Biomass power boilers

R&D | FS/Demo | **Product/ Service**

Energy & Environment SBU

- Biomass power generation uses carbon-neutral fuels such as wood-derived fuel and agricultural residue and is an environmentally friendly technology that **does not significantly increase atmospheric CO_2 levels on a life-cycle basis.** Carbon negative is possible by capturing CO_2 generated at biomass power plants and combining it with subsequent storage and utilization processes.
- SHI's circulating fluidized bed (CFB) boilers and bubbling fluidized bed (BFB) boilers can stably burn a wide range of fuels, from biomass to recycled fuels. These boilers are widely used for feed-in tariff (FIT) and private power generation.
- CO_2 can be easily captured by utilizing oxyfuel combustion technology (such as Flexi-Burn^{TM} technology), which supplies oxygen into a conventional CFB boiler and burns biomass fuel.

Carbon Neutral Contribution points

- ✓ Supplying adjustable power for stable grid operation
- ✓ **Contributing to post-fossil-fuel and the reduction of CO_2 emissions while utilizing locally available biomass and recycled fuels**

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