

The Czech Republic mine production and mineral reserves – Overview in the year 2010

Mineral	Specifications	Mine production				R e s e r v e s											
		2010	Category in Czech in English wording	Reserves of the given category in 2010	Category in Czech in English wording	2010	Category in Czech in English wording	Reserves of the given category in 2010	Category in Czech in English wording	Reserves of the given category in 2010	Category in Czech in English wording	Reserves of the given category in 2010	Category in Czech in English wording	Reserves of the given category in 2010			
															2010	Category in Czech in English wording	2010
Energy minerals																	
Bituminous 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)	11 193	Cellekem	Total	16 421 504	Bilanci prozkoumané	Economic explored	1 536 411	Bilanci vyhledané	Economic prospected	6 009 407	Nebilanci	Potentially economic	8 875 686	Vyřizitelné	Exploitable (recoverable)	168 917
Brown coal	43 931	8 998 999			2 405 345			2 063 444			4 530 210			915 100			
Crude oil	173	29 015			15 424			4 475			9 116			1 415			
Lignite	0	975 261			203 780			615 273			156 208			1 903			
Natural gas	201	28 924			6 123			2 281			20 520			4 767			
Uranium	tonnes U (concentrate production, tonnes U (without beneficiation losses))	237	135 361	1 416	19 427	114 518	374										
Industrial minerals																	
Barite	this tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	0	Cellekem	Total	569	Bilanci prozkoumané	Economic explored	0	Bilanci vyhledané	Economic prospected	0	Nebilanci	Potentially economic	569	Vyřizitelné	Exploitable (recoverable)	0
Bentonite	183	304 673			62 401			139 670			102 602			28 402			
Clays	429	924 112			180 945			401 419			341 748			46 990			
Diatomite	32	4 267			4 035			338			0			4 349			
Dolomite	385	512 998			77 959			340 843			94 194			10 581			
Feldspar	388	68 696			27 784			27 107			13 805			15 960			
Feldspar substitutes	19	199 927			0			199 927			0			24 357			
Fluorspar	0	2 033			0			0			2 033			0			
Foundry sand	473	409 668			129 561			133 470			146 637			75 026			
Gemstones	Pyrope bearing rock	23			19 487			3 305			13 283			2 899			1 193
	Moldavite (tektite) bearing rock	57			794			190			601			3			732
	this tonnes (1 m ³ = 1.8 tonnes)	103			1 429			342			1 082			5			1 318
Glass sand	888	258 366			88 415			25 523			144 428			80 782			
Graphite	0	14 150			1 321			4 041			8 797			35			
Gypsum	5	504 269			119 142			302 990			82 137			2 301			
Kaolin	Raw, this tonnes (total production of all technological grades)	3 493			1 207 631			240 673			504 736			462 222			93 056
	Beneficiated, this tonnes	636															
Limestones and corrective additives for cement production	this tonnes	9 828			4 887 573			2 082 724			1 934 314			870 535			1 548 033
Silica minerals	this tonnes	14	28 626	907	22 967	4 752	540										
Construction minerals																	
Brick clays and related minerals	Mine production in reserved deposits, the m ³ (decrease of mine production in reserved deposits, the tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	838	Cellekem	Total	546 392	Bilanci prozkoumané	Economic explored	212 276	Bilanci vyhledané	Economic prospected	231 886	Nebilanci	Potentially economic	102 230	Vyřizitelné	Exploitable (recoverable)	64 070
	Mine production in non-reserved deposits, the m ³ (estimate)	1 508			983 506			382 097			417 395			184 014			115 326
	Mine production in non-reserved deposits, the tonnes (1m ³ = 1.8 tonnes) (estimate)	182			683 609			63 622			513 134			106 853			544
	Mine production in non-reserved deposits, the tonnes (1m ³ = 1.8 tonnes) (estimate)	328			1 230 496			114 520			923 641			192 335			979
Crushed stone	Mine production in reserved deposits, the m ³ (decrease of mineral reserves by mine production)	12 350			2 392 813			1 156 294			1 089 355			147 164			715 142
	Mine production in reserved deposits, the tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	33 350			6 460 595			3 121 994			2 941 259			397 343			1 930 883
	Mine production in non-reserved deposits, the m ³ (estimate)	1 450			1 011 792			43 376			888 377			80 039			35 985
	Mine production in non-reserved deposits, the tonnes (1m ³ = 2.7 tonnes) (estimate)	3 920			2 731 838			117 115			2 398 618			216 105			97 160
Dimension stone	Mine production in reserved deposits, the m ³ (decrease of mineral reserves by mine production)	262			183 677			79 950			65 577			37 970			82 224
	Mine production in reserved deposits, the tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	707			495 928			215 865			177 544			102 519			222 005
	Mine production in non-reserved deposits, the m ³ (estimate)	43			33 503			2 280			28 267			2 956			2 686
	Mine production in non-reserved deposits, the tonnes (1m ³ = 2.7 tonnes) (estimate)	116			90 458			6 156			76 321			7 981			7 252
Sand and gravel	Mine production in reserved deposits, the m ³ (decrease of mineral reserves by mine production)	6 187	2 134 304	1 129 913	782 190	222 201	358 569										
	Mine production in reserved deposits, the tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	11 140	3 841 747	2 033 843	1 407 942	399 962	645 424										
	Mine production in non-reserved deposits, the m ³ (estimate)	4 500	2 080 639	107 925	1 734 314	238 400	50 288										
	Mine production in non-reserved deposits, the tonnes (1m ³ = 1.8 tonnes) (estimate)	8 100	3 745 150	194 265	3 121 765	429 120	90 518										
Metallic ores (not mined in the Czech Republic)																	
Copper	this tonnes Cu	0	Cellekem	Total	49	Bilanci prozkoumané	Economic explored	0	Bilanci vyhledané	Economic prospected	0	Nebilanci	Potentially economic	49	Vyřizitelné	Exploitable (recoverable)	0
Gold	tonnes Au	0			240			49			29			0			
Lead	this tonnes Pb	0			152			0			152			0			
Manganese	this tonnes ore	0			138 801			0			138 801			0			
Silver	tonnes Ag	0			532			0			532			0			
Tin	this tonnes Sn	0			164			0			164			0			
Tungsten	this tonnes W	0			70			0			70			0			
Zinc	this tonnes Zn	0			472			0			472			0			

Notes:

Bituminous coal The calorific value of 17 % mined bituminous coal Qir is between 28.15 – 28.45 MJ/kg and ash content Ad between 11.70 – 12.80 %. Additional 41 % of mined coal has the calorific value Qir between 22.85 – 26.39 MJ/kg and ash content Ad between 14.40 – 25.40 % and 42 % of mined coal has the calorific value Qir between 18.98 – 19.91 MJ/kg and ash content Ad 33.80 – 39.40 %.

Brown coal 10 % of the mined brown coal has calorific value Qir 17.57 MJ/kg, ash content Ad 17.20 % and sulfur content Sd 1.40 %. 40 % of the mined coal has calorific value Qir between 13.40 – 15.24 MJ/kg, ash content Ad between 18.00 – 27.36 % and sulfur content Sd 0.80 – 1.70 % and almost 50 % of the mined brown coal has calorific value Qir 10.52 – 12.70 MJ/kg, ash content Ad 23.00 – 41.50 % and sulfur content Sd 0.70 – 2.70 %.

Lignite The mined lignite has calorific value Qir 9.53 MJ/kg, ash content Ad 23.10 % and sulfur content Sd 1.78 %.

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.