MYRIAD
HEAT AND POWER PRODUCTS

CHP

Options

CHP Options

Myriad Heat & Power Products

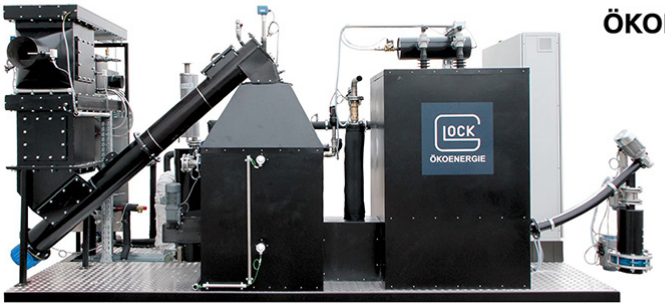
1. Financial incentives for CHP from solid fuels

	Biogas CHP	Biomass CHP
Mechanism	Gasification of solid biomass into syngas which is burnt in an internal combustion engine with directly coupled generator.	Thermal combustion of solid biomass to either heat a medium (water, steam, thermal oil) or using hot flue gasses directly in a turbine or screw expander generation plant.
ROC subsidy (16/17 support)	1.8 ROCs for Advanced Gasification	1.8 ROCs for Dedicated Biomass with CHP
RHI thermal subsidy (current support levels, subject to digression)	7.6 p/kWh, no cap on usage	4.1 p/kWh, no cap on usage

2. Biogas

Wood Chip - Small commercial gasifier

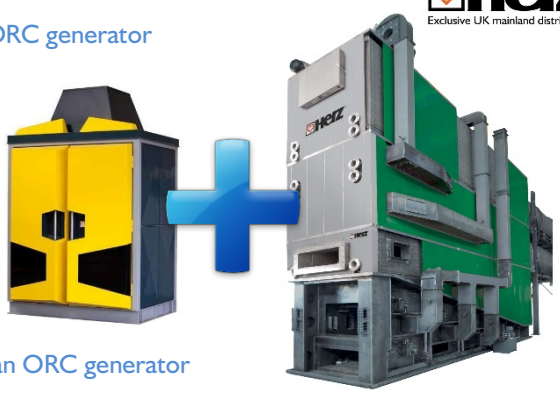
Fuel type	Wood chip
Fuel specification	P31s-P45S / class A1 / G30 W10/20/30/40
Electrical output	18 kW
Thermal output	48 kW
Fuel consumption	20 kg/hr / 155 T/yr
Container option	5.2 x 2.2 x 2.6m Skid + fuel storage
Overall efficiency	80-83%
Gross electrical efficiency	~30%



3. Biomass

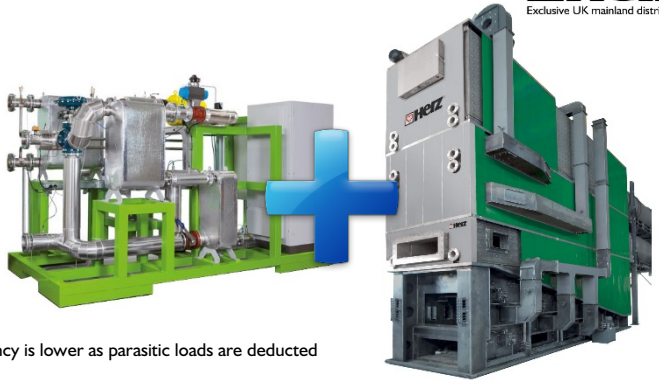
I. Large commercial combustion unit delivering flue gas to an ORC generator

Fuel type	Wood chips
Fuel specification	G30, 50 or 100 / W10, 30, 40 or 50
Electrical output	175 kW
Thermal output	650 kW
Fuel consumption	550kg/hr / 4,000T/yr
Overall efficiency	80-85%
Electrical efficiency	16% (gross)



II. Large commercial combustion unit delivering Hot Water to an ORC generator

Fuel type	Wood chips
Fuel specification	G30, 50 or 100 / W10, 30, 40 or 50
Electrical output	105 kW
Thermal output	1,150 kW
Fuel consumption	550kg/hr / 4,000T/yr
Overall efficiency	80-85%
Electrical efficiency	14% (gross)



Notes and glossary:

- **ROC**: Renewable Obligation Certificate
- **RHI**: Renewable Heat Incentive
- **Electrical efficiency**: Electrical output divided by total energy input
- **Gross electrical efficiency**: excludes parasitic loads. Net electrical efficiency is lower as parasitic loads are deducted
- All fuel consumption is based on 7500 full load hours per year

Registered in England No. 07691864 VAT Reg No. 226 0842 25

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