

## The Czech Republic mine production and mineral reserves – Overview in the year 2015

Mineral	Specifications	production				Reserves											
		2015	Category in Czech wording	Category in English wording	Reserves of the given category in 2015	Bilanční prozkoumané			Economic explored			Bilanční vyhledané			Economic prospected		
						Category in Czech wording	Category in English wording	Reserves of the given category in 2015	Category in Czech wording	Category in English wording	Reserves of the given category in 2015	Category in Czech wording	Category in English wording	Reserves of the given category in 2015	Category in Czech wording	Category in English wording	Reserves of the given category in 2015
<b>Energy minerals</b>																	
Bituminous coal	ths tonnes	7 640			16 302 646				1 470 464				5 993 037			8 839 345	41 844
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)	38 251			8 775 056				2 239 329				2 062 445			4 473 282	749 075
Crude oil	ths tonnes	126			28 651				21 100				1 733			5 816	1 379
Lignite	ths tonnes	0			997 223				619 652				229 932			147 645	1 903
Natural gas	mil m <sup>3</sup> = ths tonnes	200			30 950				7 494				2 998			20 458	5 057
Uranium	Concentrate production, tonnes U (corresponds to sales production (without beneficiation losses))	134			135 037				1 330				19 448			114 259	308
<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)	369			306 793				73 316				128 326			106 151	30 656
Clays	ths tonnes	569			921 734				175 768				398 218			347 752	43 485
Diatomite	ths tonnes	15			2 463				1 755				0			708	1 575
Dolomite	ths tonnes	451			525 936				84 426				348 288			93 222	11 320
Feldspar	ths tonnes	433			69 271				25 048				31 052			13 171	28 041
Feldspar substitutes	ths tonnes	21			199 838				0				199 838			0	24 268
Fluorspar	ths tonnes	0			2 033				0				0			2 033	0
Foundry sand	ths tonnes	535			407 488				126 901				133 360			147 227	77 303
Gemstones																	
Pyrope bearing rock	ths tonnes	17			19 408				3 225				13 002			3 181	3 960
Moldavite (tectite) bearing rock	ths m <sup>3</sup>	67			575				115				457			3	524 546
Glass sand	ths tonnes	812			253 186				83 170				25 077			144 939	76 914
Graphite	ths tonnes	0			13 112				2 981				4 346			5 785	50
Gypsum	ths tonnes	11			504 200				119 073				302 990			82 137	2 232
Kaolin	ths tonnes (total production of all technological grades)	3 454			1 180 891				225 756				499 669			455 466	98 842
Limestones and corrective additives for cement production	ths tonnes	10 568			4 757 736				1 983 957				1 894 356			879 423	1 514 091
Silica minerals	ths tonnes	14			25 651				763				20 266			4 622	497
<b>Construction minerals</b>																	
Brick clays and related minerals	Mine production in reserved deposits, ths m <sup>3</sup> (decrease of mineral reserves by mine production)	736			535 810				200 670				232 227			102 913	58 835
	Mine production in reserved deposits, ths tonnes (1 m <sup>3</sup> = 1.8 tonnes) (decrease of mineral reserves by mine production)	1 325			964 458				361 206				418 009			185 243	105 903
	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	165			689 863				63 633				519 377			106 853	6 702
	Mine production in non-reserved deposits, ths tonnes (1 m <sup>3</sup> = 1.8 tonnes) (estimate)	297			1 241 753				114 539				934 879			192 335	12 064
Crushed stone	Mine production in reserved deposits, ths m <sup>3</sup> (decrease of mineral reserves by mine production)	13 740			2 416 382				1 165 330				1 107 722			143 330	665 434
	Mine production in reserved deposits, ths tonnes (1 m <sup>3</sup> = 2.7 tonnes) (decrease of mineral reserves by mine production)	37 098			6 524 231				3 146 391				2 990 849			386 991	1 796 672
	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	1 171			1 127 955				494 118				550 693			83 144	52 897
Dimension stone	production in non-reserved deposits, ths tonnes (1 m <sup>3</sup> = 2.7 tonnes) (estimate)	2 651			3 045 478				1 334 119				1 486 871			224 489	142 822
	Mine production in reserved deposits, ths m <sup>3</sup> (decrease of mineral reserves by mine production)	187			181 702				77 584				65 233			38 885	90 148
	Mine production in reserved deposits, ths tonnes (1 m <sup>3</sup> = 2.7 tonnes) (decrease of mineral reserves by mine production)	505			490 595				209 477				176 129			104 990	243 400
	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	56			33 237				2 204				28 077			2 956	9 329
Sand and gravel	Mine production in non-reserved deposits, ths tonnes (1 m <sup>3</sup> = 2.7 tonnes) (estimate)	148			89 740				5 950				75 808			7 981	25 188
	Mine production in reserved deposits, ths m <sup>3</sup> (decrease of mineral reserves by mine production)	6 063			2 099 731				1 077 433				793 371			228 927	406 787
	Mine production in reserved deposits, ths tonnes (1 m <sup>3</sup> = 1.8 tonnes) (decrease of mineral reserves by mine production)	10 913			3 779 516				1 939 379				1 428 068			412 069	732 217
Sand and gravel	Mine production in non-reserved deposits, ths m <sup>3</sup> (estimate)	4 796			2 102 560				104 879				1 761 879			235 802	53 524
	Mine production in non-reserved deposits, ths tonnes (1 m <sup>3</sup> = 1.8 tonnes) (estimate)	8 633			3 784 608				188 782				3 171 382			424 444	96 343
<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				0				29			163	
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 15% mined bituminous coal Qir is between 21 – 24 MJ/kg and ash content Ad between 14 – 38%. Additional 42% of mined coal has the calorific value Qir between 25 – 27 MJ/kg and ash content Ad between 17 – 46% and 43% of mined coal has the calorific value Qir between 27 - 30 MJ/kg and ash content Ad 8 – 15%.
Brown coal	48% of the mined brown coal has calorific value Qir 10 - 11 MJ/kg, ash content Ad 40 - 43% and sulfur content Sd 1 - 3%. 18% of the mined coal has calorific value Qir between 13 – 14 MJ/kg, ash content Ad between 19 – 31% and sulfur content Sd 1 – 2%. Almost 34% of the mined brown coal has calorific value Qir 15 – 18 MJ/kg, ash content Ad 16 – 18% and sulfur content Sd 1 – 2%.
Lignite	Lignite was not mined in 2015.
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.