

For reliable, renewable energy systems it has to be

# The Low Carbon Heat & Power Experts

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Capability Statement

0203 189 0665  
[www.myriadproducts.co.uk](http://www.myriadproducts.co.uk)

Peace of mind  
comes as standard  
when you choose  
the experts

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**Wates**

MYRIAD heat and power products is majority owned by the Wates Group Ltd. The Wates Group is one of the largest family-owned construction, development and property services companies in the UK.



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HARNESSING FREE POWER

# PV & Batteries

Our expert engineers are committed to delivering reliable systems that deliver CO<sub>2</sub> reductions and cost savings.

For more than two decades Myriad has installed tens of thousands of PV panels and battery system. The benefits of our expertise, bespoke system designs and dedicated service & maintenance engineers are undeniable.

**Bill Reduction** – Solar energy will reduce your business electricity consumption and energy cost.

**Solar Income** – Excess energy can be sold to the grid to provide an additional income stream to your business.

**Financial Stability** – In times of fluctuating energy costs, generating your own power can safeguard your business and provide peace of mind.

**Low Risk Investment** - A well-designed Solar PV system can deliver payback on initial investment in as little as 2 - 4 years.

**Lower Carbon Footprint** – Solar energy can help your business reach net-zero goals, reducing your carbon footprint.

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Our Expert engineers have designed and installed 1000s PV and Battery systems saving tons of CO<sub>2</sub> and hundreds of thousands of pounds.

# PV & Batteries

## Our Suggested Minimum Requirements For Maximum Efficiency

These indicators will ensure your PV system provides a good financial return:

- 3 phase electricity supply to the building
- Roof area > 250m<sup>2</sup>
- Electrical demand > 150,000 kWh/yr.
- Roof pitch angle < 25°, although a flat roof and even ground areas can be utilised with panel frames to generate the best panel orientation.
- Roof is not facing North, NE or NW. Any other orientation is good for generating
- Electrical cost > 20p/kWh

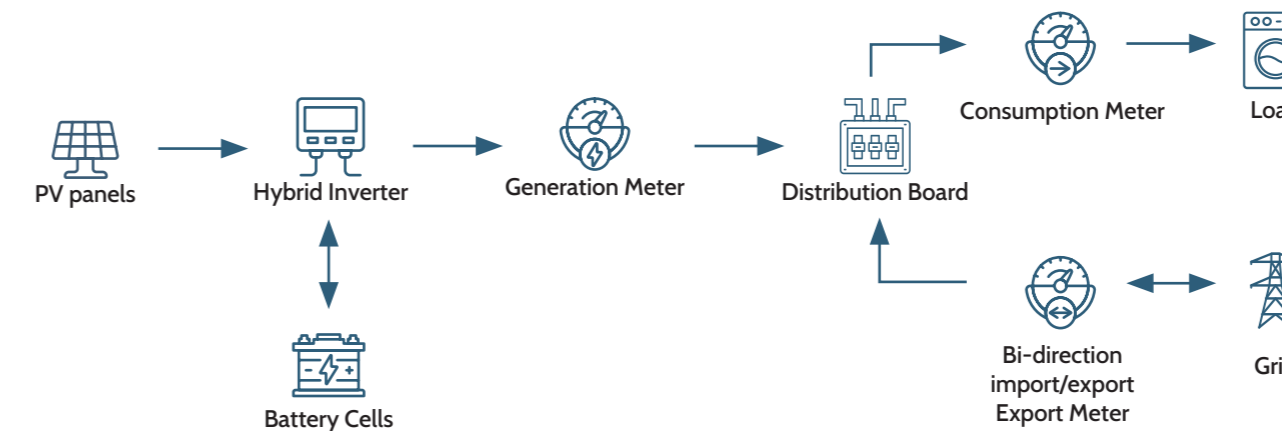
Installation size (kW)	Installation*	Saving Per year**	Payback Years	C saving Tons per year**
100	£ 70,000	£ 23,750	2.9	20
200	£ 130,000	£ 47,500	2.7	39
500	£ 300,000	£ 118,750	2.5	98
1000	£ 550,000	£ 237,500	2.3	197

\*Typical assuming metal trapezoidal roof

\*\*Based on switching from grid electricity @25p/kWh

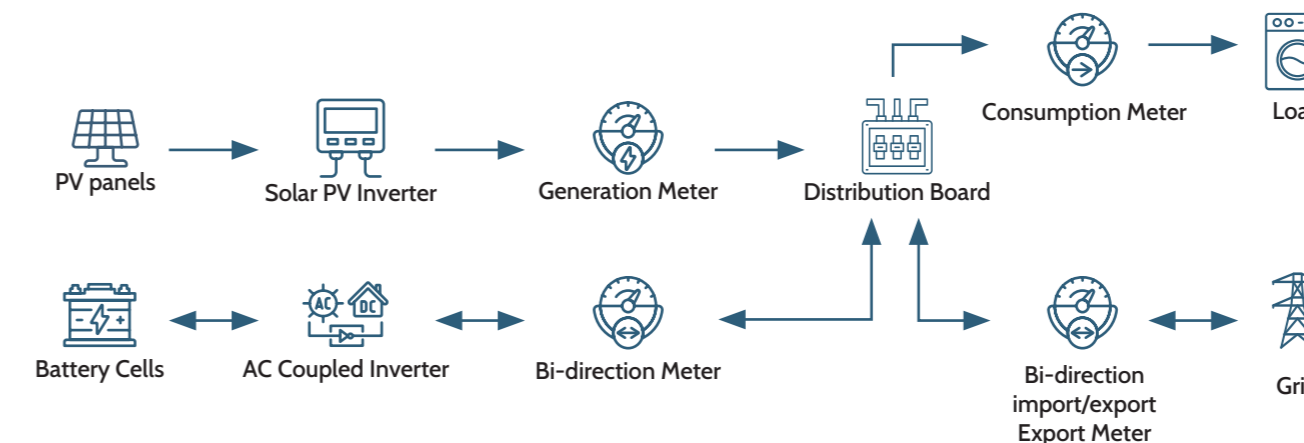
### Hybrid System

Hybrid inverters are used for **new PV** installations as they can handle the PV generation as well as the charge/ discharge of the batteries.



### AC Coupled

A/C coupled systems are relatively simple charge / discharge systems, used for larger PV installations or on existing configurations to make best use of low night time tariffs.



When designing and selecting your PV system, finding the best-fit battery solution is paramount. Our team of engineers can help you during the planning and selection stages, as well as installing your chosen battery storage system with new or existing PV systems.

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COMMERCIAL & INDUSTRIAL

# Biomass Boilers

Our expertise comes from our experience. Finding the right products and designing the perfect system is what we do.

For more than 20 years we've helped thousands of customers achieve lower cost and lower carbon heating.

Our experts have a depth of knowledge and experience that comes from working with hundreds of customers from every sector and industry. We are committed to assessing a clients' needs and designing the best solutions for reducing energy consumption and costs.

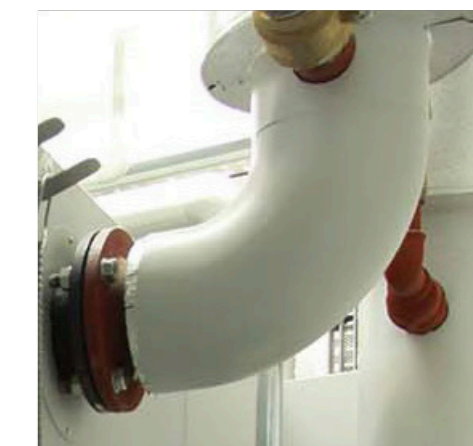
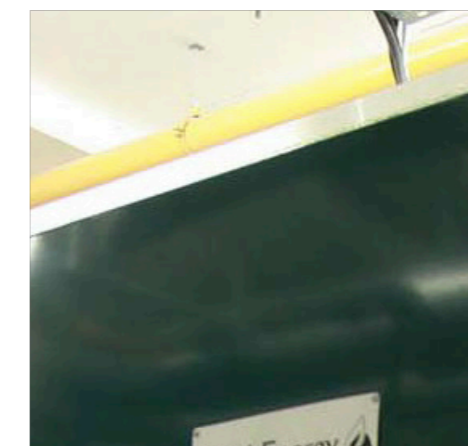
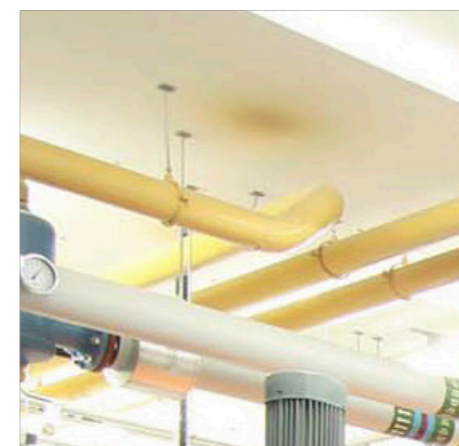
Biomass boilers are tremendously versatile and the perfect choice for a huge number of applications from pools, schools and hotels to horticulture, manufacturing and beyond.

The adaptable nature of biomass boilers, and the wide range of heating outputs (100kW to 5MW) make them an excellent fit for almost any application.

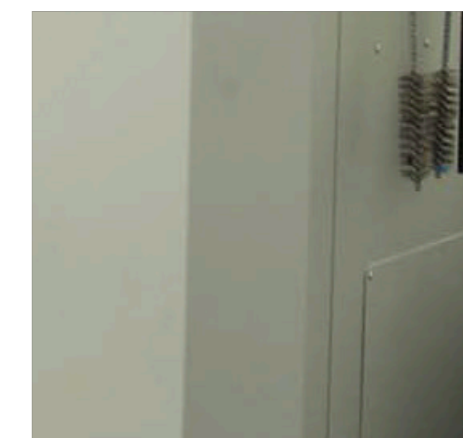
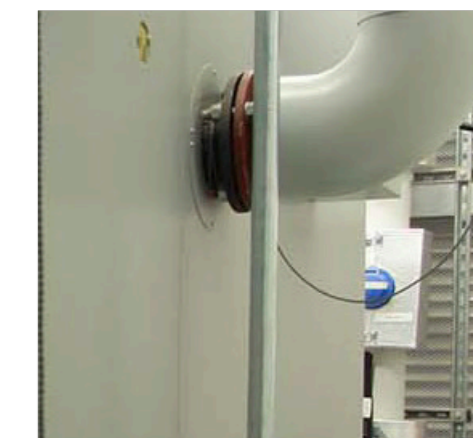
Partnering with Myriad means that you are supported by UK leading engineers, trained and experienced in the design, installation & maintenance of commercial and industrial biomass boilers.

**In other words...**

**...Peace of mind**



Our Expert engineers have installed over 1000 of Biomass Boilers and service more than 1000 every year



# Biomass Boilers

## Our Suggested Minimum Requirements For Maximum Efficiency

These indicators will ensure your Biomass Boiler system provides a good financial return:

- 3 phase electricity supply to the building.
- Current heating is provided by mains gas, LPG, heating oil, heat pumps or electricity.
- Heating bill is greater than £30,000 per year.
- Space available within 50m of the existing plant room for boiler & fuel storage.

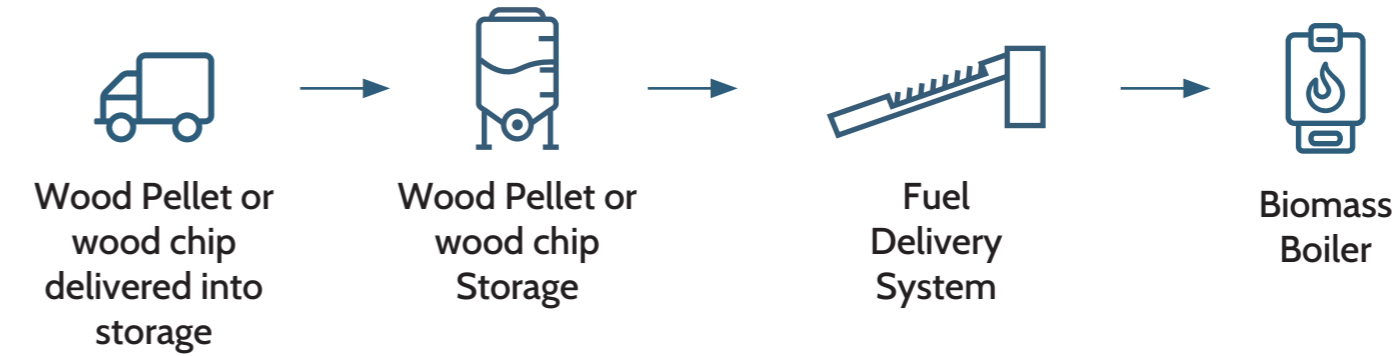
Installation size (kW)	Installation*	Saving Per year**	Payback Years	CO <sub>2</sub> saving oil (T/yr)**	CO <sub>2</sub> saving mains gas (T/yr)**
100	£ 60,000	£ 13,000	4.6	52	38
200	£ 100,000	£ 26,000	3.8	104	76
500	£ 225,000	£ 65,000	3.5	259	189
1000	£ 400,000	£ 130,000	3.1	519	379

\*Biomass to provide base load heating into an existing wet system

\*\*Based on switching from oil to biomass chips

### Biomass Boiler System

Lower your energy bills, reduce CO<sub>2</sub> emissions, and reduce the stress of dealing with the extreme rises in energy prices from oil and gas.



#### Delivery

Fuel delivery is extremely flexible and when designing the right system for you we will consider everything from performance requirements to installation space and from site access to location. We will help you choose the right fuel type for you.

#### Storage

We will design a system that fits your needs and work with you to manage the planning requirements for your store. Minimum volume for storage starts at 5m<sup>3</sup> suitable for domestic properties. The upper limit for storage for commercial and agricultural systems can be as large as 200m<sup>3</sup>.

#### Fuel Transport

Our expert engineers will design the perfect delivery system for you, ensuring your system reaches maximum efficiency and delivering real savings and reducing your CO<sub>2</sub> footprint

#### Boiler

Boiler systems for heating, hot water and steam start from 100kW and go up to 5000kW. They are fully automated and easy to manage, either via integrated controls or via remote access.

When designing and selecting your Biomass system, space can be a concern, but our expert engineers are here to help create a tailored solutions that is right for you.

# Service & Maintenance

Once installed, your plant needs to be routinely serviced in order to ensure it is running efficiently and safely.

Backed up by our team of expert engineers, our customers trust us with the service and maintenance of over 1,000 commercial and industrial biomass boilers and PV systems throughout the whole of the UK.

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## Keeping your system running efficiently maximises your carbon reduction & fuel cost savings



### Biomass Boiler FULL SERVICE

For optimum biomass boiler performance and longevity your system will typically require one full service annually but may require more if your run time is high and/or your fuel is poor quality.

#### Includes:

Myriad's ultimate cover includes all service elements typically required for maximising the life-time of your boiler:

- Deep cleaning and inspection of the Heat exchanger and combustion chamber
- Monthly maintenance service visit
- Site staff training and skills audit
- Remote boiler and alarm monitoring
- Fuel store maintenance
- Boiler condition report
- Flue cleaning
- RHI heat meter compliance check
- Out-of-hours technical help desk
- Contract management



### Biomass Boiler INTERIM SERVICE

We recommend an interim service annually to ensure biomass combustion and emission efficiencies are maintained.

#### Includes:

Inspection and function testing all control and key components. Testing of combustion phases.

- Monthly maintenance service visit
- Interim boiler service and optimisation
- Flue cleaning
- RHI heat meter compliance check
- Out-of-hours technical help desk
- Contract management



### PV Solar ANNUAL HEALTH CHECK

We recommended at least one health check per year to check string integrity, system performance and panel cleanliness.

#### Includes:

String level tests to ensure all panels are producing the correct level of power generation.

- Panel fixing integrity checks are also available under our bespoke contract.
- Condition and inspection report.
- Advise if annual panel clean is required
- Part replacement service.
- Technical advice and support on your system from experienced PV engineers available throughout the entire year.

# MYRIAD

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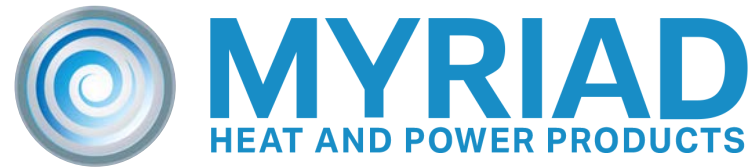
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Reducing cost,  
carbon and  
stress... It's what  
we do!

Industrial Product Processing South England		Garden Centre South England		Door Manufacturer Central South England		College Residential Block Midlands		Auto Component Manufacturer		The Harbour, Lancs NHS Trust Lancashire		Office for National Statistics Wales		NHS Dumfries & Galloway Scotland	
Technology	Solar PV - Roof mounted	Technology	Solar PV - Roof mounted	Technology	Solar PV - Roof mounted	Technology	Solar PV ground mount with Batteries	Technology	Gas CHP - Consultancy Feasibility	Technology	Biomass chip boiler	Technology	Biomass chip boiler	Technology	Biomass pellet boiler
Installation size (kW)	739	Installation size (kW)	363	Installation size (kW)	166	Installation size (kW)	206	Installation size (kW)	750	Installation size (kW)	600	Installation size (kW)	2000	Installation size (kW)	1200
Install time on site (Weeks)	8	Install time on site (Weeks)	4	Install time on site (Weeks)	2	Install time on site (Weeks)	4	Install time on site (Weeks)	N/A	Install time on site (Weeks)	5	Install time on site (Weeks)	10	Install time on site (Weeks)	8
Energy cost saving (£/yr)	£ 266,040	Energy cost saving (£/yr)	£ 120,698	Energy cost saving (£/yr)	£ 52,290	Energy cost saving (£/yr)	£ 86,520	Energy cost saving (£/yr)	£ 985,500	Energy cost saving (£/yr)	£ 105,120	Energy cost saving (£/yr)	£ 240,900	Energy cost saving (£/yr)	£ 91,980
Carbon saving (T/yr)	141	Carbon saving (T/yr)	73	Carbon saving (T/yr)	32	Carbon saving (T/yr)	52	Carbon saving (T/yr)	N/A	Carbon saving (T/yr)	247	Carbon saving (T/yr)	823	Carbon saving (T/yr)	494
Payback (yr)	2.9	Payback (yr)	2.6	Payback (yr)	3.1	Payback (yr)	2.9	Payback (yr)	3.4	Payback (yr)	3.1	Payback (yr)	4.2	Payback (yr)	6.8
Cost of carbon (over lifetime)	£ 199	Cost of carbon (over lifetime)	£ 159	Cost of carbon (over lifetime)	£ 183	Cost of carbon (over lifetime)	£ 173	Cost of carbon (over lifetime)	N/A	Cost of carbon (over lifetime)	£ 67	Cost of carbon (over lifetime)	£ 61	Cost of carbon (over lifetime)	£ 63





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