


Production and Utilisation of CCPs in 2008 in Europe (EU 15) [kilo tonnes (metric)]

		Fly Ash	Bottom Ash	Boiler Slag	FBC-Ash	Other ¹⁾	SDA-Product	FGD-Gypsum				
		1	2	3	4	5	6	7				
CCP Production		37.476	4.850	1.356	1.025	121	343	11.249				
Subtotal 1 - 5		44.828										
Subtotal 6 - 7								11.592				
Total 1 - 7									56.420			
CCP Utilisation										Total	%	
Cement raw material	1	3.863	311						Cement raw material	4.174	7,3	
Blended cement	2	2.460	64			5			Blended cement	2.529	4,4	
Concrete addition	3	5.760	65	130					Concrete addition	5.955	10,4	
Aerated concrete blocks	4	663	9						Aerated concrete blocks	672	1,2	
Non-aerated concrete blocks	5	311	886			49			Non-aerated concrete blocks	1.246	2,2	
Lightweight aggregate	6								Lightweight aggregate			
Bricks + ceramics	7	93	19			57			Bricks + ceramics	169	0,3	
Grouting	8	346	15	67					Grouting	428	0,7	
Asphalt filler	9	95							Asphalt filler	95	0,2	
Subgrade stabilisation	10	128	161		10				Subgrade stabilisation	299	0,5	
Pavement base course	11	3	122	412					Pavement base course	537	0,9	
General engineering fill	12	1.556	516		91				General engineering fill	2.163	3,8	
Structural fill	13	1.841	182		19		133		Structural fill	2.175	3,8	
Soil amendment	14	40					2		Soil amendment	42	0,1	
Infill	15	446				16	48		Infill	510	0,9	
Blasting grit	16			603					Blasting grit	603	1,1	
Plant nutrition	17						8		Plant nutrition	8	0,0	
Set retarder for cement	18							638	Set retarder for cement	638	1,1	
Projection plaster	19							817	Projection plaster	817	1,4	
Plaster boards	20							5.577	Plaster boards	5.577	9,8	
Gypsum blocks	21							303	Gypsum blocks	303	0,5	
Self levelling floor screeds	22							1.533	Self levelling floor screeds	1.533	2,7	
Other uses	23	87	68	144	32	2	44	8	Other uses	385	0,7	
Reclamation, Restoration	24	17.079	1.901		672	0	56	1.144	Reclamation, Restoration	20.852	36,5	
Temporary stockpile	25	829	216	0	0	0	0	321	Temporary stockpile	1.366	2,4	
Disposal	26	2.231	459	0	180	13	52	1.136	Disposal	4.071	7,1	
Total utilisation 1 - 23	27	17.692	2.418	1.356	173	108	235	8.876	Total utilisation 1 - 23	30.858	54,0	
Utilisation rate in %	28	47	48	100	17	89	69	77	Utilisation rate in %			
Average utilisation rate in %	29										54	Average utilisation rate in %
Total utilisation 1 - 24	30	34.771	4.319	1.356	845	108	291	10.020	Total utilisation 1 - 24	51.710	90,5	
Utilisation rate in %	31	92	86	100	82	89	85	87	Utilisation rate in %			
Average utilisation rate in %	32										90	Average utilisation rate in %
Reuse of stockpiled CCPs	33	355	144	0	0	0	0	228	Reuse of stockpiled CCPs	727	1,3	
Total production 1-26 incl. reuse	34	37.831	4.994	1.356	1.025	121	343	11.477	Total production 1-26 incl. reuse	57.147	100,0	

¹⁾ cenospheres, sludges, fly ash and slag from coal gasification