



## Phoenix BioPower AB

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**EXPERTISE** Phoenix BioPower develops a revolutionary technology for high efficiency biopower with a near doubling of the electrical efficiency from biomass. The technology is based on high pressure gasification integrated with gas turbine combustion and steam injection.

The company focuses its development on key technology areas to provide turnkey solution in partnership structures on commercial terms before the end of the decade.

**TECHNOLOGY** The Biomass-Fired Top Cycle (BTC) Technology represents a revolution for plannable renewable power generation. Moving from the principle of the steam engine to gas turbine technology for the future decarbonized energy system.

Through the integration of high-pressure gasification with gas turbine combustion and massive steam injection, waste heat is recycled, and compression energy reduced, resulting in superior electrical efficiencies.

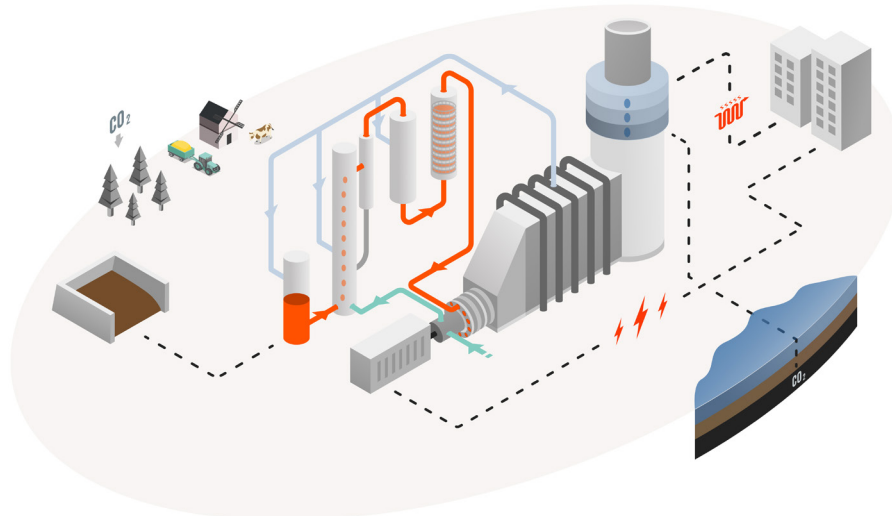
The technology is also well designed for CCS applications (Carbon Capture & Storage) with significantly lower cost of capture compared to steam turbine solutions.

The steam injection also renders the gas turbine ideal for hydrogen utilization with ultra-low NOx emissions.

In an energy system with increased share of intermittent power generation from sun and wind, system stability, capacity requirements and consumer demands call for more plannable renewable power.

**SERVICE/INNOVATION** The innovation is based on a novel gasification technology, the Hybrid Fluidized Bed (HFB) gasifier, a novel gas turbine technology, the Top Cycle, and the integrated biopower plant, BTC - Biomass-Fired Top Cycle.

**TARGETING SECTORS** Plant suppliers, Utilities, pressure vessel suppliers, EPC contractors - Engineering, Procurement and Construction. BOT/BOO operators (Build, Own Transfer /Build, Own Operate).



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