


Production and Utilisation of CCPs in 2004 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		43.476	5.840	1.950	983	59	421	11.078						
Subtotal 1 - 5		52.308												
Subtotal 6 - 7									11.499					
Total 1 - 7									63.807					
CCP Utilisation										Total	%			
Cement raw material	1	5.675	192						Cement raw material	5.867	9,1			
Blended cement	2	2.480	118			22			Blended cement	2.620	4,0			
Concrete addition	3	5.871	77	177					Concrete addition	6.125	9,5			
Aerated concrete blocks	4	929	28						Aerated concrete blocks	957	1,5			
Non-aerated concrete blocks	5	627	919					25	Non-aerated concrete blocks	1.571	2,4			
Lightweight aggregate	6	141	0						Lightweight aggregate	141	0,2			
Bricks + ceramics	7	97	21					13	Bricks + ceramics	131	0,2			
Grouting	8	594		109	111				Grouting	814	1,3			
Asphalt filler	9	131							Asphalt filler	131	0,2			
Subgrade stabilisation	10	162	96			37			Subgrade stabilisation	295	0,5			
Pavement base course	11	348	182	1.013	46				Pavement base course	1.589	2,5			
General engineering fill	12	1.729	362					11	General engineering fill	2.158	3,3			
Structural fill	13	1.972	132						Structural fill	2.104	3,3			
Soil amendment	14	16	20						Soil amendment	36	0,1			
Infill	15	891	60			297			Infill	1.289	2,0			
Blasting grit	16		12	356					Blasting grit	368	0,6			
Plant nutrition	17	6							Plant nutrition	39	0,1			
Set retarder for cement	18								585	585	0,9			
Projection plaster	19								702	702	1,1			
Plaster boards	20								4.581	4.581	7,1			
Gypsum blocks	21								241	241	0,4			
Self levelling floor screeds	22								1.305	1.305	2,0			
Other uses	23	347	76	295	20				42	1	781	1,2		
Reclamation, Restoration	24	18.411	2.862	0	306				165	1.931	23.675	36,6		
Temporary stockpile	25	3.158	199	0	145	15				1.707	5.224	8,1		
Disposal	26	665	577	0	40				84	25	1.391	2,1		
Total utilisation 1 - 23	27	22.016	2.295	1.950	533	49	172	7.415	Total utilisation 1 - 23	34.430	53,2			
Utilisation rate in %	28	50	39	100	52	77	41	67	Utilisation rate in %					
Average utilisation rate in %	29								53	Average utilisation rate in %				
Total utilisation 1 - 24	30	40.427	5.157	1.950	839	49	337	9.346	Total utilisation 1 - 24	58.105	89,8			
Utilisation rate in %	31	91	87	100	82	77	80	84	Utilisation rate in %					
Average utilisation rate in %	32								90	Average utilisation rate in %				
Reuse of stockpiled CCPs	33	774	93	0	41	5	0	0	Reuse of stockpiled CCPs	913	1,4			
Total production 1-26 incl. reuse	34	44.250	5.933	1.950	1.024	64	421	11.078	Total production 1-26 incl. reuse	64.720	100,0			

¹⁾ fly ash and slag from coal gasification

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