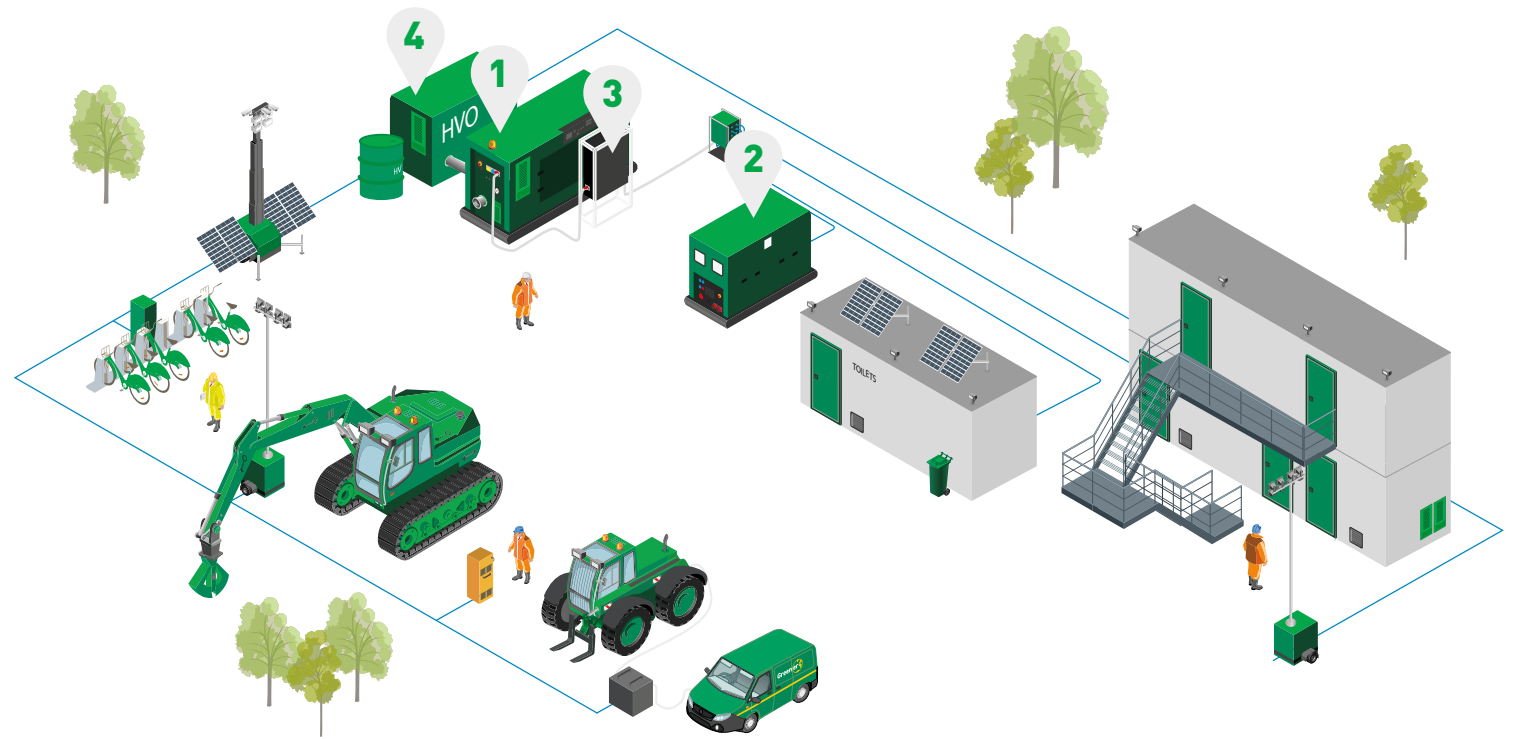


# The Ultimate Clean Energy Solution

Our range of Clean Energy Solutions offer a more sustainable solution to just running a diesel generator. When used in the right configuration they are proven to significantly reduce generator size, fuel consumption and therefore costs, as well as reducing emissions and improving air quality.



**Reduce tail pipe emissions and improve air quality**



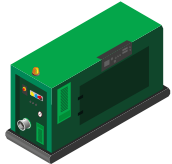
**Reduce fuel costs and emissions by up to 80%\***



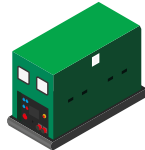
**Reduce fuel costs and emissions by up to 80%\***



**Reduce carbon by up to net 90%**



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**1 Stage V Generator**

**2 BSU**

Battery Storage Unit

**3 EMS**

Energy Management System

**4 HVO Fuel System**

\*see FAQ section for breakdown guide on estimated and average savings








For more information please scan the QR code or contact Central Sales on

**0330 433 1766**

[sunbeltrentals.co.uk/solutions/greener-power-solutions](https://sunbeltrentals.co.uk/solutions/greener-power-solutions)



# What Clean Energy Solution will work best for your site?

APPLICATION	CRANE POWER REQUIREMENT	SITE POWER REQUIREMET			
RUNNING HOURS	24 hour power required	Day Power Only	24 Hour Power Required	24 Hour Power Required	24 Hour Power Required
GENERATOR SIZE	Genset kVA Range 100 or larger	Genset kVA range 20 - 100	Genset kVA range 20 - 50	Genset kVA Range 60 -100	Genset kVA Range 100 or larger
POWER REQUIREMENT	Dynamic Load	Varied	Less than 6 cabins	More than 6 cabins	More than 20 cabins
					
SOLUTION	Generator Prime + PUNCH Flywheel + Battery in Timer Mode - Overnight / Week-ends	Generator + BSU	Generator Prime + Battery in Timer Mode - Overnight / Weekends	EMS + Generator Prime + Battery in Timer Mode - Overnight / Weekends	EMS + Generator Prime + Battery in Timer Mode - Overnight / Weekends
AVERAGE SAVINGS USING A CLEAN ENERGY SOLUTION	<b>50%</b>	<b>50%</b>	<b>60%</b>	<b>80%</b>	<b>80%</b>

## FAQs

### \*When to use a BSU

Does your site require power 24/7?

Does your site have accommodation units/cabins on it?

If you answer YES to both these questions then, a BSU will likely save you money and emissions. This is because the BSU will look after off peak, lower loads (typically overnight and at weekends when power is only needed to run essential devices).

The exact savings will differ per site as all energy requirements are different. The average cost saving from installing a BSU alongside a generator in the optimum scenario is 60% but research shows it can deliver savings of up to 80%.

Our experts will always consult with you to determine if a BSU will provide cost and environmental savings.

### \*When to use an EMS

Larger sites with 6 or more cabins will often benefit from an EMS as this is programmed to control energy consuming cabins and devices, switching them off when not in use.

It is often used in conjunction with a BSU but not all the time, it depends on the energy requirements of your site.

If your site uses a lot of energy most of the time an EMS alone may be the most cost-effective device for you as it can be programmed to turn off high energy consuming devices such as heaters and drying rooms when not in use.

Our experts will always consult with you to determine the best solution for your site.

### \*When to use an EMS and BSU to get maximum savings

On sites with 6 or less cabins that require power 24/7 a BSU is usually installed alongside a generator to deliver significant savings.

Larger sites with 6 or more accommodation units will usually benefit from the installation of both a BSU and EMS to deliver maximum savings.

This is because the EMS is programmed to control and suppress the peak load. It is programmed by our experts to switch off devices when not in use and creates a 'perfect environment' for the BSU to manage the load at off peak times (typically overnight and at weekends). An EMS also takes away a lot of the manual need to go around turning of high energy consuming devices such as water boilers and heating at the end of the day as its automatically programmed to do this and then transfers the load to the BSU.

But there is no clear-cut line to determine which solution will deliver you the greatest savings, however based on our own extensive research we have created the above chart to help determine what combination of cleaner energy solutions will deliver the greatest savings on your site.

Our experts will always consult with you to help determine the solution to deliver the greatest cost and carbon savings for your site.



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