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## 2003 Coal Combustion Product (CCP) Production and Use Survey

CCP Categories	Fly Ash	Bottom Ash	FGD Gypsum	FGD Material Wet Scrubbers	Boiler Slag*	FGD Material Dry Scrubbers*	FGD Other*	FBC Ash*
<b>CCP Production Category Totals**</b>	70,150,000	18,100,000	11,900,000	17,350,000	1,836,235	1,444,273	167,345	796,718
<b>CCP Production Total</b>	<b>121,744,571</b>							
<b>CCP Used Category Totals***</b>	27,136,524	8,247,273	8,299,060	484,412	1,756,004	197,509	0	263,623
<b>All CCP Used Total</b>	<b>46,384,405</b>							
CCP Use By Application****	Fly Ash	Bottom Ash	FGD Gypsum	FGD Material Wet Scrubbers	Boiler Slag	FGD Material Dry Scrubbers	FGD Other	FBC Ash
1. Concrete/Concrete Products /Grout	12,265,169	298,181	65,593	0	15,907	34,284	0	0
2. Cement/ Raw Feed for Clinker	3,024,930	493,765	420,043	0	15,766	2,469	0	0
3. Flowable Fill	136,618	20,327	0	0	0	9,184	0	0
4. Structural Fills/Embankments	5,496,948	2,443,206	0	224,100	11,074	12,141	0	0
5. Road Base/Sub-base/Pavement	493,487	1,138,101	0	0	29,800	0	0	0
6. Soil Modification/Stabilization	515,552	67,998	0	704	0	114	0	188,708
7. Mineral Filler in Asphalt	52,608	0	0	0	31,402	0	0	0
8. Snow and Ice Control	1,928	683,556	0	0	102,700	0	0	0
9. Blasting Grit/Roofing Granules	0	42,604	0	0	1,455,140	0	0	0
10. Mining Applications	683,925	1,184,927	0	259,608	59,800	130,723	0	11,049
11. Wallboard	0	0	7,780,906	0	0	0	0	0
12. Waste Stabilization/Solidification	3,919,898	30,508	0	0	0	0	0	49,217
13. Agriculture	12,140	3,534	32,518	0	0	2,295	0	0
14. Aggregate	137,171	512,769	0	0	31,600	6,299	0	0
15. Miscellaneous/Other	396,150	1,327,797	0	0	2,815	0	0	14,649
<b>CCP Category Use Totals</b>	<b>27,136,524</b>	<b>8,247,273</b>	<b>8,299,060</b>	<b>484,412</b>	<b>1,756,004</b>	<b>197,509</b>	<b>0</b>	<b>263,623</b>
<b>Application Use To Production Rate</b>	<b>38.68%</b>	<b>45.57%</b>	<b>69.74%</b>	<b>2.79%</b>	<b>95.63%</b>	<b>13.68%</b>	<b>0.00%</b>	<b>33.09%</b>
<b>Overall CCP Utilization Rate</b>	<b>38.10%</b>							

\* As submitted based on 60 percent coal burn.

\*\* CCP Production totals for Fly Ash, Bottom Ash, FGD Gypsum, and Wet FGD are extrapolated estimates rounded off to nearest 50,000 tons.

\*\*\* CCP Used totals for Fly Ash, Bottom Ash, FGD Gypsum, and Wet FGD are per extrapolation calculations (not rounded off).

\*\*\*\* CCP Uses by application for Fly Ash, Bottom Ash, FGD Gypsum, and Wet FGD are calculated per proportioning the CCP Used Category Totals by the same percentage as each of the individual application types' raw data contributions to the as-submitted raw data submittal total (not rounded off).