ACAA
38800 Country Club Drive
Farmington Hills, MI 48331

Phone: 720-870-7897
Fax: 720-870-7889
Internet: www.ACAA-USA.org
Email: info@acaa-usa.org

2011 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
2011 Total CCPs Produced by Category	**59,900,000**	**16,500,000**	**2,002,764**	**25,000,000**	**11,104,710**	**2,180,474**	**143,204**	**13,246,123**	130,077,275
2011 Total CCPs Used by Category	**22,975,450**	**6,082,407**	**1,374,716**	**11,807,770**	**1,351,560**	**571,381**	**2,475**	**12,406,559**	**56,572,318**
1. Concrete/Concrete Products /Grout	11,755,433	325,618	0	197,221	0	4,446	0	0	12,282,718
2. Blended Cement/ Raw Feed for Clinker	2,030,367	1,145,008	0	1,032,935	699	0	0	0	4,209,009
3. Flowable Fill	137,406	52,606	0	0	0	16,208	0	4,068	210,288
4. Structural Fills/Embankments	3,262,707	2,412,580	2,352	1,161,720	883,581	56,848	0	103,733	7,883,521
5. Road Base/Sub-base	114,989	480,787	1,300	0	0	2,310	0	554,289	1,153,675
6. Soil Modification/Stabilization	567,476	204,070	0	0	0	218,669	0	122,223	1,112,438
7. Snow and Ice Control	0	439,175	25,269	0	0	0	0	0	464,444
8. Blasting Grit/Roofing Granules	31,456	19,623	1,339,378	0	0	0	0	0	1,390,457
9. Mining Applications	2,594,295	248,819	0	1,049,011	467,280	149,099	0	11,388,585	15,897,089
10. Gypsum Panel Products	0	0	0	7,104,359	0	6,562	0	0	7,110,921
11. Waste Stabilization/Solidification	1,799,964	0	0	627,486	0	88,388	2,475	233,661	2,751,974
12. Agriculture	13,627	51	0	594,086	0	0	0	0	607,764
13. Aggregate	4,720	613,669	6,417	0	0	4,601	0	0	629,407
14. Miscellaneous/Other	663,010	140,401	0	40,952	0	24,250	0	0	868,613

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**
2011 Totals by CCP Type/Application	22,975,450	6,082,407	1,374,716	11,807,770	1,351,560	571,381	2,475	12,406,559	**56,572,318**
Category Use to Production Rate (%)***	38.36%	36.87%	68.65%	47.24%	12.18%	26.21%	1.73%	93.67%	**43.50%**
2011 Cenospheres Sold (Pounds)	**29,464,750**								

ACAA received survey data representing 232,437 Megawatts Name Plate capacity of the total industry-wide approximate 331,091 MW capacity based on EIA data

The data received this year represents approximately 76.2 % of the coal consumed in 2011 by electric utilities and IPPs (704,495,850 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 for fly ash, bottom ash, and FGD gypsum**;