

Fuel Efficiency Comparison

Non Hybrid Welfare cabin:

Running 6kVA generator with diesel, no battery power.

All systems powered directly from the generator:

- Kettle ■ Lights
- Microwave ■ Water
- Heating ■ Sockets

Solar / Battery: X NONE

MPG Hire Ecosmart Solar Hybrid cabin:

Running 3.5kVA generator combined with solar power and battery.

Solar / Battery:

- Lights ■ Low voltage sockets
- Water ■ Battery charging
- Pumps

Generator:

- Kettle
- Microwave
- Heating
- Battery charging

			NON HYBRID 6 kVA welfare unit	6 Person WELFARE UNIT	12 Person WELFARE UNIT
Open plan mobile unit No Office	ANNUAL^(a)	Litres of fuel used	2,600 L	277 L	439 L
		Cost of fuel used ^(b)	£ 4,420 Diesel	£ 525 HVO VS NON HYBRID 6 kVA	£ 835 HVO VS NON HYBRID 6 kVA
		CO ² produced ^(c) (kg)	7,083 kg	75 kg HVO 89.3% Betterment	120 kg HVO 83.1% Betterment
			NON HYBRID 6 kVA welfare unit	10 Person WELFARE UNIT WITH OFFICE	16 Person WELFARE UNIT WITH OFFICE
Mobile unit with office With Office	ANNUAL^(a)	Litres of fuel used	2,600 L	538 L	1,363 L
		Cost of fuel used ^(b)	£ 4,420 Diesel	£ 1,022 HVO VS NON HYBRID 6 kVA	£ 2,590 HVO VS NON HYBRID 6 kVA
		CO ² produced ^(c) (kg)	7,083 kg	147 kg HVO 79.3% Betterment	371 kg HVO 47.5% Betterment

- (a) Based on 10 hours per day, 260 working days per year, 80 days in winter mode and 180 days in summer mode. Location Luton UK. Each day is a typical usage day.
- (b) £1.70p per litre of HVO or Diesel fuel
- (c) Solar panels achieve maximum output in direct sunlight, but they work in normal daylight and cloudy weather too. The amount of power a solar panel or charging kit generates in cloudy weather will be lower compared to direct sunlight. Also the positioning of the cabin will affect the solar charging of the batteries i.e. under trees, etc.
- (d) This assessment doesn't take in consideration the usage of the hydraulics
- (e) This assessment is guidance only

