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	Category in Czech wording	Category in English wording	Reserves of the given category in 2008	Category in Czech wording	Category in English wording	Reserves of the given category in 2008	Category in Czech wording	Category in English wording	Reserves of the given category in 2008	Category in Czech wording	Category in English wording	Reserves of the given category in 2008
Energy minerals																		
Bituminous coal	ths tonnes	12 197	Celkem	Total	16 193 970	Bilanční prozkoumané	Economic explored	1 523 979	Bilanční vyhledané	Economic prospected	5 928 406	Neblanční	Potentially economic	8 741 585	Vytěžitelné	Exploitable (recoverable)	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	mil m^3 = ths tonnes	167			46 043			4 264			39 806			1 973			6 982
Uranium	tonnes U	290			135 553			1 545			19 427			114 581			503
	Concentrate production, tonnes U (corresponds to sales production (without beneficiation losses))	261															
Industrial minerals																		
Barite	ths tonnes	0	Celkem	Total	569	Bilanční prozkoumané	Economic explored	0	Bilanční vyhledané	Economic prospected	0	Neblanční	Potentially economic	569	Vytěžitelné	Exploitable (recoverable)	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			199 969			0			199 969			0			21 623
Fluorspar	ths tonnes	0			2 033			0			0			2 033			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
Gemstones – **Moldavite (tectite) bearing rock**	ths m^3	99			397			0			394			3			218
	ths tonnes (1 m^3 = 1.8 tonnes)	178			715			0			709			5			392
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 m3 (decrease of	1 242	Celkem	Total	549 753	Bilanční prozkoumané	Economic explored	217 782	Bilanční vyhledané	Economic prospected	232 729	Neblanční	Potentially economic	99 242	Vytěžitelné	Exploitable (recoverable)	68 191
	Mine production in reserved deposits, ths tonnes (1m3 = 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 m3 (estimate)	261			687 075			65 114			515 487			106 474			1 054
	Mine production in non-reserved deposits, ths tonnes (1m3 = 1.8 tonnes) (estimate)	470			1 236 735			117 205			927 877			191 653			1 897
Crushed stone	Mine production in reserved deposits, ths m3 (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 (1m3 = 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 m3 (estimate)	1 591			1 036 450			45 616			910 512			80 322			36 208
	production in non-reserved deposits, ths tonnes (1m3 = 2.7 tonnes) (estimate)	4 296			2 798 415			123 163			2 458 382			216 869			97 762
Dimension stone	Mine production in reserved deposits, ths m3 (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 (1m3 = 2.7 tonnes) (decrease of mineral reserves by mine production)	618			505 254			221 033			179 456			104 765			229 759
	Mine production in non-reserved deposits, ths m3 (estimate)	39			33 503			2 304			28 243			2 956			2 775
	Mine production in non-reserved deposits, ths tonnes (1m3 = 2.7 tonnes) (estimate)	105			90 458			6 221			76 256			7 981			7 493
Sand and gravel	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
	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 m3 (estimate)	6 325			2 096 378			109 392			1 746 049			240 937			53 659
	Mine production in non-reserved deposits, ths tonnes (1m3 = 1.8 tonnes) (estimate)	11 385			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	Celkem	Total	49	Bilanční prozkoumané	Economic explored	0	Bilanční vyhledané	Economic prospected	0	Neblanční	Potentially economic	49			
Gold	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	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 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