



ALPHA

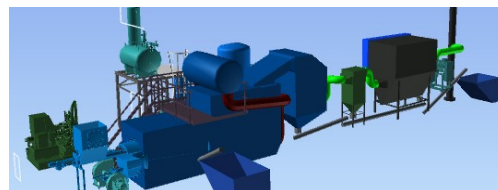
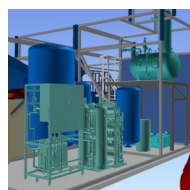
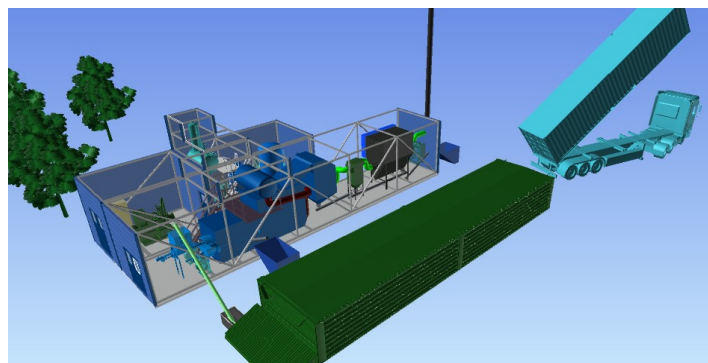
1,0 to 2,6 MW

The Alpha model, is a pre-fabricated biomass fired steam boiler plant.

An Alpha model power plant is installed in special designed units, that takes up minimum space and are capable of being repositioned if needed. All components are installed before shipping, which makes the installation period on site as short as possible.

The Alpha model is able to supply steam only, steam and electricity or heat and electricity, ranging from 1,0 up to 2,6 MW thermal energy output from the boiler.

As the rest of Focus BioEnergy's power plants, the Alpha model can be customized through a variation of parameters, despite being a pre-fabricated power plant.

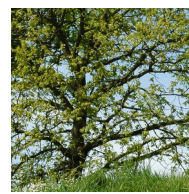


BIOMASS FUEL

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 Alpha model can be up to 40%



PLANT EXAMPLE

General information

Boiler output:	Up to 2,6 MW
Boiler efficiency:	92%
Biomass:	Wood chips (up to 40% water)
Pressure:	40 bara
Super heat temp.:	Max 400° C

Boiler production steam

Pressure:	8 bara
Steam production:	3.800 kg/h

FOCUS BIOENERGY

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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.





BRAVO

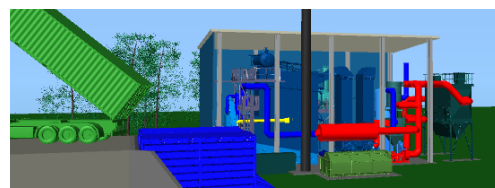
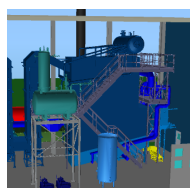
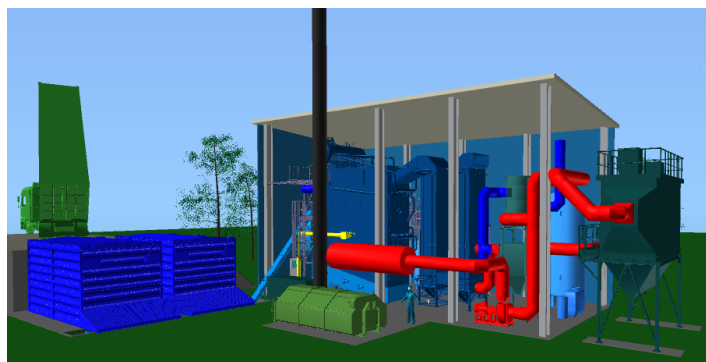
3 and 4 MW

The Bravo 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 Bravo model can supply steam only, steam and electricity or heat and electricity, ranging in 3 or 4 MW thermal energy output from the boiler.

With a pressure of up to 60 bar on the boiler, the boiler works as an accumulation of energy, that ensures a stabile energy flow, despite fluctuation in the needs of the customer.

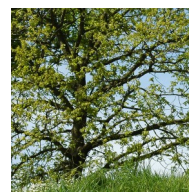


BIOMASS FUEL

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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 Bravo model can be up to 59%



PLANT EXAMPLE

General information

Boiler output:	4 MW
Plant efficiency:	94%
Biomass:	Wood chips (up to 59% water)
Pressure:	60 bara
Super heat temp.:	Max 440° C

Boiler production steam

Pressure:	8 bara
Steam production:	6.015 kg/h

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CHARLIE

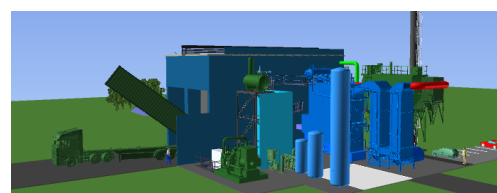
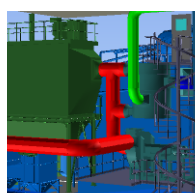
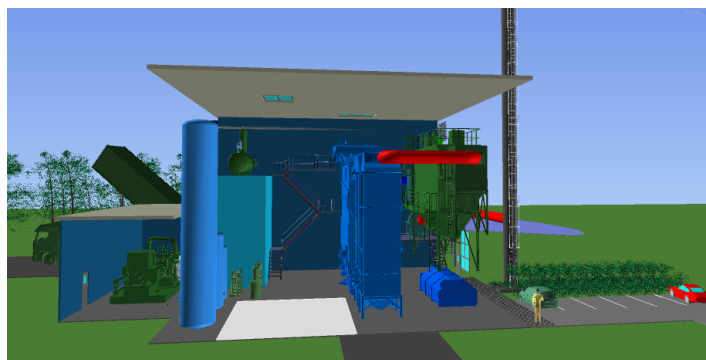
5 - 6 and 8 MW

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 stabile energy flow, despite fluctuation in the needs of the customer.

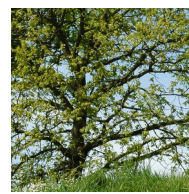


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The humidity of the biomass used for the Charlie model can be up to 59%



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

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DELTA

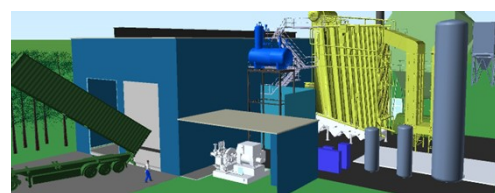
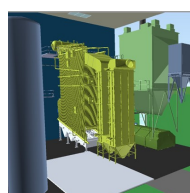
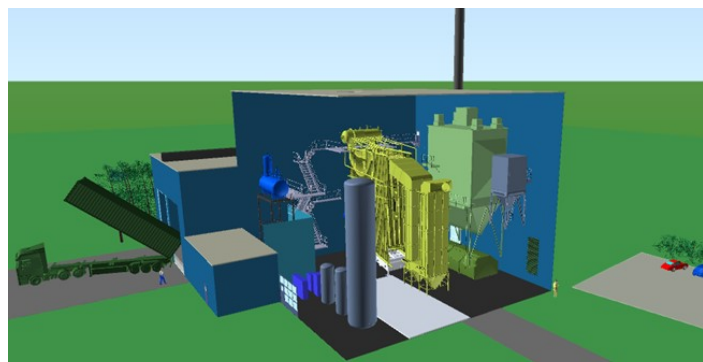
10 - 12,5 and 15 MW

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

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A power plant with a Delta model can supply steam, steam and electricity or heat and electricity, ranging in 10 MW, 12,5 MW and 15 MW thermal energy output from the boiler.

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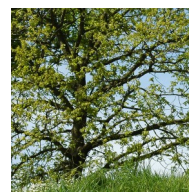


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PLANT EXAMPLE

General information

Boiler output:	15 MW
Plant efficiency:	94%
Biomass:	Wood chips (up to 59% water)
Pressure:	60 and 100 bara
Super heat temp.:	Max 500° C

Boiler production steam

Pressure:	8 bara
Steam production:	22.585kg/h

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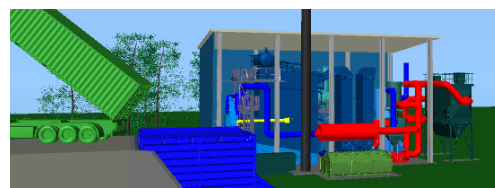
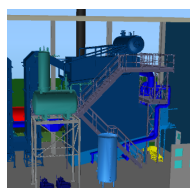
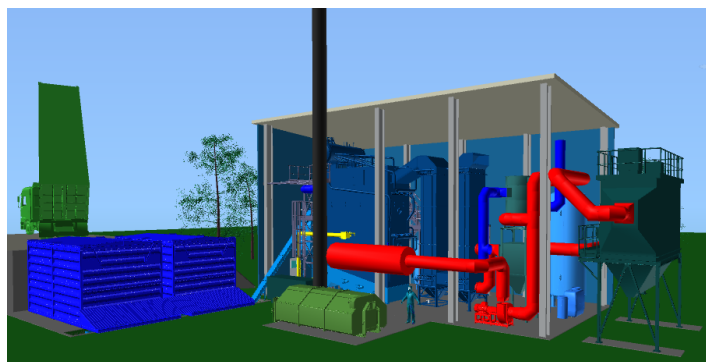
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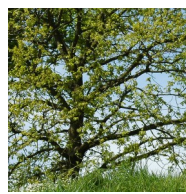


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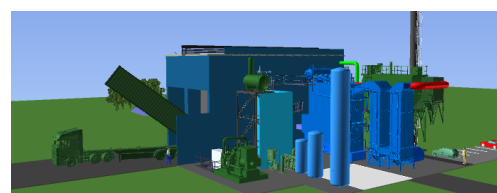
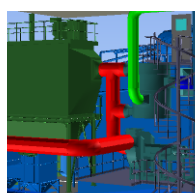
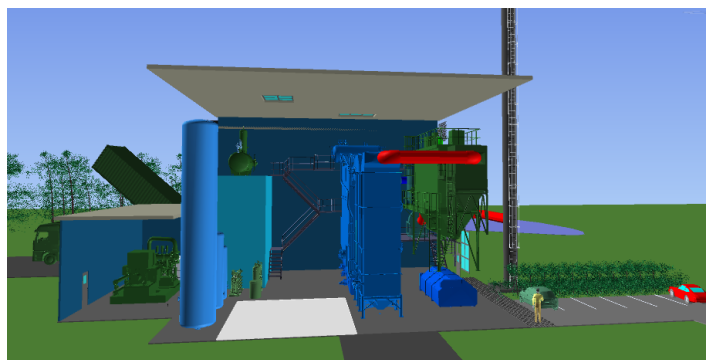
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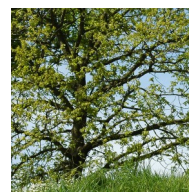


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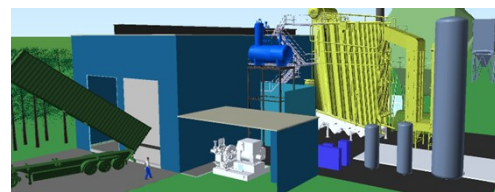
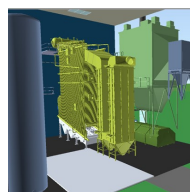
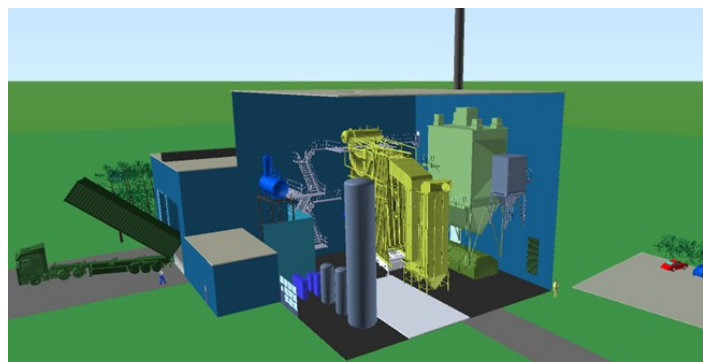
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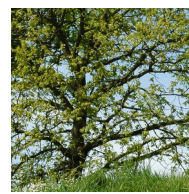


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PLANT EXAMPLE

General information

Boiler output:	15 MW
Plant efficiency:	94%
Biomass:	Wood chips (up to 59% water)
Pressure:	60 and 100 bara
Super heat temp.:	Max 500° C

Boiler production steam

Pressure:	8 bara
Steam production:	22.585kg/h

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