



CHARLIE

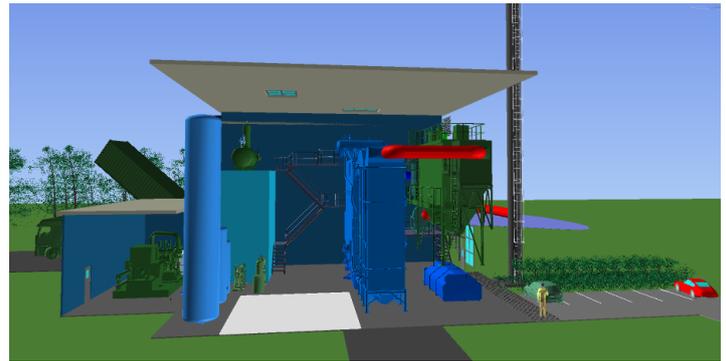
5 - 6 and 8 MW

The Charlie model is a predesigned steam boiler plant, which has been standardized to lower the cost, increase the efficiency and ensure high operation reliability.

As for all Focus BioEnergy's models, the customer will have the opportunity to customize the plant to their special needs.

A power plant with a Charlie model can supply steam only, steam and electricity or heat and electricity, ranging in 5 MW, 6 MW and 8 MW thermal energy output from the boiler.

With a pressure of up to 100 bar on the boiler, the boiler works as an accumulation of energy, that ensures a stable energy flow, despite fluctuation in the needs of the customer.



BIOMASS FUEL

A Focus BioEnergy steam boiler plant is fired with biomass. There are many different types of biomass, useful for firing a steam boiler plant.

Wood chips and wood pellets are the most used biomass, but also straw, straw pellets, energy crops, waste wood, olive stones and other agricultural waste products can be used.

The humidity of the biomass used for the Charlie model can be up to 59%



PLANT EXAMPLE

General information

Boiler output:	8 MW
Plant efficiency:	94%
Biomass:	Wood chips (up to 59% water)
Pressure:	60 or 100 bara
Super heat temp.:	Max 500° C

Boiler production steam

Pressure:	8 bara
Steam production:	12.030 kg/h

FOCUS BIOENERGY

Focus BioEnergy is an engineering and project company, which advises our customers about energy solutions within steam and CHP (Combined Heat and Power) that creates a healthy and sustainable economy.

This is done by advising on and delivering solutions, which replaces fossil fuels with CO₂ neutral and environmentally friendly biomass.

Our expertise is based on more than 30 years of experience within the world leading Danish and Scandinavian District Heating industry and in the Process industry.

