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2013 Coal Combustion Product (CCP) Production & Use Survey Report

Beneficial Utilization versus Production Totals (Short Tons)									
2013 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	53,400,000	14,450,000	1,355,939	24,400,000	8,514,789	687,706	1,557,431	10,326,745	114,692,610
Total CCPs Used by Category	23,321,230	5,640,693	909,066	11,921,154	830,872	182,120	0	8,794,240	51,599,375
1. Concrete/Concrete Products /Grout	12,356,726	494,074	0	263,742	0	5,710	0	0	13,120,252
2. Blended Cement/ Feed for Clinker	2,286,144	1,324,131	0	1,080,832	83,817	0	0	0	4,774,924
3. Flowable Fill	41,841	2,301	0	0	0	0	0	0	44,142
4. Structural Fills/Embankments	3,005,136	1,912,283	0	966,334	268,816	0	0	0	6,152,569
5. Road Base/Sub-base	136,318	228,517	0	0	0	2,026	0	0	366,861
6. Soil Modification/Stabilization	268,462	457,070	1,000	3,827	0	102	0	92,556	823,017
7. Snow and Ice Control	0	421,087	11,797	0	0	0	0	0	432,884
8. Blasting Grit/Roofing Granules	4,150	17,672	884,861	0	0	0	0	0	906,683
9. Mining Applications	1,843,292	250,113	0	1,562,373	478,239	139,244	0	8,403,003	12,676,264
10. Gypsum Panel Products	0	0	0	7,446,839	0	0	0	0	7,446,839
11. Waste Stabilization/Solidification	2,034,182	59,751	727	0	0	3,948	0	88,318	2,186,926
12. Agriculture	15,644	217	0	582,244	0	0	0	0	598,105
13. Aggregate	3,976	293,932	10,681	0	0	5,136	0	210,363	524,088
14. Oil Field Services	313,373	73,883	0	0	0	25,954	0	0	413,210
15. Miscellaneous/Other	1,011,986	105,662	0	14,963	0	0	0	0	1,132,611
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	23,321,230	5,640,693	909,066	11,921,154	830,872	182,120	0	8,794,240	51,599,375
Category Use to Production Rate (%)***	43.67%	39.02%	66.16%	48.85%	9.97%	27.51%	0.00%	83.12%	44.79%
2013 Cenospheres Sold (Pounds)	16,167,431	Data in this survey represents 241,053 MWs Name Plate rating of the total industry wide approximate 331,091 MW capacity based on EIA data							

The data received this year represents approximately 60.3 % of the coal consumed in 2013 by electric utilities and IPPs (516,170,379 tons)

* These are actual tonnages reported by utilities responding and do not reflect estimates for utilities that did not respond this year.

**These numbers are derived from previous, current and applicable industry-wide available data, including Energy Information Administration (EIA) Reports 923 and 860 and other outside sources.

***Utilization estimates are based on actual tons reported and on extrapolated estimates and other sources only for fly ash, bottom ash, and FGD gypsum;