceland	21,576	60,437	4.2	4.9	2.4
Ireland	447,468	90,390	8.9	9.0	4.9
Italy	2,668,735	44,615	1.7	0.9	0.3
Kazakhstan	508,459	27,290	4.1	4.1	4.5
Kosovo	21,413	12,015	4.2	3.8	4.9
Kyrgyzstan	35,280	5,522	4.7	3.5	4.6
Latvia	61,580	32,073	3.3	4.0	2.0
Lithuania	108,135	38,701	4.3	3.9	4.3
Luxembourg	73,963	120,481	1.8	3.1	2.3
Malta	24,203	49,038	11.0	6.1	5.7
Moldova	36,186	13,493	4.7	4.3	3.7
Montenegro	13,976	22,469	4.7	5.1	4.1
Netherlands	1,031,310	59,675	2.9	2.4	2.0
North Macedonia	35,907	17,294	1.1	2.9	3.2
Norway	353,008	65,899	2.3	1.1	0.9
Poland	1,317,238	34,689	4.8	5.4	4.7
Portugal	375,100	36,466	3.5	2.8	2.7
Romania	606,240	31,226	7.3	4.5	4.1
Russia	4,174,861	28,449	1.8	2.8	2.0
Serbia	132,489	19,025	2.1	4.5	4.2
Slovakia	186,092	34,143	3.0	3.7	2.5
Slovenia	85,149	40,919	4.8	4.4	3.3
Spain	2,006,709	42,600	3.0	2.3	2.1
Sweden	574,794	55,656	2.6	2.0	2.0
Switzerland	638,861	74,764	1.7	2.9	1.2
Tajikistan	32,926	3,543	7.1	7.3	7.5
Turkey	2,471,299	29,719	7.5	3.0	0.9
Turkmenistan	86,971	14,851	0.5	1.3	-7.7
Ukraine	561,196	13,447	2.4	3.5	3.2
United Kingdom	3,246,271	48,599	1.7	1.3	1.4
Uzbekistan	257,168	7,733	4.4	5.4	5.7
Regional total	33,936,683	36,854 <sup>3</sup>	3.2 <sup>4</sup>	2.7 <sup>4</sup>	2.2 <sup>4</sup>
World total <sup>5</sup>	134,916,440	17,582 <sup>3</sup>	3.8	3.6	2.8

See footnotes at end of table.

TABLE 2—Continued  
EUROPE AND CENTRAL EURASIA: GROSS DOMESTIC PRODUCT<sup>1,2</sup>

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<sup>1</sup>Source: International Monetary Fund, World Economic Outlook Database, October 2021.

<sup>2</sup>Gross domestic product listed may differ from that reported in individual country chapters owing to differences in the source or date of reporting.

<sup>3</sup>Calculated as gross domestic product divided by population.

<sup>4</sup>Annual change in regional gross domestic product.

<sup>5</sup>World gross domestic product total includes the gross domestic product of some countries and (or) territories not covered in the Minerals Yearbook.

TABLE 3  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>  
(Thousand metric tons unless otherwise specified)

Country	Metals									
	Aluminum		Antimony, mine output, Sb content (metric tons)		Chromite, mine output, gross weight	Cobalt, Co content (metric tons)		Copper, mine output, Cu content		
	Alumina	Bauxite	Primary	Secondary		Mine output	Refined	Mine output	Refined	
Albania	--	--	--	--	1,288	--	--	--	4	
Armenia	--	--	--	--	--	--	--	--	91	
Austria	--	--	--	472 <sup>e</sup>	--	--	--	--	--	
Azerbaijan	--	--	36	--	--	--	--	--	2	
Belarus	--	--	--	--	--	--	--	1,500	--	
Belgium	--	--	--	--	--	--	--	--	--	
Bosnia and Herzegovina	214	934	69	--	--	--	--	--	--	
Bulgaria	--	--	--	18	--	--	--	--	71	
Croatia	--	--	--	--	--	--	--	--	--	
Cyprus	--	--	--	--	--	--	--	--	1 <sup>e</sup>	
Czechia	--	--	--	66	--	--	--	--	--	
Denmark and Greenland	--	--	--	--	--	--	--	--	--	
Estonia	--	--	--	--	--	--	--	--	--	
Finland	--	--	--	--	2,415	--	1,454	12,526	33	
France	--	--	430 <sup>e</sup>	190 <sup>e</sup>	--	--	--	200	10	
Georgia	--	--	--	760 <sup>e</sup>	--	--	--	--	--	
Germany	1,900 <sup>e</sup>	--	550 <sup>e</sup>	--	--	--	--	--	--	
Greece	820	1,492	182	--	--	--	--	--	--	
Hungary	265	--	--	--	--	--	--	--	--	
Iceland	--	--	844	--	--	--	--	--	--	
Ireland	1,893	--	--	--	--	--	--	--	--	
Italy	--	--	--	688	--	--	--	--	--	
Kazakhstan	1,390 <sup>e</sup>	4,118	278	--	300 <sup>e</sup>	7,019	--	--	523	
Kosovo	--	--	--	--	--	--	--	--	--	
Kyrgyzstan	--	--	--	--	--	--	--	--	8	
Latvia	--	--	--	--	--	--	--	--	--	
Lithuania	--	--	--	--	--	--	--	--	--	
Luxembourg	--	--	--	--	--	--	--	--	--	
Malta	--	--	--	--	--	--	--	--	--	
Moldova	--	--	--	--	--	--	--	--	--	
Montenegro	--	775	60 <sup>e</sup>	--	--	--	--	--	--	
Netherlands	--	--	100 <sup>e</sup>	--	--	--	--	--	--	
North Macedonia	--	--	--	--	--	--	--	--	7	
Norway	--	--	1,300 <sup>e</sup>	--	--	--	--	4,354	--	
Poland	--	--	--	13	--	--	--	--	449	

See footnotes at end of table.



TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>

(Thousand metric tons unless otherwise specified)

Country	Metals									
	Aluminum					Antimony,				
	Alumina	Bauxite	Metal		Sb content	Chromite,	Cobalt, Co content		Copper,	
		Primary	Secondary	(metric tons)	mine output,	mine output,	Mine output	Refined	mine output,	
					gross weight	gross weight			Cu content	
Portugal	--	--	--	--	--	--	--	--	42	
Romania	461	--	280	8	--	--	--	--	9	
Russia	2,755	5,574	3,637	--	30,000 <sup>e</sup>	510 <sup>e</sup>	6,300 <sup>e</sup>	2,000 <sup>e</sup>	1,700 <sup>e</sup>	
Serbia	--	--	--	79 <sup>e</sup>	--	--	--	--	46	
Slovakia	--	--	175	--	--	--	--	--	--	
Slovenia	--	--	68	10	--	--	--	--	--	
Spain	1,595	--	240 <sup>e</sup>	--	--	--	--	--	122	
Sweden	--	--	120	--	--	--	--	--	99	
Switzerland	--	--	--	--	--	--	--	--	--	
Tajikistan	--	--	101	--	27,950	--	--	--	--	
Turkey	300 <sup>e</sup>	819	80 <sup>e</sup>	--	1,970 <sup>e</sup>	8,666	120 <sup>e</sup>	--	74	
Turkmenistan	--	--	--	--	--	--	--	--	--	
Ukraine	1,690	--	--	--	--	--	--	--	--	
United Kingdom	--	--	39	149 <sup>e</sup>	--	--	--	--	--	
Uzbekistan	--	--	--	--	--	--	--	--	140 <sup>e</sup>	
Regional total	13,283	13,712	8,589	2,453	60,220	19,898	7,874	20,580	3,431	
Share of world total	10.0%	3.9%	13.6%	21.0%	39.1%	44.5%	5.6%	15.0%	19.0%	
United States	1,410 <sup>e</sup>	W	1,090	--	--	--	500 <sup>e</sup>	--	1,260	
Share of world total	1.1%	W	1.7%	--	--	--	0.4%	--	7.0%	
World total	133,000	352,000	63,000	11,700	154,000	44,700	141,000	137,000	18,100	

See footnotes at end of table.

TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>

(Thousand metric tons unless otherwise specified)

Country	Metals—Continued											
	Copper—Continued			Gold,		Iron and steel			Lead (metric tons)			
	Metal, refined		mine output,	Iron ore,	Pig iron and	Mine output,	Metal, refined		Metal, refined		Secondary	
	Primary <sup>3</sup>	Secondary	Au content (kilograms)	Fe content	direct-reduced iron	Pb content	Primary <sup>3</sup>	Secondary	Primary <sup>3</sup>	Secondary	Secondary	
Albania	--	--	--	--	--	406	--	--	--	--	--	--
Armenia	--	--	5,800 <sup>e</sup>	--	--	--	--	--	--	--	--	--
Austria	--	128	--	897	5,750	7,423	--	--	--	--	24,000 <sup>e</sup>	--
Azerbaijan	--	--	3,712	--	--	326	--	--	--	--	--	--
Belarus	--	--	--	--	--	2,718	--	--	--	--	--	--
Belgium	210	147	--	--	4,800	7,905	--	--	--	--	127,000	--
Bosnia and Herzegovina	--	--	--	906	745	801	--	--	6,600	--	NA	--
Bulgaria	182	25	9,924	--	--	595	--	--	35,453	102,473	--	--
Croatia	--	--	--	--	--	100	--	--	--	--	--	--
Cyprus	--	--	33	--	--	--	--	--	--	--	--	--
Czechia	--	--	--	--	3,635	4,563	--	--	--	--	45	--
Denmark and Greenland	--	--	--	--	--	--	--	--	--	--	--	7,400 <sup>e</sup>
Estonia	--	--	--	--	--	--	--	--	--	--	--	--
Finland	116	--	7,927	--	2,300	3,511	--	--	--	--	--	--
France	--	--	--	--	9,878	14,451	--	--	--	--	70,000	--
Georgia	--	--	2,600 <sup>e</sup>	--	--	--	--	--	--	--	--	--
Germany	353	278	--	--	25,490	39,675	--	--	10,500	100 <sup>e</sup>	215 <sup>e</sup>	--
Greece	--	--	2,333	524 <sup>e</sup>	--	1,367	--	--	--	--	--	--
Hungary	--	--	--	--	1,151	1,769	--	--	--	--	--	--
Iceland	--	--	--	--	--	--	--	--	--	--	--	--
Ireland	--	--	--	--	--	--	--	--	16,100	--	--	16,300
Italy	--	10	--	--	4,607	23,245	--	--	--	32,900	--	134,600
Kazakhstan	512	--	106,559	11,643	3,209	4,085	--	--	55,700	132,669	--	--
Kosovo	--	--	--	--	--	--	--	4	--	--	--	--
Kyrgyzstan	--	--	26,849	--	--	--	--	--	--	--	--	--
Latvia	--	--	--	--	--	--	--	--	--	--	--	--
Lithuania	--	--	--	--	--	--	--	--	--	--	--	--
Luxembourg	--	--	--	--	--	2,200	--	--	--	--	--	--
Malta	--	--	--	--	--	--	--	--	--	--	--	--
Moldova	--	--	--	--	--	393 <sup>e</sup>	--	--	--	--	--	--
Montenegro	--	--	--	--	--	120 <sup>e</sup>	--	--	4,971	--	--	--
Netherlands	--	--	--	--	5,936	6,657	--	--	--	--	--	36,000 <sup>e</sup>
North Macedonia	1 <sup>e</sup>	--	--	--	--	239	--	--	33,700 <sup>e</sup>	--	--	--
Norway	22	--	--	--	80 <sup>e</sup>	621	--	--	--	--	--	--
Poland	464	102	674	--	4,242	9,123	--	--	48,666	48,000	--	114,000

See footnotes at end of table.

TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>

(Thousand metric tons unless otherwise specified)

Country	Metals—Continued										
	Copper—Continued			Gold,		Iron and steel		Mine output,		Lead (metric tons)	
	Metal, refined		mine output,	Iron ore,	Pig iron and	Steel, raw	Pb content	Primary <sup>3</sup>	Secondary	Primary <sup>3</sup>	Secondary
	Primary <sup>3</sup>	Secondary	Au content (kilograms)	Fe content	direct-reduced iron						
Portugal	--	--	--	--	--	2,000	27,852	--	--	10,000	
Romania	--	--	--	--	2,000	3,432	--	--	--	16,000	
Russia	801 <sup>e</sup>	246 <sup>e</sup>	304,697	64,287	59,214	71,570	230,000 <sup>e</sup>	180,000 <sup>e</sup>	--	--	
Serbia	73	1	--	--	1,577	1,929	5,700	14,400	--	--	
Slovakia	--	--	500 <sup>e</sup>	--	4,300	5,300	--	--	--	--	
Slovenia	--	--	--	--	--	645	--	--	--	12,000 <sup>e</sup>	
Spain	301	85	1,913	--	3,880	13,588	29,827	28,500	--	188,000 <sup>e</sup>	
Sweden	141	60	7,972	27,600	3,200	4,721	68,635	28,500	--	49,500	
Switzerland	--	--	--	--	--	1,500	--	--	--	--	
Tajikistan	--	--	8,100	--	--	--	29,500	--	--	--	
Turkey	106	10	38,000	9,110	9,869	33,743	71,000 <sup>e</sup>	--	--	56,000 <sup>e</sup>	
Turkmenistan	--	--	--	--	--	--	--	--	--	--	
Ukraine	--	20	--	39,500	20,056	20,848	--	--	--	24,050	
United Kingdom	--	--	64 <sup>e</sup>	--	5,643	7,225	--	153,000 <sup>e</sup>	--	164,000	
Uzbekistan	147	--	88,500	--	--	625	35,000 <sup>e</sup>	--	--	--	
Regional total	3,429	1,112	616,157	154,467	181,562	299,419	709,208	692,042	1,049,110		
Share of world total	18.5%	26.9%	18.6%	10.2%	13.1%	15.9%	15.2%	15.3%	15.5%		
United States	985	44	200,000	29,800	26,000	87,800	274,000	--	1,180,000		
Share of world total	5.3%	1.1%	6.0%	2.0%	1.9%	4.7%	5.9%	--	17.4%		
World total	18,500	4,130	3,320,000	1,510,000	1,390,000	1,880,000	4,680,000	4,520,000	6,770,000		

See footnotes at end of table.

TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>

(Thousand metric tons unless otherwise specified)

Country	Metals—Continued										
	Manganese, mine output, Mn content	Nickel, Ni content		Platinum-group metals, mine output, metal content (kilograms)		Silver, mine output, Ag content (metric tons)		Titanium (metric tons)		Tungsten, mine output, W content (metric tons)	
		Mine output	Refinery products	Palladium	Platinum	Ag content (metric tons)	Ilmenite, TiO <sub>2</sub> content	Metal sponge, Ti content			
Albania	--	3	--	--	--	--	--	--	--	--	
Armenia	--	--	--	--	--	--	20 <sup>e</sup>	--	--	--	
Austria	--	--	--	--	--	--	--	--	--	892	
Azerbaijan	--	--	--	--	--	--	4	--	--	--	
Belarus	--	--	--	--	--	--	--	--	--	--	
Belgium	--	--	--	--	--	--	--	--	--	--	
Bosnia and Herzegovina	--	--	--	--	--	--	--	--	--	--	
Bulgaria	--	--	--	--	--	35	--	--	--	--	
Croatia	--	--	--	--	--	--	--	--	--	--	
Cyprus	--	--	--	--	--	--	(4)	--	--	--	
Czechia	--	--	--	--	--	--	--	--	--	--	
Denmark and Greenland	--	--	--	--	--	--	--	--	--	--	
Estonia	--	--	--	--	--	--	--	--	--	--	
Finland	--	39	62	699	953	41	--	--	--	--	
France	--	--	7	--	--	--	--	--	--	--	
Georgia	116	--	--	-- <sup>e</sup>	-- <sup>e</sup>	1	--	--	--	--	
Germany	--	--	--	-- <sup>e</sup>	-- <sup>e</sup>	--	--	--	--	--	
Greece	--	14	--	--	--	28	--	--	--	--	
Hungary	--	--	--	--	--	--	--	--	--	--	
Iceland	--	--	--	--	--	--	--	--	--	--	
Ireland	--	--	--	--	--	2	--	--	--	--	
Italy	--	--	--	--	--	--	--	--	--	--	
Kazakhstan	217 <sup>e</sup>	--	--	--	--	420 <sup>e</sup>	15,000 <sup>e</sup>	23,000	--	--	
Kosovo	--	3	--	--	--	--	--	--	--	--	
Kyrgyzstan	--	--	--	--	--	13 <sup>e</sup>	--	--	--	--	
Latvia	--	--	--	--	--	--	--	--	--	--	
Lithuania	--	--	--	--	--	--	--	--	--	--	
Luxembourg	--	--	--	--	--	--	--	--	--	--	
Malta	--	--	--	--	--	--	--	--	--	--	
Moldova	--	--	--	--	--	--	--	--	--	--	
Montenegro	--	--	--	--	--	--	--	--	--	--	
Netherlands	--	--	--	--	--	--	--	--	--	--	
North Macedonia	--	--	--	--	--	--	--	--	--	--	
Norway	--	(4)	92	--	--	--	590,000 <sup>e</sup>	--	--	--	
Poland	--	--	--	5 <sup>e</sup>	8 <sup>e</sup>	1,456	--	--	--	--	

See footnotes at end of table.

TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>

(Thousand metric tons unless otherwise specified)

Country	Metals—Continued										
	Manganese, mine output, Mn content	Nickel, Ni content		Platinum-group metals, mine output, metal content (kilograms)		Silver, mine output, Ag content (metric tons)		Titanium (metric tons)		Tungsten, mine output, W content (metric tons)	
		Mine output	Refinery products	Palladium	Platinum	Ag content (metric tons)	Ilmenite, TiO <sub>2</sub> content	Metal sponge, Ti content	Titanium content	Tungsten, mine output, W content (metric tons)	
Portugal	--	--	--	--	48	--	--	--	--	518	
Romania	2 <sup>e</sup>	--	--	--	--	--	--	--	--	--	
Russia	14 <sup>e</sup>	166	98,000	24,000	2,000 <sup>e</sup>	4,000 <sup>e</sup>	45,900			2,200 <sup>e</sup>	
Serbia	--	--	37	4	--	--	--	--	--	--	
Slovakia	--	--	--	--	--	--	--	--	--	--	
Slovenia	--	--	--	--	--	--	--	--	--	--	
Spain	--	--	--	--	30 <sup>e</sup>	--	--	--	--	603	
Sweden	--	--	--	--	424	--	--	--	--	--	
Switzerland	--	--	--	--	--	--	--	--	--	--	
Tajikistan	--	--	--	--	7	--	--	--	--	--	
Turkey	16 <sup>e</sup>	17	--	--	242	--	--	--	--	--	
Turkmenistan	--	--	--	--	--	--	--	--	--	--	
Ukraine	574 <sup>e</sup>	--	--	--	--	330,000 <sup>e</sup>	8,000 <sup>e</sup>			--	
United Kingdom	--	35 <sup>e</sup>	--	--	NA	--	--	--	--	--	
Uzbekistan	--	--	--	--	189	--	--	--	--	--	
Regional total	939	355	98,736	24,957	4,960	939,000	76,900	4,213			
Share of world total	2.8%	14.0%	43.5%	13.3%	19.7%	9.8%	34.5%	5.0%			
United States	--	14	14,300	4,150	977	100,000	NA	--			
Share of world total	--	(7)	6.3%	2.2%	3.9%	1.0%	NA	--			
World total	33,200	2,540	227,000	187,000	25,200	9,550,000	223,000	83,800			

See footnotes at end of table.

TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>  
(Thousand metric tons unless otherwise specified)

Country	Metals—Continued			Industrial minerals							
	Zinc (metric tons)		Metal, primary and secondary	Barite	Cement, hydraulic	Diamond, natural, gemstones and industrial (thousand carats)	Nitrogen, N content of ammonia	Phosphate rock, P <sub>2</sub> O <sub>5</sub> content	Potash, K <sub>2</sub> O equivalent	Salt	
	Mine output, Zn content	secondary									
Albania	--	--	--	--	2,000 <sup>e</sup>	--	--	--	--	--	
Armenia	6,740	--	--	--	591	239	--	--	--	25	
Austria	--	34,000 <sup>e</sup>	--	--	5,300 <sup>e</sup>	--	455 <sup>e</sup>	--	--	2,207	
Azerbaijan	--	--	--	--	3,488	--	--	--	--	5	
Belarus	--	--	--	--	4,728	--	857	7,348	--	2,949	
Belgium	--	270,000 <sup>e</sup>	--	--	7,857	--	870 <sup>e</sup>	--	--	--	
Bosnia and Herzegovina	9,500	--	--	--	955	--	--	--	--	1,203	
Bulgaria	22,500	75,000 <sup>e</sup>	70	--	2,456	--	230 <sup>e</sup>	--	--	--	
Croatia	--	--	--	--	2,670 <sup>e</sup>	--	330 <sup>e</sup>	--	--	48	
Cyprus	--	--	--	--	1,537	--	--	--	--	--	
Czechia	--	--	--	--	4,569	--	130	--	--	--	
Denmark and Greenland	--	--	--	--	3,354	--	--	--	--	--	
Estonia	--	--	--	--	406	--	--	--	--	--	
Finland	68,153	290,844	--	--	--	--	--	410	--	--	
France	--	160,000 <sup>e</sup>	--	--	16,700 <sup>e</sup>	--	884	--	--	5,439	
Georgia	--	--	--	--	2,769	--	180 <sup>e</sup>	--	--	--	
Germany	--	180 <sup>e</sup>	40 <sup>e</sup>	--	40,000 <sup>e</sup>	--	2,420	20 <sup>e</sup>	3,400 <sup>e</sup>	15,500 <sup>e</sup>	
Greece	21,800	--	--	--	6,470 <sup>e</sup>	--	120 <sup>e</sup>	--	--	160 <sup>e</sup>	
Hungary	--	--	--	--	2,240 <sup>e</sup>	--	382	--	--	--	
Iceland	--	--	--	--	--	--	--	--	--	--	
Ireland	122,500	--	--	--	3,290 <sup>e</sup>	--	--	--	--	--	
Italy	--	188,504	--	--	19,290	--	--	--	--	1,874	
Kazakhstan	244,700	318,399	531	--	10,268	--	178	319	--	1,095	
Kosovo	3,100	--	--	--	816 <sup>e</sup>	--	--	--	--	--	
Kyrgyzstan	--	--	--	--	2,005	--	--	--	--	6	
Latvia	--	--	--	--	1,000 <sup>e</sup>	--	--	--	--	--	
Lithuania	--	--	--	--	1,223	--	874 <sup>e</sup>	--	--	--	
Luxembourg	--	--	--	--	1,100 <sup>e</sup>	--	--	--	--	--	
Malta	--	--	--	--	--	--	--	--	--	2 <sup>e</sup>	
Moldova	--	--	--	--	1,320 <sup>e</sup>	--	--	--	--	--	
Montenegro	19,036	--	--	--	--	--	--	--	--	--	
Netherlands	--	226,000 <sup>e</sup>	--	--	2,350 <sup>e</sup>	--	2,200 <sup>e</sup>	--	--	5,914	
North Macedonia	31,300 <sup>e</sup>	--	--	--	896	--	--	--	--	--	
Norway	--	195,374	--	--	1,760 <sup>e</sup>	--	--	--	--	--	
Poland	40,309	159,400	--	--	18,653	--	2,200 <sup>e</sup>	--	--	4,440	

See footnotes at end of table.

TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>

(Thousand metric tons unless otherwise specified)

Country	Metals—Continued			Industrial minerals									
	Zinc (metric tons)		Metal, primary and secondary	Barite	Cement, hydraulic	Diamond, natural, gemstones and industrial (thousand carats)	Nitrogen, N content of ammonia	Phosphate rock, P <sub>2</sub> O <sub>5</sub> content	Potash, K <sub>2</sub> O equivalent	Salt	Salt	Salt	
	Mine output, Zn content	Metal, secondary											
Portugal	161,569	--	--	4,050 <sup>e</sup>	--	--	--	--	--	--	5		
Romania	--	200	--	9,932	--	--	660 <sup>e</sup>	--	--	--	2,008		
Russia	220,000 <sup>e</sup>	250,000 <sup>e</sup>	163	57,679	45,300	5,360 <sup>e</sup>	15,000 <sup>e</sup>	7,340	5,360 <sup>e</sup>	7,340	8,160		
Serbia	6,900	--	--	2,151	--	--	60 <sup>e</sup>	--	--	--	13		
Slovakia	--	--	16 <sup>e</sup>	4,031	--	--	434	--	--	--	--		
Slovenia	--	--	--	710 <sup>e</sup>	--	--	--	--	--	--	1		
Spain	187,909	507,915	--	16,998	--	--	440	--	--	520	4,084		
Sweden	244,703	--	--	2,720 <sup>e</sup>	--	--	--	--	--	--	--		
Switzerland	--	--	--	4,210	--	--	14	--	--	--	477		
Tajikistan	66,000	--	--	4,202	--	--	--	--	--	--	35		
Turkey	150,000 <sup>e</sup>	--	298 <sup>e</sup>	56,966	--	190	390	--	190	--	6,961		
Turkmenistan	--	--	--	4,120	--	--	350 <sup>e</sup>	--	--	20 <sup>e</sup>	105 <sup>e</sup>		
Ukraine	--	--	--	9,201	--	--	1,502	--	--	--	2,093		
United Kingdom	--	--	55 <sup>e</sup>	9,079	--	--	790	--	--	--	4,700 <sup>e</sup>		
Uzbekistan	30,000 <sup>e</sup>	40,000 <sup>e</sup>	--	10,990	--	150 <sup>e</sup>	1,100	--	150 <sup>e</sup>	220 <sup>e</sup>	--		
Regional total	1,656,719	2,715,816	1,173	369,100	45,539	6,449	33,050	18,848	6,449	18,848	69,509		
Share of world total	12.9%	20.0%	9.9%	8.8%	33.0%	9.3%	24.3%	43.8%	9.3%	43.8%	24.4%		
United States	753,000	115,000	414	89,000	--	6,530	13,500	510	6,530	510	42,100		
Share of world total	5.9%	0.8%	3.5%	2.1%	--	9.5%	9.9%	1.2%	9.5%	1.2%	14.8%		
World total	12,800,000	13,600,000	11,900	4,200,000	138,000	69,100	136,000	43,000	69,100	43,000	285,000		

See footnotes at end of table.

TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>  
(Thousand metric tons unless otherwise specified)

Country	Mineral fuels and related materials					Uranium, mine output, U content (metric tons)
	Anthracite	Coal Bituminous	Lignite	Natural gas, dry (million cubic meters)	Petroleum, crude Including condensate, (thousand 42-gallon barrels)	
Albania	--	--	44	69	7,367	--
Armenia	--	--	--	--	--	--
Austria	--	--	--	891	4,595	--
Azerbaijan	--	--	--	24,514	273,000	--
Belarus	--	--	--	218	12	--
Belgium	--	--	--	--	--	--
Bosnia and Herzegovina	--	--	6,405	--	--	--
Bulgaria	--	--	27,972	28	NA	--
Croatia	--	--	--	1,490	4,356	--
Cyprus	--	--	--	--	--	--
Czechia	--	1,481	37,465	146	590	33
Denmark and Greenland	--	--	--	3,051	36,867	--
Estonia	--	--	--	--	--	--
Finland	--	--	--	--	--	--
France	--	--	--	28 <sup>e</sup>	5,840 <sup>e</sup>	--
Georgia	--	16	--	9	267	--
Germany	--	--	131,314	13	13,963	--
Greece	--	--	26,000	11 <sup>e</sup>	1,204	--
Hungary	--	6	6,790	1,382	4,000	--
Iceland	--	--	--	--	--	--
Ireland	--	--	--	2,300 <sup>e</sup>	--	--
Italy	--	--	--	4,620	32,392	--
Kazakhstan	--	104,809	5,929	34,524	658,000	22,761
Kosovo	--	--	8,063	--	--	--
Kyrgyzstan	--	345	2,188	24	1,733	--
Latvia	--	--	--	--	--	--
Lithuania	--	--	--	--	290	--
Luxembourg	--	--	--	--	--	--
Malta	--	--	--	--	--	--
Moldova	--	--	--	--	--	--
Montenegro	--	--	1,605	--	--	--
Netherlands	--	--	--	29,400	5,670	--
North Macedonia	--	--	5,019	--	--	--
Norway	--	108	--	115,200	524,505	--
Poland	--	50,009	50,329	5,374	7,218	--

See footnotes at end of table.



TABLE 3—Continued  
EUROPE AND CENTRAL EURASIA: PRODUCTION OF SELECTED MINERAL COMMODITIES IN 2019<sup>1,2</sup>  
(Thousand metric tons unless otherwise specified)

Country	Mineral fuels and related materials						Uranium, mine output, U content (metric tons)
	Coal		Natural gas, dry (million cubic meters)	Petroleum, crude including condensate (thousand 42-gallon barrels)	Uranium, mine output, U content (metric tons)		
	Anthracite	Bituminous				Lignite	
Portugal	--	--	--	--	--	--	--
Romania	--	--	21,653	9,990	26,200	--	--
Russia	22,027	261,000	82,171	738,381	3,700,000	2,911	2,911
Serbia	--	108	38,477	477	6,260	--	--
Slovakia	--	--	1,467	88 <sup>e</sup>	37 <sup>e</sup>	--	--
Slovenia	--	--	3,219	7	2	--	--
Spain	--	--	131	--	288	--	--
Sweden	--	--	--	--	--	--	--
Switzerland	--	--	--	--	--	--	--
Tajikistan	--	1,964	64	1	175	--	--
Turkey	--	1,207	80,820	483	21,900	--	--
Turkmenistan	--	--	--	62,000 <sup>e</sup>	85,400	--	--
Ukraine	6,323	24,901	4,600 <sup>e</sup>	20,520	17,700	801	801
United Kingdom	495	982	--	39,673	368,012	--	--
Uzbekistan	--	280 <sup>e</sup>	2,300 <sup>e</sup>	59,460	5,110	3,500	3,500
Regional total	28,845	447,216 <sup>5</sup>	543,894	1,154,434	5,812,953	30,006	30,006
Share of world total	6.2%	9.9%	49.0%	28.0%	18.6%	55.3%	55.3%
United States	2,370 <sup>6</sup>	243,000 <sup>6</sup>	48,300 <sup>6</sup>	960,000 <sup>6</sup>	4,470,000 <sup>6</sup>	58 <sup>7</sup>	58 <sup>7</sup>
Share of world total	0.5%	5.4%	4.4%	23.3%	14.3%	0.1%	0.1%
World total	462,000	4,520,000 <sup>5</sup>	1,110,000	4,120,000	31,300,000	54,300	54,300

<sup>e</sup>Estimated. NA Not available. W Withheld to avoid disclosing company proprietary data. -- Zero or zero percent.

<sup>1</sup>Table includes data available through December 20, 2021. All data are reported unless otherwise noted. World totals, U.S. data, and estimated data are rounded to no more than three significant digits; may not add to totals shown. Percentages are calculated using unrounded data.

<sup>2</sup>Some of the individual entries in this table may differ from those that appear in individual country production tables elsewhere in this volume owing to the inclusion in this table of data received at a later date.

<sup>3</sup>Primary production also includes undifferentiated (primary and secondary) production for some countries listed.

<sup>4</sup>Less than 1/2 unit.

<sup>5</sup>Also contains a minimum amount of undifferentiated anthracite.

<sup>6</sup>Source: U.S. Energy Information Administration.

<sup>7</sup>Source: World Nuclear Association.

## Europe and Central Eurasia region



**Figure 2.** Pie charts showing percentage of world production of selected mineral commodities [coal (lignite), nickel, palladium, potash, titanium, and uranium] by countries of the Europe and Central Eurasia region in 2019. Individual countries of the region are labeled if they accounted for at least 3% of world production. Data are from table 3; however, percentages may differ slightly from those shown in table 3 because of independent rounding. Also, percentages may differ from those reported in individual country chapters owing to differences in the source or date of reporting.