

**ATMOSPHERIC FLUIDIZED BED  
COMBUSTION (AFBC)  
BENCHMARKS: YEAR 2003  
ANALYSIS**

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For the  
CIBO Owner's Forum**

# Survey Responders

- There are a total of 33 plants included in the survey.
- There were 10 plants in the 1 – 39 MW (or 1 – 319 KPPH) range. Of this number, 6 used coal, 2 used gob, and 2 used wood or biomass as their primary fuel source.
- There were 14 plants in the 40 – 99 MW (or 320 – 809 KPPH) range. Of this number, 7 used coal, 4 used culm, 2 used gob, and 1 used wood as their primary fuel source.
- There were 9 plants 100 MW (or 810 KPPH) or larger in size. Of this number, 7 used coal, 1 used gob, and 1 used pet. coke as their primary fuel source.
- Of the 33 plants included in the survey, 12 used a secondary fuel source. Of these 12 plants, 1 used coal, 5 used pet. coke, 1 used wood, 1 used tires (TDF), 1 used sludge, 2 used fuel oil, and 1 used an unknown fuel as a secondary fuel source.

# Survey Responders

- There were a total of 53 FBC boilers included in the survey. Of this number, 47 were CFB and 6 were BFB.
- There were 22 boilers in the 1 – 39 MW (or 1 – 319 KPPH) size range. Of this number, 15 used coal, 2 used gob, and 5 used wood or biomass as their primary fuel source.
- There were 23 boilers in the 40 – 99 MW (or 320 – 809 KPPH) size range. Of this number, 14 used coal, 6 used culm, and 3 used gob as their primary fuel source.
- There were 8 boilers 100 MW (or 810 KPPH) or larger in size. Of this number, 6 used coal, 1 used gob, and 1 used pet. coke as their primary fuel source.
- Of the 53 boilers included in the survey, 19 boilers used a secondary fuel source. Of these 19 boilers, 2 used coal, 7 used pet. coke, 1 used wood, 2 used tires (TDF), 3 used sludge, 3 used fuel oil, and 1 used an unknown fuel as a secondary fuel source.

# Survey Analysis

- 2003 Boiler Survey
- List of benchmarks
- Benchmark analysis and results
- High and low values for SO<sub>2</sub> reduction
- Forced outage causes
- Boiler OM concerns

- Thank you for your attention
- Are there any questions?