

The Czech Republic mine production and mineral reserves – Overview in the year 2012

Mineral	Specifications	production		R e s e r v e s																	
		2012	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								
					2012	Category in Czech wording			2012	Category in Czech wording			2012	Category in Czech wording							
Energy minerals																					
Bituminous coal	ths tonnes	10 796			16 327 182			1 496 792			5 998 902			8 831 488			168 538				
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)	43 710	Celkem	Total	8 936 157	Bilanciální prozkoumané	Economic explored	2 347 268	Bilanciální vyhledané	Economic prospected	2 063 444	Nebilanciální	Potentially economic	4 525 445	Vyřezitelné	Exploitable (recoverable)	862 202				
Crude oil	ths tonnes	150																30 781	20 108	4 092	6 581
Lignite	ths tonnes	0																997 229	619 652	229 932	147 645
Natural gas	mil m ³ = ths tonnes	204																30 506	7 243	2 791	20 472
Uranium	Concentrate production, tonnes U (corresponds to sales production (without beneficiation losses))	219																135 214	1 323	19 458	114 433
Industrial minerals																					
Barite	ths tonnes	0			569			0			0			569			0				
Bentonite	ths tonnes (including mining of montmorillonite clays overburden of kaolins since 2004)	221			302 946			73 832			126 365			102 749			29 438				
Clays	ths tonnes	484			920 624			175 184			399 478			345 962			43 680				
Diatomite	ths tonnes	43			2 573			1 859			0			714			1 673				
Dolomite	ths tonnes	440			527 219			85 709			348 288			93 222			12 615				
Feldspar	ths tonnes	445			70 191			26 574			29 621			13 996			24 444				
Feldspar substitutes	ths tonnes	15			199 891			0			199 891			0			24 321				
Fluorspar	ths tonnes	0			201 924			0			199 891			2 033			0				
Foundry sand	ths tonnes	491			409 079			128 442			133 448			147 189			78 535				
Gemstones	Pyrope bearing rock	ths tonnes	Celkem	Total	19 459	Bilanciální prozkoumané	Economic explored	3 276	Bilanciální vyhledané	Economic prospected	13 002	Nebilanciální	Potentially economic	3 181	Vyřezitelné	Exploitable (recoverable)	1 164				
Moldavite (tectite) bearing rock	ths m ³	41																692	155	534	3
Glass sand	ths tonnes	849			256 007			86 004			25 523			144 480			79 183				
Graphite	ths tonnes	0			14 159			1 321			4 041			8 797			50				
Gypsum	ths tonnes	14			504 240			119 113			302 990			82 137			2 272				
Kaolin	Raw, ths tonnes (total production of all technological grades)	3 318			1 194 922			228 510			506 058			460 354			101 277				
Limestones and corrective additives for cement production	ths tonnes	9 858			4 860 517			2 057 544			1 933 801			869 172			1 525 878				
Silica minerals	ths tonnes	17			26 149			907			20 490			4 752			498				
Construction minerals																					
Brick clays and related minerals	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	852			540 964			203 549			232 746			104 669			61 798				
	Mine production in reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	1 534			973 735			366 388			418 943			188 404			111 236				
	Mine production in non-reserved deposits, ths m ³ (estimate)	176			687 338			63 622			516 863			106 853			1 617				
Crushed stone	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	317			1 237 208			114 520			930 353			192 335			2 911				
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	10 950			2 391 958			1 155 910			1 091 875			144 173			715 299				
	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	29 565			6 458 287			3 120 957			2 948 063			389 267			1 931 307				
Dimension stone	Mine production in non-reserved deposits, ths m ³ (estimate)	1 100			1 025 454			42 617			899 288			83 549			43 500				
	production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	2 970			2 768 726			115 066			2 428 078			225 582			117 450				
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	138			182 393			77 395			65 408			39 590			79 153				
Sand and gravel	Mine production in reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (decrease of mineral reserves by mine production)	374			492 460			208 967			176 602			106 892			213 713				
	Mine production in non-reserved deposits, ths m ³ (estimate)	44			33 430			2 257			28 217			2 956			1 810				
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 2.7 tonnes) (estimate)	130			90 261			6 094			76 186			7 961			4 887				
	Mine production in reserved deposits, ths m ³ (decrease of mineral reserves by mine production)	6 136			2 120 076			1 114 756			785 479			219 841			379 201				
Metallic ores (not mined in the Czech Republic)	Mine production in reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (decrease of mineral reserves by mine production)	11 045			3 816 137			2 006 561			1 413 862			395 714			682 562				
	Mine production in non-reserved deposits, ths m ³ (estimate)	4 300			2 079 394			107 478			1 733 518			238 398			52 100				
	Mine production in non-reserved deposits, ths tonnes (1m ³ = 1.8 tonnes) (estimate)	7 740			3 742 909			193 460			3 120 332			429 116			93 780				
Metallic ores (not mined in the Czech Republic)																					
Copper	ths tonnes Cu	0			49			0			0			49			0				
Gold	ths tonnes Au	0			240			49			29			162			0				
Lead	ths tonnes Pb	0			152			0			0			152			0				
Lithium	ths tonnes Li	0			112 775			0			0			112 775			0				
Manganese	ths tonnes ore	0			138 801			0			0			138 801			0				
Silver	ths tonnes Ag	0			532			0			0			532			0				
Tin	ths tonnes Sn	0			164			0			0			164			0				
Tungsten	ths tonnes W	0			70			0			0			70			0				
Zinc	ths tonnes Zn	0			472			0			0			472			0				

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 2012.
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.