



2008 Coal Combustion Product (CCP) Production & Use Survey Report

Beneficial Utilization versus Production Totals (Short Tons)									
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*
2008 Total CCPs Produced by Category**	72,454,230	18,431,297	2,028,455	17,754,939	12,980,588	1,399,258	1,537,283	9,487,057	136,073,107
2008 Total CCPs Used by Category	30,142,274	8,076,255	1,689,892	10,653,344	685,104	345,335	136,766	8,864,690	60,593,660
Application Utilization Breakout									
1. Concrete/Concrete Products /Grout	12,592,245	720,948	0	675,505	0	22,577	0	4,341	14,015,616
2. Blended Cement/ Raw Feed for Clinker	3,174,264	610,194	0	413,740	0	0	0	0	4,198,198
3. Flowable Fill	74,794	0	0	0	0	18,338	0	0	93,132
4. Structural Fills/Embankments	8,012,825	2,996,388	178,363	0	0	130,566	106,526	76,579	11,501,247
5. Road Base/Sub-base	1,027,568	767,013	0	0	0	0	0	7,444	1,802,025
6. Soil Modification/Stabilization	627,810	431,664	0	0	0	60,115	0	132,379	1,251,968
7. Mineral Filler in Asphalt	7,781	257,806	0	0	0	0	0	0	265,587
8. Snow and Ice Control	0	699,561	1,352	0	0	0	0	0	700,913
9. Blasting Grit/Roofing Granules	84,881	66,670	1,486,316	0	0	0	0	0	1,637,867
10. Mining Applications	960,911	63,648	3,021	0	685,104	109,641	0	8,643,947	10,466,272
11. Gypsum Panel Products	0	0	0	8,533,732	0	0	0	0	8,533,732
12. Waste Stabilization/Solidification	2,923,592	84,901	0	744,592	0	1,221	30,240	0	3,784,546
13. Agriculture	35,340	3,771	0	278,875	0	2,877	0	0	320,863
14. Aggregate	154,992	727,048	19,422	0	0	0	0	0	901,462
15. Miscellaneous/Other	465,271	646,643	1,418	6,900	0	0	0	0	1,120,232
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**
2008 Totals by CCP Type/Application	30,142,274	8,076,255	1,689,892	10,653,344	685,104	345,335	136,766	8,864,690	60,593,660
Category Use to Production Rate (%)***	41.60%	43.82%	83.31%	60.00%	5.28%	24.68%	8.90%	93.44%	44.53%
Supplemental:									
2008 Cenospheres Sold (Pounds)	10,975,008								

*Please note a format change to the 2008 survey form: ARIPPA numbers have been folded into the overall FBC Ash totals.

Note: ACAA received 2008 survey data representing:

- 107 of a total industry-wide 266 coal-fired electric utilities (i.e., 40%)
- 274 of a total industry-wide 509 coal-fired electric utility generating stations (i.e., 54%)
- 223,022 MegaWatts Name Plate capacity of the total industry-wide 328,493 MegaWatts Name Plate capacity (i.e., 68%)

**All numbers represented in this survey report are derived from previous, current and applicable industry-wide available data, to include Energy Information Administration Reports 923 and 860.

***IMPORTANT: The total utilization to production percentage shown for 2008 has been modified as of a result of detected under reporting in 2007. 2007 should have been indicated as 44.81% as opposed to 42.74%