



A Brief Introduction to LVP Renewables Ltd





LVP Company Profile

As an engineering company, LVP was born in 1975 as Leisure Vehicle Products. We quickly found success as a conveyor manufacturer and from humble beginnings built the company based on a customer focused approach. Adapting the philosophy of “You’re only as good as your last job” has served us well in over 40 years of business.

Through numerous diversifications and evolutions of the company, LVP Renewables Ltd was founded in August 2009 as a separate entity. The industry of renewable energy still deemed to be in its infancy at the time, was a source of real growth for the group. We quickly found our feet in the field of thermodynamic solar panels, a unique alternative to the conventional solar thermal panel. Thermodynamic Solar, which originates from Portugal offers a solar solution that delivers 100% of a customer's hot water every day of the year, even in Irish & British weather. LVP quickly forged a relationship with Energie in Portugal and now manage the distribution of the product throughout Ireland and the UK.

Our range has expanded over the years to allow LVP to be recognised as a market leader in the renewable energy sector, both in Ireland and the UK. From a thermodynamic domestic hot water solar installation, to a Solar Photovoltaic installation, to a hybrid integration of both technologies, LVP have the experience and know how to deliver on projects within agreed time frames.

LVP Renewables Ltd support our own team of engineers, installation crew and customer service staff to deliver a complete package to the end user. We have a 7 day a week technical support line available to the customer should they have any ongoing queries regarding their system.

We still believe that each customer and project we have is unique. We engage with the customer prior to sale and carry out full technical site survey in order to discuss all options that are available to the prospective buyer.

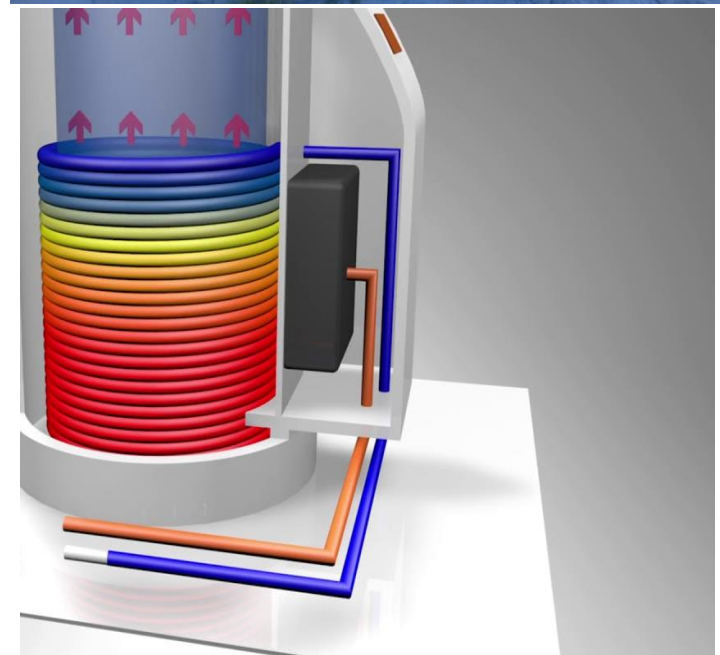
LVP Renewables is a second generation family owned and run company based in Finglas, Dublin. We offer a nationwide service.

Thermodynamic Solar Solutions



Energie Thermodynamic Solar Solutions, originating from Portugal have been manufacturing thermodynamic solar solutions for over 30 years now. LVP have been part of that journey since late 2007 when we installed the first thermodynamic solar system in Co. Kildare. That initial trial proved that the technology worked in our very changeable climate. There are thousands of these systems associated with LVP fitted in domestic homes throughout Ireland and the UK. Some of the varying models are listed overleaf.

A thermodynamic solar panel is sometimes referred to as a solar assisted heat pump. Instead of a large fan to take energy from the air, there is a flat plate evaporator. A refrigerant liquid vaporises in the panel using all environmental conditions. This gas then travels to the compressor where it is compressed to create heat, the heat exchanger then transfers the heat to the water.



Thermodynamic Product Options:

The Eco Unit

The Eco unit has been the most popular of our thermodynamic solar options over the last number of years. Designed to provide a family with up to 100% of its hot water, the Eco unit comes complete as a unit to replace the existing cylinder that is normally housed in the hot-press. This unit comes with the option of 1 panel in a 250L or 300L capacity and a 2 panel option with a 300L or 500L capacity.



System	Panel L x W x H (mm)	Cylinder Dimension (mm)	Dimension with Block (mm) L x W x H
Eco 250ix	2000 x 800 x 20	580	880 x 580 x 1545
Eco 300ix	2000 x 800 x 20	580	880 x 580 x 1765
Eco 500isx (2 panel)	2000 x 800 x 20	650	950 x 650 x 1990

The Eco Top Unit

The Eco Top Unit is quite similar to the standard Eco, however there are one or two subtle changes. The compressor unit is located on top of the cylinder, rather than at the front. This can allow for installations in tighter spots. It has one or two small other features but is essentially the same as the Eco. It comes in a 1 panel option, and capacities of 200L or 250L.



System	Panel L x W x H (mm)	Cylinder Dimension W x H (mm)
Ecotop 200ix	2000 x 800 x 20	580 x 1720
Ecotop 250ix	2000 x 800 x 20	580 x 1900

The Solar Box Unit

The Solar Box is a popular option when the customer already has a solar cylinder installed in their hot press space. It can be connected through a spare coil in the cylinder. The Solar box can also be placed up in an attic if space is restricted in the hot press. This box comes in a 1 panel or 2 panel option. The max capacity that a 1 panel solution will cater for is 300L. A 2 panel solution can cater for a cylinder up to 500L.



System	Panel L x W x H (mm)	Box Dimension L x W x H (mm)
Solar Box	2000 x 800 x 20	400 x 400 x 470

The Domestic Hot Water Heatpump

The DHW Heatpump is a great option if the idea of putting a panel on your roof is off putting or if it's just not feasible. This option, while not quite as efficient as the options with a panel will still offer up to 100% hot water throughout the year. We need to run 2 x 160mm ducts to the exterior of the building either through a vent in the roof or an external wall. This solution comes in 200L or 250L options.



System	Cylinder Dimension W x H (mm)
DHW 200ix	590 x 1657
DHW 250ix	590 x 1946

Photovoltaic Solar Solutions



LVP have teamed up with a few key suppliers to offer a range of options for your Solar Photovoltaic (PV) installation. We can offer panels with outputs from 390W up to 430W along with a wide range of storage products, including hot water diverters and batteries.

Solar Photovoltaic (PV) panels generate DC power (direct current) that then passes into an inverter, which inverts the power into AC power (alternating current). This is what we use in our home to power our appliances.



PV Panels do not need Direct sunlight . They can generate electricity from daylight. This means that even on cloudy days, this system will still generate some electricity.

We can design a system suitable to your consumption and needs with our wide range of products. These systems are also compatible with the current SEAI Grant . Your house must be built prior to 2021 to avail of the grant.

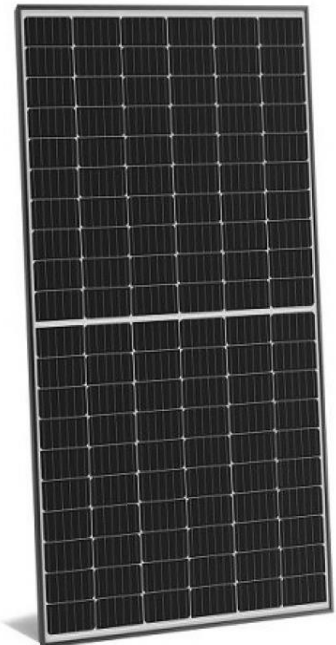
Below are examples of two of the most common Solar PV Panels. We can also source many other brands.

Photovoltaic Panel Options

Panel	Recom all glass
Type	Mono
Power	390W
Warranty	30Y
Power Guarantee	30Y
End Power%	91.25%
Output Warranty	30Y Linear
Back sheet	Black
Frame	Black
Frame Thickness	30mm
Dimensions	1755 x 1038 x 30
Weight	23.5Kg
Made in	France



Panel	Jinko
Type	Mono
Power	410W
Warranty	15Y
Power Guarantee	25Y
End Power%	84.8
Output Warranty	25Y Linear
Back sheet	White
Frame	Black
Frame Thickness	30mm
Dimensions	1722 x 1134 x 30mm
Weight	22Kg
Made in	China



Inverters

LVP Renewables Ltd offer the Solis Inverter as a popular option. It is a traditional string based inverter. If some of your panels are in shade, we can fit optimizers to these shaded panels.



Made by Ginlong Technologies 



Inverter	Solis
Type	String
Nom AC Power	700W – 3600W
Max Current (A)	11A
Phase	Single
Guaranty	5 years (Extended to 10)
Number of MPPT	1 or 2
Interface	RS485, Wi-Fi
Protection Class	IP65
DC Switch	Optional
Weight	7.4kg – 7.7 kg
Made in	China

LVP Renewables Ltd offer the Solis Hybrid Inverter option for the customer looking to install batteries as part of their installation. This inverter is most suited with batteries & a minimum array of 3.5KW.



Inverter	Solis
Type	String
Nom AC Power	3600W – 5000W
Max Current (A)	11A
Phase	Single
Guaranty	5 years (Extended to 10)
Number of MPPT	1 or 2
Interface	RS485, Wi-Fi
Protection Class	IP65
DC Switch	Optional
Weight	17 kg
Made in	China

Battery Storage

As a PV System requires sunlight, there can be times where your system will generate more than the house demand. If this is set to happen regularly, we would advise looking at Battery Storage. Batteries can hold on to any excess electricity generated from a PV system and be stored for a later stage (evening). Below are some options in our battery storage range

Pylontech

- Suitable for our Solis Inverter System .
- Simple, Straightforward Installation
- Can be mounted to a wall, or a multiple storage rack can be offered, to expand the storage capacity down the line.
- Available in sizes of 2.4KW and 3.5KW



Weco

- Suitable for our Solis Inverter System
- Simple, Straightforward Installation
- No Cabinet Necessary
- Available in sizes of 4KW and 5.3KW



Solar Hot Water Diverter

An alternative solution for utilising your generated electricity is a Solar hot water diverter

With an Eddi hot water diverter fitted you will cut the cost of water heating and maximise the free solar energy. Only energy that would otherwise be exported, is diverted to the immersion heater.

The Eddi enables you to automatically consume the excess energy generated at your home. You can just sit back and enjoy the extra savings!

- Cut the cost of water heating in your home,
- Reduce the use of your boiler,
- Maximise the use of the free solar energy generated at your property.





Speak to LVP **Renewables Today**

Your Renewable Energy **Experts**

Thank you for taking the time to read through some of the product offerings in place from LVP Renewables Ltd. Should you have further interest in our product range, we are on hand to answer any further queries you might have. You can contact a member of