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## 2014 Coal Combustion Product (CCP) Production & Use Survey Report

### Beneficial Utilization versus Production Totals (Short Tons)

2014 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	50,422,238	12,478,705	2,694,056	34,123,820	12,596,231	1,255,775	344,551	15,768,766	129,684,142
Total CCPs Used by Category	23,181,723	6,063,028	1,706,621	16,750,990	1,163,434	275,999	0	13,285,766	62,427,561
1. Concrete/Concrete Products /Grout	13,126,930	609,558	0	423,613	0	0	0	0	14,160,100
2. Blended Cement/ Feed for Clinker	3,391,272	1,197,398	0	1,308,208	120,509	0	0	0	6,017,388
3. Flowable Fill	84,734	2,672	0	0	0	0	0	0	87,406
4. Structural Fills/Embankments	2,805,515	1,928,492	51,659	1,586,234	311,183	0	0	0	6,683,084
5. Road Base/Sub-base	365,868	306,936	12,992	0	0	0	0	0	685,796
6. Soil Modification/Stabilization	176,112	720,791	0	0	0	0	0	0	896,903
7. Mineral Filler in Asphalt	68,707	0	9,758	5,197	0	0	0	0	83,662
8. Snow and Ice Control	0	736,397	101,359	0	0	0	0	0	837,756
9. Blasting Grit/Roofing Granules	0	127,114	1,530,853	0	0	0	0	0	1,657,968
10. Mining Applications	1,392,935	41,330	0	813,419	578,244	229,766	0	13,151,161	16,206,855
11. Gypsum Panel Products	0	0	0	11,221,836	0	0	0	0	11,221,836
12. Waste Stabilization/Solidification	279,323	475	0	16,390	0	0	0	134,605	430,794
13. Agriculture	62	10	0	1,332,708	0	0	0	0	1,332,781
14. Aggregate	0	181,107	0	0	0	0	0	0	181,107
15. Oil/Gas Field Services	512,100	4,708	0	0	0	46,233	0	0	563,041
16. Miscellaneous/Other	978,165	206,039	0	43,384	153,498	0	0	0	1,381,086

### 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	23,181,723	6,063,028	1,706,621	16,750,990	1,163,434	275,999	0	13,285,766	62,427,561
Category Use to Production Rate (%)	46%	49%	63%	49%	9%	22%	0%	84%	48%
2014 Cenospheres Sold (Pounds)	4,862,361	Data in this survey represents 189 GWs of Name Plate rating of the total industry wide approximate 302 GW capacity based on EIA's July 2015 Electric Power Monthly.							

#### 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 industries coal burn they represent, as reported in the July 2015 EIA Electric Power Monthly (58%).