

The Czech Republic mine production and mineral reserves – Overview in the year 2014

Mineral	Specifications	production		Reserves													
		2014	Category in Czech wording	Category in English wording	Reserves of the given category in		Category in Czech wording	Category in English wording	Reserves of the given category in		Category in Czech wording	Category in English wording	Reserves of the given category in				
					2014	Category in Czech wording			2014	Category in Czech wording			2014	Category in Czech wording	2012	Category in English wording	
<b>Energy minerals</b>																	
Bituminous coal	ths tonnes	8 341			16 304 609			1 475 446			5 993 812			8 835 351			56 299
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)	38 348			8 826 333			2 273 951			2 062 445			4 489 937			784 531
Crude oil	ths tonnes	147			28 663			21 100			1 747			5 816			1 444
Lignite	ths tonnes	0			997 229			619 652			229 932			147 645			1 903
Natural gas	mil m <sup>3</sup> = ths tonnes	198			30 905			7 491			2 956			20 458			3 364
Uranium	Concentrate production, tonnes U (corresponds to sales production (without beneficiation losses))	146			135 071			1 321			19 463			114 287			314
<b>Industrial minerals</b>																	
Barite	ths tonnes	0			569			0			0			569			0
Bentonite	ths tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	301			306 992			73 515			128 326			105 151			30 842
Clays	ths tonnes	518			922 396			176 291			398 263			347 842			42 102
Diatomite	ths tonnes	34			2 482			1 772			0			710			1 590
Dolomite	ths tonnes	449			526 376			84 866			348 288			93 222			11 770
Feldspar	ths tonnes	422			69 729			25 456			30 793			13 480			23 887
Feldspar substitutes	ths tonnes	17			199 859			0			199 859			0			0
Fluorspar	ths tonnes	0			2 033			0			0			2 033			0
Foundry sand	ths tonnes	603			408 071			127 394			133 370			147 307			77 778
Gemstones	Pyrope bearing rock	ths tonnes	18		19 425			3 242			13 002			3 181			325
	Moldavite (tectite) bearing rock	ths m <sup>3</sup>	45		641			130			508			3			592
	ths tonnes (1 m <sup>3</sup> = 1.8 tonnes)	81			1 154			234			914			5			1 066
Glass sand	ths tonnes	734			254 063			83 971			25 077			145 015			77 789
Graphite	ths tonnes	0			13 570			1 106			2 017			10 447			50
Gypsum	ths tonnes	11			504 215			119 088			302 990			82 137			2 247
Kaolin	Raw, ths tonnes (total production of all technological grades)	3 281			1 189 075			231 203			499 854			458 018			104 177
	Beneficiated, ths tonnes	617															
Limestones and corrective additives for cement production	ths tonnes	10 342			4 941 327			2 030 652			2 027 898			882 777			1 326 321
Silica minerals	ths tonnes	16			25 732			763			20 280			4 689			511
<b>Construction minerals</b>																	
Brick clays and related minerals	Mine production in reserved deposits, ths m <sup>3</sup> (decrease of	677			535 415			202 120			232 197			101 098			58 893
	deposits, ths tonnes (1m <sup>3</sup> = 1.8 tonnes) (decrease of mineral reserves by mine production)	1 219			963 747			363 816			417 955			181 976			106 007
	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	161			688 478			63 622			518 003			106 853			1 574
	Mine production in non-reserved deposits, ths tonnes (1m <sup>3</sup> = 1.8 tonnes) (estimate)	290			1 239 260			114 520			932 405			192 335			2 834
Crushed stone	Mine production in reserved deposits, ths tonnes (1m <sup>3</sup> = 2.7 tonnes) (decrease of mineral reserves by mine production)	12 341			2 373 413			1 142 842			1 086 152			144 419			649 252
	Mine production in reserved deposits, ths tonnes (1m <sup>3</sup> = 2.7 tonnes) (decrease of mineral reserves by mine production)	33 321			6 408 215			3 085 673			2 932 610			389 931			1 752 980
	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	982			1 022 822			42 182			897 496			83 144			45 084
	production in non-reserved deposits, ths tonnes (1m <sup>3</sup> = 2.7 tonnes) (estimate)	2 651			2 761 619			113 891			2 423 239			224 489			121 725
Dimension stone	Mine production in reserved deposits, ths m <sup>3</sup> (decrease of mineral reserves by mine production)	145			182 369			77 565			65 248			39 556			89 801
	Mine production in reserved deposits, ths tonnes (1m <sup>3</sup> = 2.7 tonnes) (decrease of mineral reserves by mine production)	392			492 396			209 426			176 170			106 801			242 463
	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	58			33 249			2 232			28 101			2 916			1 582
	Mine production in non-reserved deposits, ths tonnes (1m <sup>3</sup> = 2.7 tonnes) (estimate)	157			89 772			6 026			75 873			7 873			4 270
Sand and gravel	Mine production in reserved deposits, ths m <sup>3</sup> (decrease of mineral reserves by mine production)	5 753			2 107 455			1 084 172			794 870			228 413			381 288
	Mine production in reserved deposits, ths tonnes (1m <sup>3</sup> = 1.8 tonnes) (decrease of mineral reserves by mine production)	10 355			3 793 419			1 951 510			1 430 766			411 143			686 318
	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	4 063			2 108 029			106 102			1 761 945			239 982			50 694
	Mine production in non-reserved deposits, ths tonnes (1m <sup>3</sup> = 1.8 tonnes) (estimate)	7 313			3 794 452			190 984			3 171 501			431 968			91 249
<b>Metallic ores (not mined in the Czech Republic)</b>																	
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			
Lithium	ths tonnes Li	0			112 775			0			0			112 775			
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			187			0			7			180			
Tungsten	ths tonnes W	0			72			0			1			71			
Zinc	ths tonnes Zn	0			472			0			0			472			

Notes:

Bituminous coal	The calorific value of 24 % mined bituminous coal Qir is between 26 – 29 MJ/kg and ash content Ad between 9 – 16 %. Additional 31 % of mined coal has the calorific value Qir between 22 – 28 MJ/kg and ash content Ad between 14 – 27 % and 45 % of mined coal has the calorific value Qir between 17 - 21 MJ/kg and ash content Ad 34 – 43 %.
Brown coal	9 % of the mined brown coal has calorific value Qir 19 MJ/kg, ash content Ad 15 % and sulfur content Sd 1.5 %. 27 % of the mined coal has calorific value Qir between 12 – 15 MJ/kg, ash content Ad between 18 – 35 % and sulfur content Sd 0.6 – 1.1 %.
Lignite	Lignite was not mined in 2014.
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.