



MARKET SEGMENTS

**Biogenic & Synthetic
Gaseous Fuels**

District Heating Grid
Gas & Steam Turbines
Industry

B

BOOTH NO.

B06 Phoenix BioPower · Sweden

Product: BTC- Biomass Fired TopCycle

Doubling the efficiency of power production from biomass

THE NEED. The rapid move towards renewable energy has led to heavy investments in intermittent power, primarily wind. Nuclear is being phased out and fossil power needs to be phased out to meet the obligations of the Paris Climate Agreement. Many countries and markets are now running the risk of power output shortages. This will increase the demand for power generation that is both renewable and plannable.

THE SOLUTION. BTC technology offers plannable, renewable and profitable biopower. As the BTC concept doubles electrical efficiency and halves the levelised cost of production, it gives plant operators a superior return on investment. The plant can be ramped up to meet increased demand and capture value at high spreads. Waste products from the forest and agro industries can be utilised, turning waste into a resource. BTC is a both a CHP technology, providing 2-3 times more power per heat grid at very high resource efficiency, and can be used in power-only applications due to the low LCOE.

KEY FEATURES.

- Plant cost under 3000 €/kW electricity.
- Electrical efficiency 50-60% and total efficiency 100-110% (LHV).

VALUE PROPOSITION.

- Marginal cost <40€/MWh without subsidies.
- Plannable and renewable power.
- Positive NPV without subsidies.

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STRATEGIC PARTNERSHIPS/ CUSTOMER REFERENCES

References available on request