

The Czech Republic mine production and mineral reserves – Overview in the year 2007

Mineral	Specifications	Mine production		R e s e r v e s													
		2007	Category in Czech wording	Category in English wording	Reserves of the given category in 2007		Category in Czech wording	Category in English wording	Reserves of the given category in 2007		Category in Czech wording	Category in English wording	Reserves of the given category in 2007		Category in Czech wording	Category in English wording	Reserves of the given category in 2007
					2007	Category in Czech wording			2007	Category in Czech wording			2007	Category in Czech wording			
Energy minerals																	
Bituminous coal	this tonnes	12 462			16 159 327			1 566 771			5 876 191			8 716 365			182 165
Brown coal	this 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)	49 134			9 140 769			2 516 982			2 305 437			4 318 350			931 488
Crude oil	this tonnes	240			31 118			14 602			5 163			11 253			1 793
Lignite	this tonnes	437			978 387			204 412			615 273			156 682			2 107
Natural gas	ml m ³ = this tonnes	148			45 989			4 139			39 785			2 085			27 810
Uranium	Concentrate production, tonnes U (corresponds to sales production (without beneficiation losses))	322			135 729			1 677			19 435			114 617			643
Industrial minerals																	
Barite	this tonnes	0			569			0			0			569			0
Bentonite	this tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	335			317 813			50 895			162 625			104 293			18 901
Clays	this tonnes	679			927 520			185 168			396 645			345 707			46 248
Diatomite	this tonnes	19			4 342			4 104			328			0			4 412
Dolomite	this tonnes	385			514 168			79 041			340 843			94 284			11 562
Feldspar	this tonnes	514			71 092			30 126			27 220			13 746			15 213
Feldspar substitutes	this tonnes	0			200 005			0			200 005			0			21 659
Fluorspar	this tonnes	0			2 033			0			0			2 033			0
Foundry sand	this tonnes	850			378 201			134 964			80 465			162 772			76 707
Gemstones	Pyrope bearing rock	34			19 155			3 384			12 882			2 889			180
	Moldavite (tectite) bearing rock	114			767			0			763			3			587
	this tonnes (1 m ³ = 1.8 tonnes)	205			1 381			0			1 373			0			1 057
Glass sand	this tonnes	942			254 871			91 391			25 892			137 588			83 812
Graphite	this tonnes	3			14162			1 324			4 041			8 797			53
Gypsum	this tonnes	66			504 439			119 222			302 990			82 137			2 391
Kaolin	Raw, this tonnes (total production of all technological grades)	3 604			1 220 325			249 703			497 185			473 437			79 411
	Beneficiated, this tonnes	682			0			0			0			0			0
Limestones and corrective additives for cement production	this tonnes	11 670			4 279 084			1 755 091			1 779 279			745 714			1 579 411
Silica minerals	this tonnes	19			28 673			907			23 014			4 752			732
Construction minerals																	
Brick clays and related minerals	Mine production in reserved deposits, this m ³ (decrease of mineral reserves by mine production)	1 433			559 324			220 955			238 341			100 028			70 550
	Mine production in reserved deposits, this tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	2 579			1 006 783			397 719			429 014			180 050			126 990
	Mine production in non-reserved deposits, this m ³ (estimate)	300			686 605			65 161			515 170			106 474			1 315
	Mine production in non-reserved deposits, this tonnes (1m ³ = 1.8 tonnes) (estimate)	540			1 235 689			117 290			927 306			191 653			2 367
Crushed stone	Mine production in reserved deposits, this m ³ (decrease of mineral reserves by mine production)	14 655			2 266 643			1 129 149			1 005 144			132 350			667 128
	Mine production in reserved deposits, this tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	39 569			6 119 936			3 048 702			2 713 889			357 345			1 801 246
	Mine production in non-reserved deposits, this m ³ (estimate)	1 350			1 033 583			46 090			907 050			80 443			29 804
Dimension stone	Mine production in reserved deposits, this tonnes (1m ³ = 2.7 tonnes) (estimate)	3 645			2 790 674			124 443			2 449 035			217 196			80 471
	Mine production in reserved deposits, this m ³ (decrease of mineral reserves by mine production)	242			190 993			83 262			66 778			40 954			81 600
	Mine production in reserved deposits, this tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	653			515 681			224 807			180 301			110 576			220 320
	Mine production in non-reserved deposits, this m ³ (estimate)	48			33 211			2 307			27 988			2 916			2 881
Sand and gravel	Mine production in reserved deposits, this tonnes (1m ³ = 2.7 tonnes) (estimate)	130			89 670			6 229			75 568			7 873			7 779
	Mine production in reserved deposits, this m ³ (decrease of mineral reserves by mine production)	9 185			2 145 635			1 141 041			777 699			227 095			345 367
	Mine production in reserved deposits, this tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	16 533			3 862 503			2 053 874			1 399 858			408 771			621 661
	Mine production in non-reserved deposits, this m ³ (estimate)	6 450			2 092 389			107 711			1 743 741			240 937			53 224
	Mine production in non-reserved deposits, this tonnes (1m ³ = 1.8 tonnes) (estimate)	11 610			3 766 300			193 880			3 138 734			433 687			95 803
Metallic ores (not mined in the Czech Republic)																	
Copper	this tonnes Cu	0			49			0			0			49			0
Gold	tonnes Au	0			240			49			29			162			0
Lead	this tonnes Pb	0			152			0			0			152			0
Manganese	this tonnes ore	0			138 801			0			0			138 801			0
Silver	tonnes Ag	0			532			0			0			532			0
Tin	this tonnes Sn	0			164			0			0			164			0
Tungsten	this tonnes W	0			70			0			0			70			0
Zinc	this 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