


Production and Utilization of CCPs in 2003 in Europe (EU 15) [in kilo tonnes (metric)]

		Fly Ash	Bottom Ash	Boiler Slag	FBC-Ash	Other	SDA-Product	FGD-Gypsum				
		1	2	3	4	5	6	7				
CCP Production		44.217	6.045	2.110	1.089	76	490	11.276				
Subtotal 1 - 5		53.537										
Subtotal 6 - 7							11.766					
Total 1 - 7							65.303					
CCP Utilization										Total	%	
Cement raw material	1	5.460	151						Cement raw material	5.611	8,5	
Blended cement	2	2.377	125						Blended cement	2.502	3,8	
Concrete addition	3	5.872	98	161					Concrete addition	6.131	9,3	
Aerated concrete blocks	4	845	16						Aerated concrete blocks	861	1,3	
Non-aerated concrete blocks	5	380	1.264			5			Non-aerated concrete blocks	1.649	2,5	
Lightweight aggregate	6	93	0						Lightweight aggregate	93	0,1	
Bricks + ceramics	7	133	23			16			Bricks + ceramics	172	0,3	
Grouting	8	481		126	84				Grouting	691	1,0	
Asphalt filler	9	158							Asphalt filler	158	0,2	
Subgrade stabilisation	10	184	98		1				Subgrade stabilisation	283	0,4	
Pavement base course	11	387	258	998	72				Pavement base course	1.715	2,6	
General engineering fill	12	1.777	377		0	35	17		General engineering fill	2.206	3,3	
Structural fill	13	1.911	145		63				Structural fill	2.119	3,2	
Soil amendment	14	37	1		22				Soil amendment	60	0,1	
Infill	15	689	94		288		15		Infill	1.086	1,6	
Blasting grit	16	0		660					Blasting grit	660	1,0	
Plant nutrition	17	3					22		Plant nutrition	25	0,0	
Set retarder for cement	18							642	Set retarder for cement	642	1,0	
Projection plaster	19							760	Projection plaster	760	1,2	
Plaster boards	20							4.897	Plaster boards	4.897	7,4	
Gypsum blocks	21							261	Gypsum blocks	261	0,4	
Self levelling floor screeds	22							1.401	Self levelling floor screeds	1.401	2,1	
Other uses	23	329	6	165	27	9	41	5	Other uses	582	0,9	
Reclamation, Restoration	24	18.964	2.686	0	178		180	1.645	Reclamation, Restoration	23.653	35,9	
Temporary stockpile	25	3.507	128	0	40			1.581	Temporary stockpile	5.256	8,0	
Disposal	26	1.207	613	0	314	11	215	84	Disposal	2.444	3,7	
Total utilization 1 - 23	27	21.116	2.656	2.110	557	65	95	7.966	Total utilization 1 - 23	34.565	52,4	
Utilization rate in %	28	47	44	100	51	86	19	71	Utilization rate in %			
Average utilization rate in %	29								52	Average utilization rate in %		
Total utilization 1 - 24	30	40.080	5.342	2.110	735	65	275	9.611	Total utilization 1 - 24	58.218	88,3	
Utilization rate in %	31	89	88	100	67	86	56	85	Utilization rate in %			
Average utilization rate in %	32								89	Average utilization rate in %		
Reuse of stockpiled CCPs	33	577	38	0	0	0	0	0	Reuse of stockpiled CCPs	615	0,9	
Total production 1 - 26	34	44.794	6.083	2.110	1.089	76	490	11.276	Total production 1 - 26	65.918	100,0	

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