

The Czech Republic mine production and mineral reserves – Overview in the year 2011

Mineral	Specifications	production		Reserves																		
		2011	Category in Czech wording	Category in English wording	Reserves of the given category in 2011		Category in Czech wording	Category in English wording	Reserves of the given category in 2011		Category in Czech wording	Category in English wording	Reserves of the given category in 2011									
					2011	Category in Czech wording			2011	Category in Czech wording			2011	Category in Czech wording								
Energy minerals																						
Bituminous coal	ths tonnes	10 967			16 339 004			1 518 929			5 998 902			8 821 173			180 729					
Brown coal	ths tonnes (Czech Statistical Office presents so-called sales mine production which is production of marketable brown coal and reaches on average about 95 % of given mine production)	46 848	Celkem	Total	8 955 389	Bilanciální prozkoumané	Economic explored	2 361 735	Bilanciální vyhledané	Economic prospected	2 063 444	Nebilanciální	Potentially economic	4 530 210	Vyřezitelné	Exploitable (recoverable)	881 142					
Crude oil	ths tonnes	163																30 927	20 362	3 983	6 582	1 659
Lignite	ths tonnes	0																997 229	619 652	229 932	147 645	0
Natural gas	mil m ³ = ths tonnes	187																30 172	7 374	2 335	20 463	3 166
Uranium	Concentrate production, tonnes U (corresponds to sales production (without beneficiation losses))	216																135 276	1 406	19 402	114 468	338
Industrial minerals																						
Barite	ths tonnes	0			569			0			0			569			0					
Bentonite	ths tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	160			337 159			73 849			161 400			101 910			29 599					
Clays	ths tonnes	499			923 546			180 394			401 419			341 733			51 742					
Diatomite	ths tonnes	46			4 318			3 990			328			0			4 303					
Dolomite	ths tonnes	369			512 645			77 608			340 843			94 194			10 229					
Feldspar	ths tonnes	407			68 276			27 392			27 079			13 805			24 940					
Feldspar substitutes	ths tonnes	22			199 905			0			199 905			0			24 335					
Fluorspar	ths tonnes	0			2 033			0			0			2 033			0					
Foundry sand	ths tonnes	395			407 618			128 903			133 460			145 255			78 642					
Gemstones	Pyrope bearing rock	ths tonnes	17		19 471			3 288			13 002			3 181			1 176					
	Moldavite (tectite) bearing rock	ths m ³	65		728			168			557			3			668					
Glass sand	ths tonnes (1 m ³ = 1.8 tonnes)	117			1 310			302			1 003			5			1 202					
Gypsum	ths tonnes	976			256 942			86 844			25 523			144 575			79 873					
Graphite	ths tonnes	0			14 159			1 321			4 041			8 797			50					
Kaolin	Raw, ths tonnes (total production of all technological grades)	3 606			1 204 390			234 060			507 128			463 202			102 257					
Limestones and corrective additives for cement production	ths tonnes	11 244			4 873 981			2 070 673			1 934 136			869 172			1 539 899					
Silica minerals	ths tonnes	24			26 166			907			20 507			4 752			515					
Construction minerals																						
Brick clays and related minerals	Mine production in reserved deposits, ths m ³ (decrease of)	932			542 022			206 577			232 827			102 618			64 217					
	Mine production in reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	1 678			975 640			371 839			419 089			184 712			115 591					
	Mine production in non-reserved deposits, ths m ³ (estimate)	147			686 515			63 622			516 040			106 853			707					
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	265			1 235 727			114 520			928 872			192 335			1 273					
Crushed stone	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	12 299			2 392 105			1 157 255			1 090 044			144 806			717 064					
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	33 207			6 458 684			3 124 589			2 943 119			390 976			1 936 073					
	Mine production in non-reserved deposits, ths m ³ (estimate)	1 300			1 019 574			43 075			892 905			83 594			46 249					
Dimension stone	production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	3 510			2 752 850			116 303			2 410 844			225 704			124 872					
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	192			183 024			79 557			65 422			38 045			79 100					
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	518			494 165			214 804			176 639			102 722			213 570					
	Mine production in non-reserved deposits, ths m ³ (estimate)	46			33 437			2 264			28 217			2 956			2 120					
Sand and gravel	Mine production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	130			90 280			6 113			76 186			7 981			5 724					
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	6 902			2 126 416			1 126 123			780 412			219 881			362 676					
	Mine production in reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	12 424			3 827 549			2 027 021			1 404 742			395 786			652 817					
	Mine production in non-reserved deposits, ths m ³ (estimate)	5 000			2 078 255			107 945			1 731 910			238 400			54 567					
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	9 000			3 740 859			194 301			3 117 438			429 120			98 221					
Metallic ores (not mined in the Czech Republic)																						
Copper	ths tonnes Cu	0			49			0			0			49								
Gold	ths tonnes Au	0			240			49			29			162								
Lead	ths tonnes Pb	0			152			0			0			152								
Manganese	ths tonnes ore	0			138 801			0			0			138 801								
Silver	ths tonnes Ag	0			532			0			0			532								
Tin	ths tonnes Sn	0			164			0			0			164								
Tungsten	ths tonnes W	0			70			0			0			70								
Zinc	ths tonnes Zn	0			472			0			0			472								

Notes:

Bituminous coal	The calorific value of 20 % mined bituminous coal Qir is between 27.4 – 29.2 MJ/kg and ash content Ad between 8.1 – 13.5 %. Additional 33 % of mined coal has the calorific value Qir between 22.93 – 26.91 MJ/kg and ash content Ad between 16.1 – 25.0 % and 47 % of mined coal has the calorific value Qir between 17.78 – 20.62 MJ/kg and ash content Ad 34.4 – 40.2 %.
Brown coal	9 % of the mined brown coal has calorific value Qir 18.76 MJ/kg, ash content Ad 13.5 % and sulfur content Sd 1.5 %, 25 % of the mined coal has calorific value Qir between 13.9 – 15.57 MJ/kg, ash content Ad between 17.0 – 28.87 % and sulfur content Sd 0.80 – 1.09 %. Almost 66 % of the mined brown coal has calorific value Qir 10.37 – 12.9 MJ/kg, ash content Ad 23.00 – 42.4 % and sulfur content Sd 0.8 – 2.8 %.
Lignite	Lignite was not mined in 2011.
Construction minerals	Reserved mineral deposits are owned by the Czech Republic. Non-reserved deposits (especially lot of sand and gravel, crushed stone and brick clay deposits) are a constituent part of the land and are owned by landowners.