

The Czech Republic mine production and mineral reserves – Overview in the year 2008

Mineral	Specifications	Mine production		Reserves													
		2008	Category in Czech wording	Category in English wording	Reserves of the given category in 2008			Reserves of the given category in 2008			Reserves of the given category in 2008			Reserves of the given category in 2008			
					2008	Category in Czech wording	Category in English wording	2008	Category in Czech wording	Category in English wording	2008	Category in Czech wording	Category in English wording	2008	Category in Czech wording	Category in English wording	
Energy minerals																	
Bituminous coal	ths tonnes	12 197			16 193 970			1 523 979			5 928 406			8 741 585			192 182
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)	47 456			9 080 892			2 608 212			2 168 466			4 314 214			906 190
Crude oil	ths tonnes	236			31 144			15 553			5 113			10 478			1 698
Lignite	ths tonnes	416			975 702			204 221			615 273			156 208			2 165
Natural gas	ml m ³ = ths tonnes	167			46 043			4 264			39 806			1 973			6 982
Uranium	Concentrate production, ths tonnes U (corresponds to sales production (without beneficiation losses))	261			136 553			1 545			19 427			114 581			593
Industrial minerals																	
Barite	ths tonnes	0			569			0			0			569			0
Bentonite	ths tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	174			319 613			51 228			163 176			105 209			18 760
Clays	ths tonnes	574			927 639			179 551			397 614			350 474			42 301
Diatomite	ths tonnes	31			4 401			4 073			328			0			4 381
Dolomite	ths tonnes	449			513 719			78 600			340 843			94 276			11 222
Feldspar	ths tonnes	488			69 234			28 594			26 829			13 811			14 625
Feldspar substitutes	ths tonnes	36			199 959			0			199 959			0			21 623
Fluorspar	ths tonnes	0			2 033			0			2 033			0			0
Foundry sand	ths tonnes	702			378 977			134 202			80 455			164 320			75 774
Gemstones	Pyrope bearing rock	ths tonnes	24		19 131			3 360			12 882			2 889			1 249
	Moldavite (tectite) bearing rock	ths m ³	99		397			0			394			3			218
Glass sand	ths tonnes	1 151			260 440			90 231			25 781			144 428			82 773
	Graphite	ths tonnes	3		14 159			1 321			4 041			8 797			35
Gypsum	ths tonnes	35			504 295			119 168			302 990			82 137			2 327
Kaolin	Raw, ths tonnes (total production of all technological grades)	3 833			1 212 124			244 495			497 356			470 273			79 040
	Beneficiated, ths tonnes	672															
Limestones and corrective additives for cement production	ths tonnes	11 465			4 887 479			2 083 907			1 934 761			868 811			1 563 968
Silica minerals	ths tonnes	18			28 655			907			22 996			4 752			714
Construction minerals																	
Brick clays and related minerals	Mine production in reserved deposits, ths m ³ (decrease of	1 242			549 753			217 782			232 729			99 242			68 191
	Mine production in reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	2 236			989 555			392 008			418 912			178 636			122 744
	Mine production in non-reserved deposits, ths m ³ (estimate)	270			687 075			65 114			515 487			106 474			1 054
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	486			1 236 735			117 205			927 877			191 653			1 897
Crushed stone	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	14 799			2 990 511			1 138 025			1 017 433			135 053			661 529
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	39 957			6 184 380			3 072 668			2 747 069			364 643			1 786 128
	Mine production in non-reserved deposits, ths m ³ (estimate)	1 600			1 036 450			45 616			910 512			80 322			36 208
Dimension stone	production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	4 320			2 798 415			123 163			2 458 382			216 869			97 762
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	229			187 131			81 864			66 465			38 802			85 096
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	618			505 254			221 033			179 456			104 785			229 759
Sand and gravel	Mine production in non-reserved deposits, ths m ³ (estimate)	45			33 503			2 304			28 243			2 956			2 775
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	121			90 458			6 221			76 256			7 981			7 493
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	8 770			2 125 644			1 132 411			765 844			227 389			341 758
Sand and gravel	Mine production in reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	15 786			3 826 159			2 038 340			1 378 519			409 300			615 164
	Mine production in non-reserved deposits, ths m ³ (estimate)	6 350			2 096 378			109 392			1 746 049			240 937			53 659
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	11 430			3 773 480			196 906			3 142 888			433 687			96 586
Metallic ores (not mined in the Czech Republic)																	
Copper	ths tonnes Cu	0			49			0			0			49			0
Gold	ths tonnes Au	0			240			49			29			162			0
Lead	ths tonnes Pb	0			152			0			0			152			0
Manganese	ths tonnes ore	0			138 801			0			0			138 801			0
Silver	ths tonnes Ag	0			532			0			0			532			0
Tin	ths tonnes Sn	0			164			0			0			164			0
Tungsten	ths tonnes W	0			70			0			0			70			0
Zinc	ths tonnes Zn	0			472			0			0			472			0

Notes:

Bituminous coal	The calorific value of mined coal (88 % of total reserves) Qir is mostly 23 – 30 MJ/kg and ash content Ad between 10 and 30 %. Additional 7 % of total reserves have the calorific value Qir between 16 – 20 MJ/kg in average and ash content Ad between 24 and 40 %, 3 % of total reserves have the average calorific value Qir mostly 18–22 MJ/kg and ash content Ad 20 - 40 % and 2 % of total reserves have the average calorific value Qir mostly 11-14 MJ/kg and ash content Ad 34 - 61 %
Brown coal	73 % of the total reserves have calorific value Qir 10.04 – 17.25 MJ/kg, ash content Ad between 8.70 and 43.50 % and sulfur content Sd 0.50 – 2.70 %. 19 % of the total reserves have calorific value Qir about 10 MJ/kg, ash content Ad between 20 and 40 % and sulfur content Sd 2 - 4 %. 8 % of the total reserves have calorific value Qir 11.70 – 13.10 MJ/kg, ash content Ad 19.50 – 24.00 % and sulfur content Sd 0.70 – 1.30 %
Lignite	The total reserves have calorific value Qir 9.10 – 9.46 MJ/kg, ash content Ad 22.70 – 23.70 % and sulfur content Sd 1.55 – 1.65 %
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