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2023 Coal Combustion Product (CCP) Production & Use Survey Report

Beneficial Utilization versus Production Totals (Short Tons)									
2023 CCP Categories	Fly Ash	Bottom Ash	Boiler Slag	FGD Gypsum	FGD Material Wet Scrubbers	FGD Material Dry Scrubbers	FGD Other	FBC Ash	CCP Production / Utilization Totals
Total CCPs Produced by Category	21,423,716	5,676,177	3,322,110	17,424,765	5,392,015	3,296,140	0	10,176,388	66,711,312
Total CCPs Used by Category	15,994,917	3,471,766	384,810	17,144,903	6,360	44,416	0	9,272,650	46,319,822
1. Concrete/Concrete Products /Grout	11,868,495	403,598	0	1,216,081	0	0	0	0	13,488,173
2. Blended Cement/ Feed for Clinker	3,304,658	1,324,489	123,110	2,034,977	0	0	0	0	6,787,233
3. Flowable Fill	343	0	0	0	0	0	0	0	343
4. Structural Fills/Embankments	0	44,950	0	0	0	0	0	0	44,950
5. Road Base/Sub-base	26,578	108,921	0	0	0	0	0	0	135,498
6. Soil Modification/Stabilization	275,732	0	0	11,067	0	0	0	0	286,800
7. Mineral Filler in Asphalt	1,137	0	0	0	0	0	0	2,846	3,983
8. Snow and Ice Control	0	36,789	2,587	0	0	0	0	0	39,377
9. Blasting Grit/Roofing Granules	0	30,949	259,113	0	0	0	0	0	290,062
10. Mining Applications	0	0	0	0	0	0	0	9,269,804	9,269,804
11. Gypsum Panel Products (formerly Wallboard)	0	0	0	13,061,563	0	0	0	0	13,061,563
12. Waste Stabilization/Solidification	363,046	0	0	0	6,360	0	0	0	369,406
13. Agriculture	0	0	0	733,938	0	0	0	0	733,938
14. Aggregate	0	0	0	62	0	0	0	0	62
15. Oil/Gas Field Services	115,067	0	0	0	0	44,416	0	0	159,483
16. CCR Pond Closure Activities	0	1,522,071	0	0	0	0	0	0	1,522,071
17. Miscellaneous/Other	39,862	0	0	87,216	0	0	0	0	127,078
Summary Utilization to Production Rate									
CCP Categories	Fly Ash	Bottom Ash	Boiler Slag	FGD Gypsum	FGD Material Wet Scrubbers	FGD Material Dry Scrubbers	FGD Other	FBC Ash	CCP Utilization Total
Totals by CCP Type/Application	15,994,917	3,471,766	384,810	17,144,903	6,360	44,416	0	9,272,650	46,319,822
Category Use to Production Rate (%)	74.66%	61.16%	11.58%	98.39%	0.12%	1.35%	0.00%	91.12%	69.43%
2023 Cenospheres Sold (Pounds)	0	Data in this survey represents 75.272 GWs of Name Plate rating of the total industry wide approximate 182.5908 GW capacity based on EIA's May 2024 Electric Power Monthly.							
CCPs Imported in 2023 (Short Tons)	0								
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Notes:

These are estimates for entire U.S. utility and IPP sectors calculated by dividing the survey respondents' data by the portion of the overall industry's coal burn they represent, as reported in the July 2024 EIA Electric Power Monthly (30%).