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2016 Coal Combustion Product (CCP) Production & Use Survey Report

Beneficial Utilization versus Production Totals (Short Tons)									
2016 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	37,817,327	10,135,360	2,188,298	32,006,516	9,556,694	1,448,752	7,508	14,267,412	107,427,866
Total CCPs Used by Category	22,634,497	3,775,480	1,310,959	18,372,663	896,141	310,607	0	12,869,437	60,169,785
1. Concrete/Concrete Products /Grout	14,362,891	504,416	0	468,748	0	0	0	0	15,336,056
2. Blended Cement/ Feed for Clinker	2,680,712	1,015,756	34,867	1,009,259	0	51,704	0	0	4,792,299
3. Flowable Fill	83,947	0	0	0	0	0	0	0	83,947
4. Structural Fills/Embankments	1,696,296	745,213	0	1,490,267	896,141	0	0	0	4,827,917
5. Road Base/Sub-base	472,609	245,569	0	0	0	0	0	0	718,178
6. Soil Modification/Stabilization	433,189	42,884	0	1,495	0	0	0	0	477,568
7. Mineral Filler in Asphalt	40,969	0	10,592	0	0	8,912	0	0	60,472
8. Snow and Ice Control	0	343,237	12,364	0	0	0	0	0	355,601
9. Blasting Grit/Roofing Granules	0	18,042	1,253,136	0	0	0	0	0	1,271,178
10. Mining Applications	1,043,002	211,670	0	794,133	0	131,738	0	12,729,673	14,910,215
11. Gypsum Panel Products (formerly Wallboard)	0	0	0	9,919,177	0	0	0	0	9,919,177
12. Waste Stabilization/Solidification	767,895	318,516	0	3,632,056	0	109,244	0	139,765	4,967,476
13. Agriculture	2,679	3,789	0	770,573	0	1,106	0	0	778,147
14. Aggregate	0	206,100	0	0	0	0	0	0	206,100
15. Oil/Gas Field Services	190,247	0	0	0	0	7,904	0	0	198,150
16. CCR Pond Closure Activities	254,521	3,142	0	177,013	0	0	0	0	434,675
17. Miscellaneous/Other	605,541	117,148	0	109,941	0	0	0	0	832,630
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	22,634,497	3,775,480	1,310,959	18,372,663	896,141	310,607	0	12,869,437	60,169,785
Category Use to Production Rate (%)	59.85%	37.25%	59.91%	57.40%	9.38%	21.44%	0.00%	90.20%	56.01%
2016 Cenospheres Sold (Pounds)	0	Data in this survey represents 194,31892 GW's of Name Plate rating of the total industry wide approximate 272 GW capacity based on EIA's July 2011 Electric Power Monthly.							
CCPs Imported in 2016 (Short Tons)	0								
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