

Production and Utilisation of CCPs in 2016 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		25.741	3.618	490	568	1	384	9.531				
Subtotal 1 - 5		30.418										
Subtotal 6 - 7								9.915				
Total 1 - 7		40.333										
CCP Utilisation									Total	%		
Cement raw material	1	1.881	186			9			Cement raw material	2.076	5,0	
Blended cement	2	1.936	0			0			Blended cement	1.936	4,7	
Concrete addition	3	4.638	1	13					Concrete addition	4.652	11,2	
Aerated concrete blocks	4	433	8						Aerated concrete blocks	441	1,1	
Non-aerated concrete blocks	5	195	649						Non-aerated concrete blocks	844	2,0	
Lightweight aggregate	6								Lightweight aggregate			
Bricks + ceramics	7	63	22						Bricks + ceramics	85	0,2	
Grouting	8	229				0			Grouting	229	0,6	
Asphalt filler	9	22							Asphalt filler	22	0,1	
Subgrade stabilisation	10	71	18			0			Subgrade stabilisation	89	0,2	
Pavement base course	11		80	60					Pavement base course	140	0,3	
General engineering fill	12	928	322		173		29		General engineering fill	1.452	3,5	
Structural fill	13	569	89				15		Structural fill	673	1,6	
Soil amendment	14	43							Soil amendment	43	0,1	
Infill	15	167				67	121		Infill	355	0,9	
Blasting grit	16			417					Blasting grit	417	1,0	
Plant nutrition	17						0		Plant nutrition	0	0,0	
Set retarder for cement	18							536	Set retarder for cement	536	1,3	
Projection plaster	19							749	Projection plaster	749	1,8	
Plaster boards	20							4.173	Plaster boards	4.173	10,0	
Gypsum blocks	21							287	Gypsum blocks	287	0,7	
Self levelling floor screeds	22							1.356	Self levelling floor screeds	1.356	3,3	
Other uses	23	187	0	0	6	1	17	23	Other uses	234	0,6	
Reclamation, Restoration	24	13.854	1.968		213		127	1.077	Reclamation, Restoration	17.239	41,5	
Temporary stockpile	25	263	60	0	0		0	407	Temporary stockpile	730	1,8	
Disposal	26	1.359	280	29	100		75	935	Disposal	2.778	6,7	
Total utilisation 1 - 23	27	11.362	1.375	490	255	1	182	7.124	Total utilisation 1 - 23	20.789	50,1	
Utilisation rate in %	28	42	37	94	45	100	47	75	Utilisation rate in %			
Average utilisation rate in %	29								50	Average utilisation rate in %		
Total utilisation 1 - 24	30	25.216	3.343	490	468	1	309	8.201	Total utilisation 1 - 24	38.028	91,6	
Utilisation rate in %	31	94	91	94	82	100	80	86	Utilisation rate in %			
Average utilisation rate in %	32								92	Average utilisation rate in %		
Reuse of stockpiled CCPs	33	1.097	65	29	0	0	0	12	Reuse of stockpiled CCPs	1.203	2,9	
Total production 1-26 incl. reuse	34	26.838	3.683	519	568	1	384	9.543	Total production 1-26 incl. reuse	41.536	100,0	



¹⁾ cenospheres, sludges