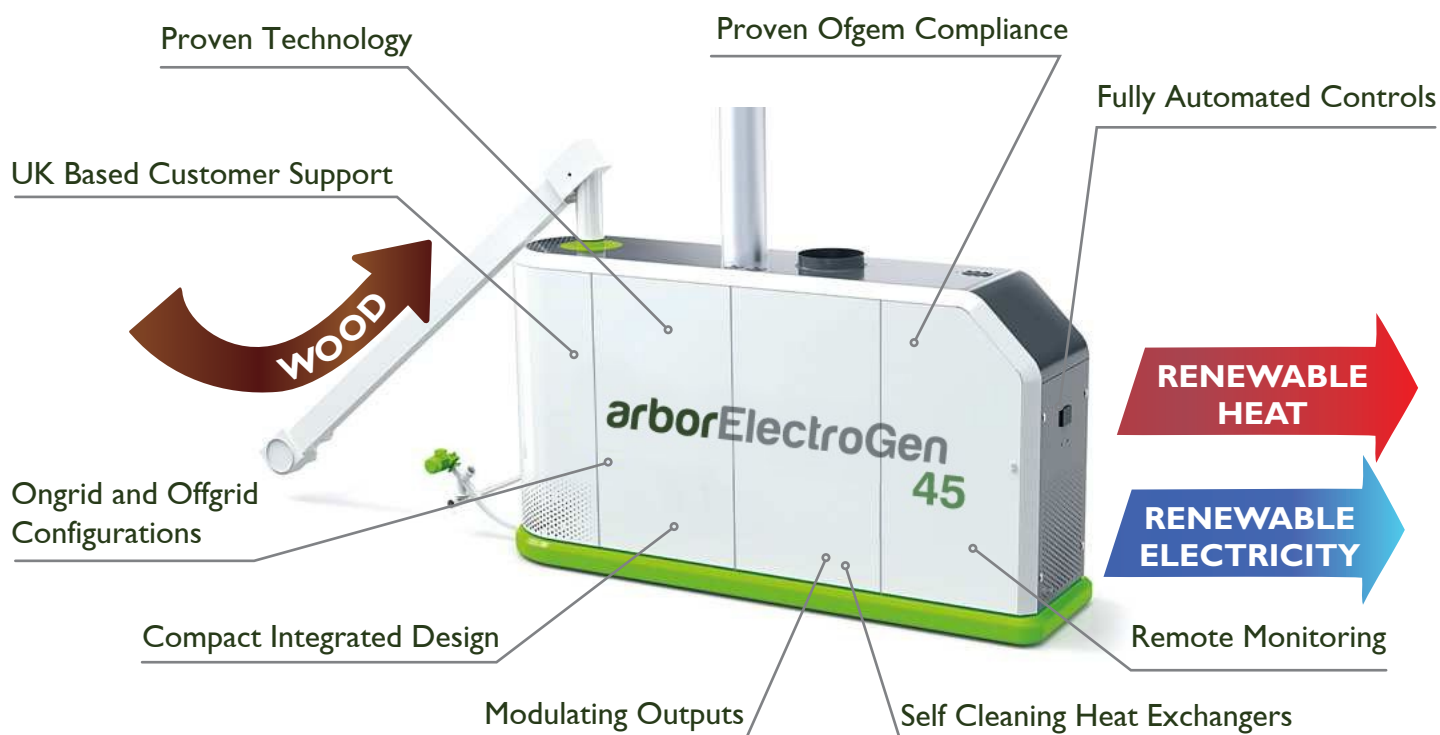


# arborElectroGen<sup>®</sup> Biogas CHP

RENEWABLE HEAT AND ELECTRICITY FROM WOOD

POTENTIAL PAYBACK < 3 YEARS !\*



## Key Features

- Highest available RHI and ROC revenues
- Incentivised year round operation
- Better returns than any other renewable technology
- Easy integration into existing plant room
- Clean generation with ultra low emissions
- Offset traditional fossil fuels
- Renewable export tariff for surplus electricity
- Minimal installation time



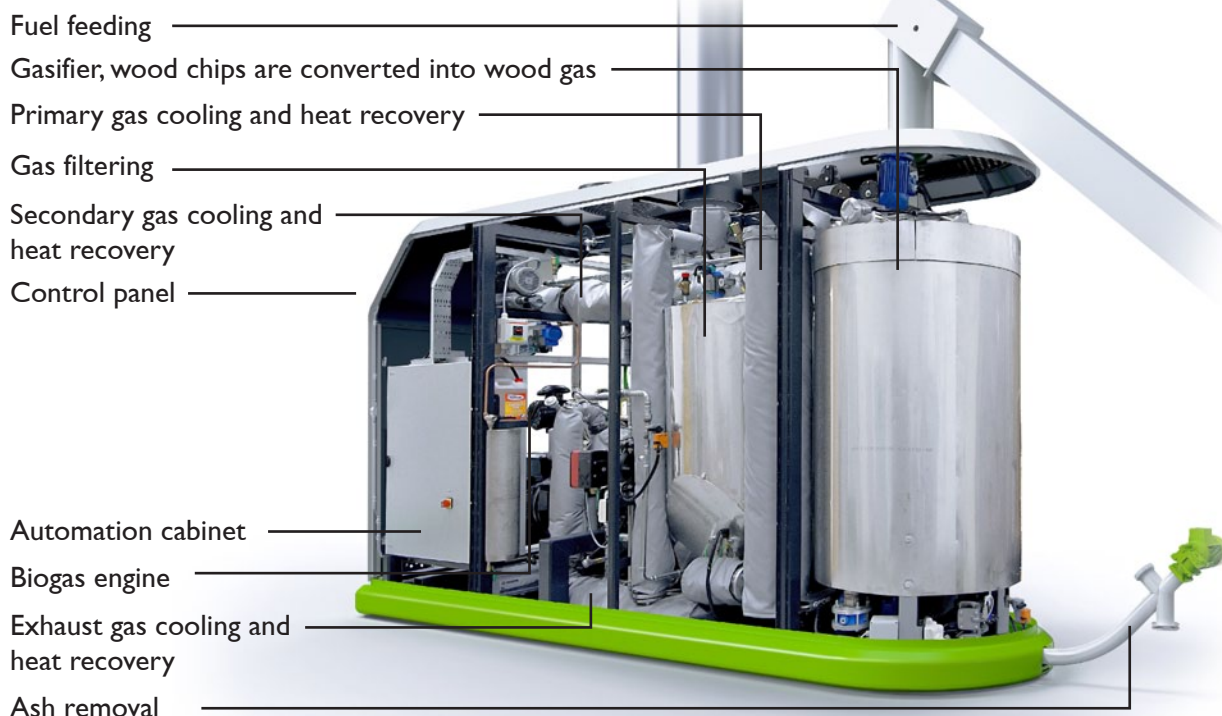
\*Payback is site dependant, please contact us for further analysis

delivering revenue from renewables

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|   |  |
|---|--|
| <b>Model:</b>   | Arbor 45 Indoor  |
| <b>Output:</b>  | Output 45kW electrical.<br>82kW heat from engine jacket & exhaust,<br>up to 18 kW from Gas cooling, up to 20kW<br>radiant heat from housing. Electrical output can<br>be adjusted between 30-100%. |
| <b>Dimensions of the unit:</b>  | Length 4820mm, Width 1270mm, Height 2500mm   |
| <b>Free space for maintenance (minimum):</b>                                | 1200mm on both sides or<br>1200mm in between each unit if installed side by<br>side, 1000mm in control panel end, 1000mm in<br>ash conveyor end  |
| <b>Weight of the unit:</b>  | approx. 4500kg   |
| <b>Dimensions of grid feeding unit (separate installation by the unit):</b> | Length 500mm, width 600mm, height 1800mm   |
| <b>Weight of G59 grid feeding unit (separate):</b>                          | approx. 200kg  |

|                                |   |
|--------------------------------|---|
| <b>Fuel and consumption</b>    |   |
| <b>Fuel</b>                    | Wood chips (tested species: birch, spruce, pine,<br>aspen)  |
| <b>Fuel moisture</b>           | <18%, optimum <15%  |
| <b>Fuel particle size</b>      | >80% between 16-50mm, >60% between 30-50mm,<br>9% 50-63mm, all below 63mm.<br>1% below 3.2mm                                |
| <b>Fuel consumption</b>        | approx. 4.5 cubic metres /24h at full power level,<br>38kg per hour. May vary depending on the fuel<br>quality and moisture |
| <b>Electrical consumption:</b> | approx. 1.5-2 kW  |
| <b>Ash produced:</b>           | approx 1-2% of input fuel   |
| <b>Ash removal:</b>            | Automatic ash removal   |

## Financial Benefits:

### Example Calculation for arborElectroGen 45

|                           |                 |
|---------------------------|-----------------|
| Electricity offset value  | £ 30,000        |
| Heat offset value         | £ 45,000        |
| ROC revenue               | £ 25,000        |
| RHI revenue               | £ 47,000        |
| Fuel cost                 | £ 36,000        |
| <b>ANNUAL NET BENEFIT</b> | <b>£111,000</b> |

Financial benefits will vary by site



Length 4820mm, Width 1270mm, Height 2500mm

#### Contact:

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