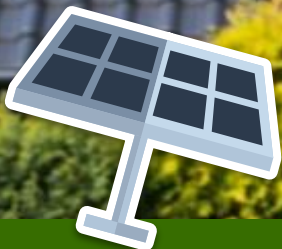




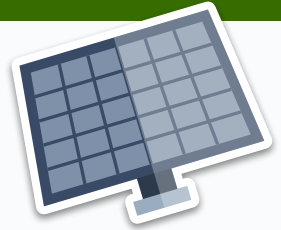
SOLARIS
GREEN
ENERGY



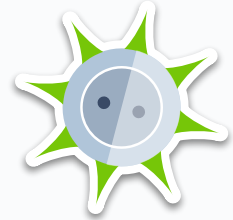


WELCOME to SOLARIS

PV powered HEAT PUMPS



Solaris PV Heat Pumps is a Renewable Energy Company that designs and fits PV-Solar Systems and Heat Pumps.



Solar panels generate your own, FREE ELECTRICITY.

This electricity powers up the Heat Pump and provides a heating and cooling system for your home.

We also install attic insulation and deal with all aspects of heating, plumbing and electrical work.





SOLARIS
GREEN
ENERGY



OUR COMPANY

Solaris PV Powered Heat Pumps is an Irish-Owned Business founded by Kenneth Byrne. With a background in the oil and gas industry as a Plumber, Kenneth has shifted his focus to the Green Energy Sector, specializing in installing Heat Pumps and PV Solar panels.





Our Goals

- Educate individuals about the advantages of using PV Solar Panels
- Benefits of Batteries
- Combining Heat Pumps with Solar Panel Systems
- Utilization of cheap night-time electricity
- Budget Savings

Our Principles

- Installing solar panels safely
- Having satisfied customers



Hazards of Solar Energy Installation

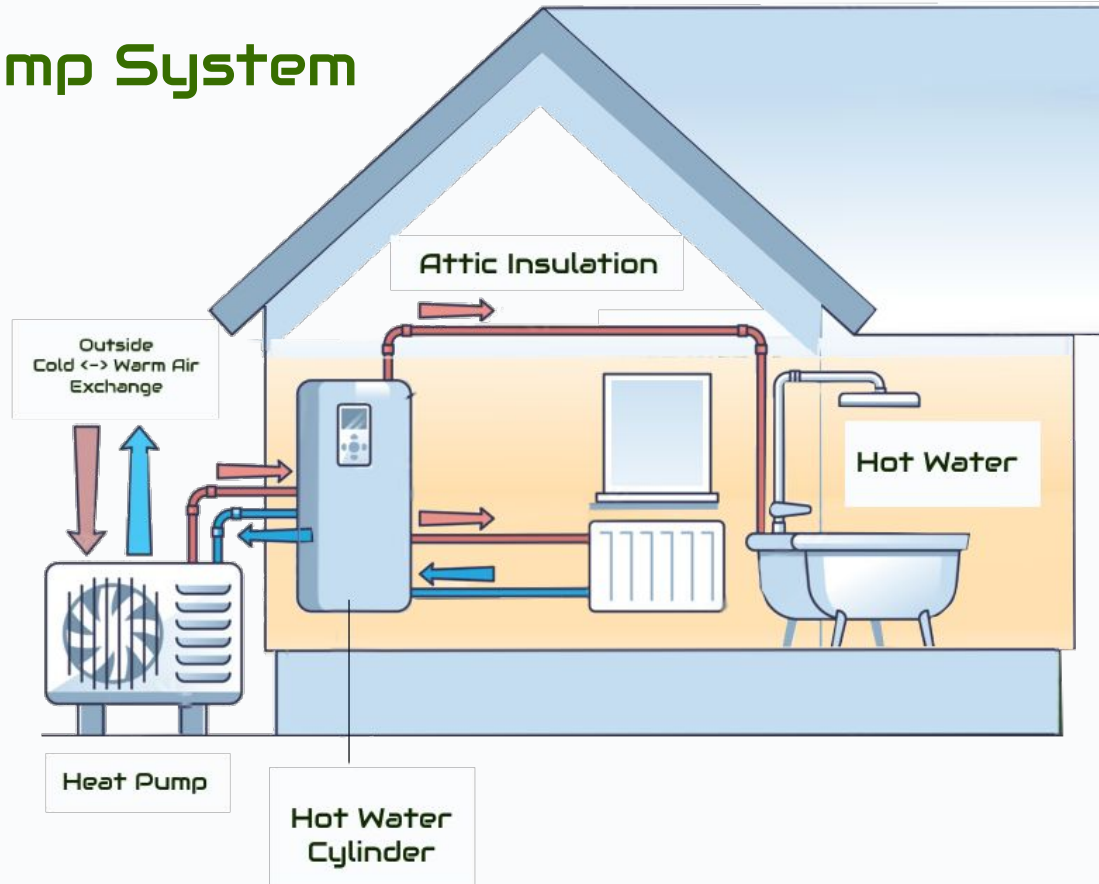
- Electrical Hazards
- Falling Hazards
- Fire Hazards

Our Solar Energy Safety Measures to prevent hazards

- Expert Installation
- Regular Maintenance
- Use of Safety Equipment
- Insurance



Heat Pump System



Advantages of Heat Pumps



1. **Reduced Carbon Emissions:** Heat Pumps are a sustainable heating solution that can significantly reduce carbon emissions, helping Ireland transition to a low-carbon economy.
2. **Renewable Energy Adoption:** By utilising Heat Pumps powered by renewable electricity sources, Ireland can reduce its dependence on fossil fuels and accelerate the adoption of clean energy.
3. **Energy Efficiency:** Heat Pumps are highly energy-efficient, converting renewable energy sources into heat with minimal electricity consumption, resulting in lower energy bills for homeowners.
4. **Government Support:** The government grant of 6,500 euro serves as a valuable incentive for homeowners to invest in Heat Pump Technology, making it more accessible and affordable to transition to eco-friendly heating solutions.
5. **Long-Term Investment:** Installing a Heat Pump is a long-term investment that not only helps combat climate change but also adds value to properties, enhances comfort, and reduces heating costs over time.

Facts to consider for fitting a heat pump

How well is your home insulated?

Solaris PV Powered Heat Pumps will only fit a heat pump in your home if it is suitable. A technical assessment needs to be done to assess this.

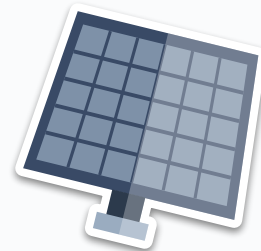
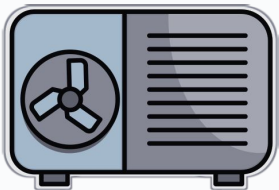
The HLI (heat loss indicator) - Coefficient of Performance

This calculation indicates how well your home holds in heat. If your home was built between 2007 and 2021 a technical assessment is not required for the grant.

The Terms of the Grant

If house is not having appropriate HLI probably your home does not satisfy the terms of the Grant

**We can only give you a price on your new system when your HLI is under 2 and we have completed a site visit and taken our calculations.*



ENVIRONMENTAL IMPACT *with Heat pumps*

By changing to renewable energy sources and minimizing dependence on fossil fuels, heat pumps play a crucial role in reducing greenhouse gas emissions, thereby contributing to a more sustainable and environmentally friendly approach to heating and cooling systems.



Heat pumps can operate with zero emissions

The ambient energy harnessed by the device is already renewable and, when powered by increasingly cheap, clean electricity, heat pumps can replace fossil fuels and provide zero-emissions heat.



Heat pumps are energy efficient and can substantially reduce primary energy consumption

They produce three to five times more useful energy than they consume by extracting useful heat from the environment. They can also utilise waste heat as an ambient heat source.



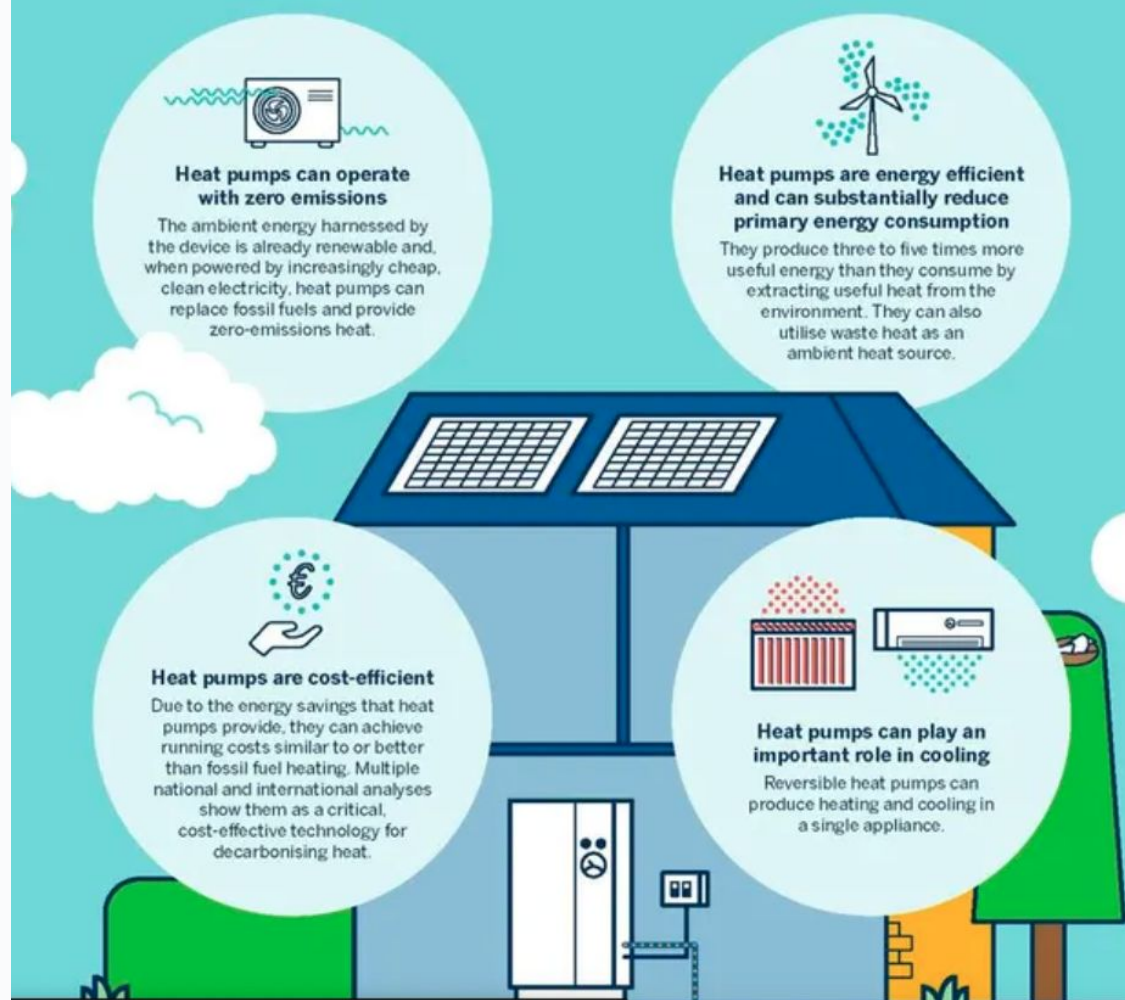
Heat pumps are cost-efficient

Due to the energy savings that heat pumps provide, they can achieve running costs similar to or better than fossil fuel heating. Multiple national and international analyses show them as a critical, cost-effective technology for decarbonising heat.



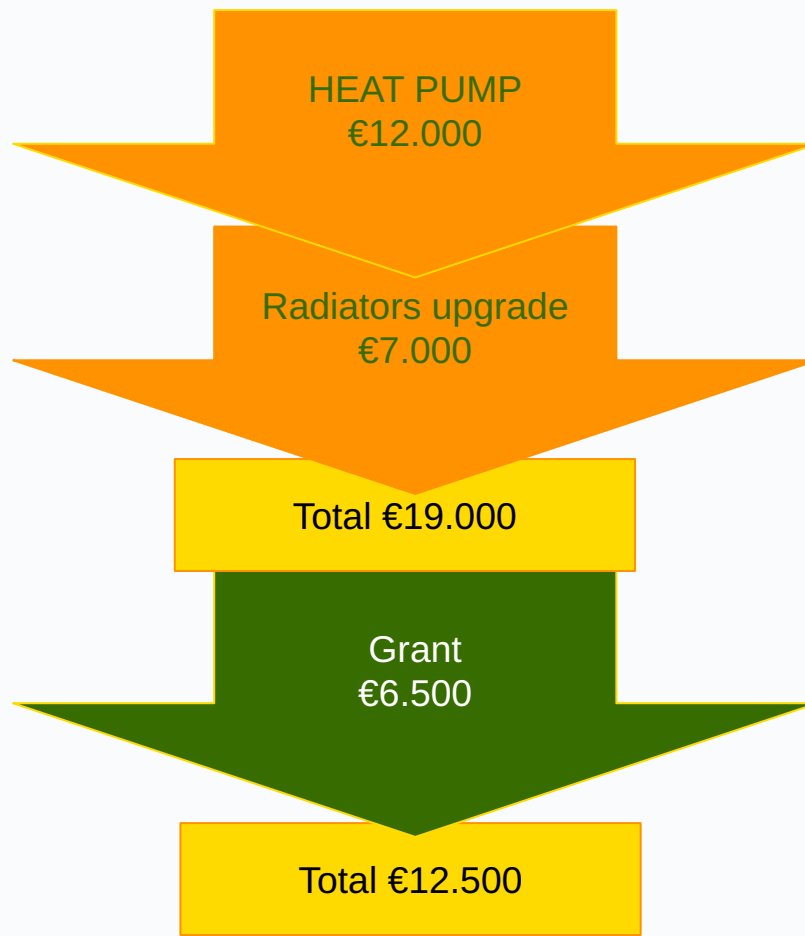
Heat pumps can play an important role in cooling

Reversible heat pumps can produce heating and cooling in a single appliance.

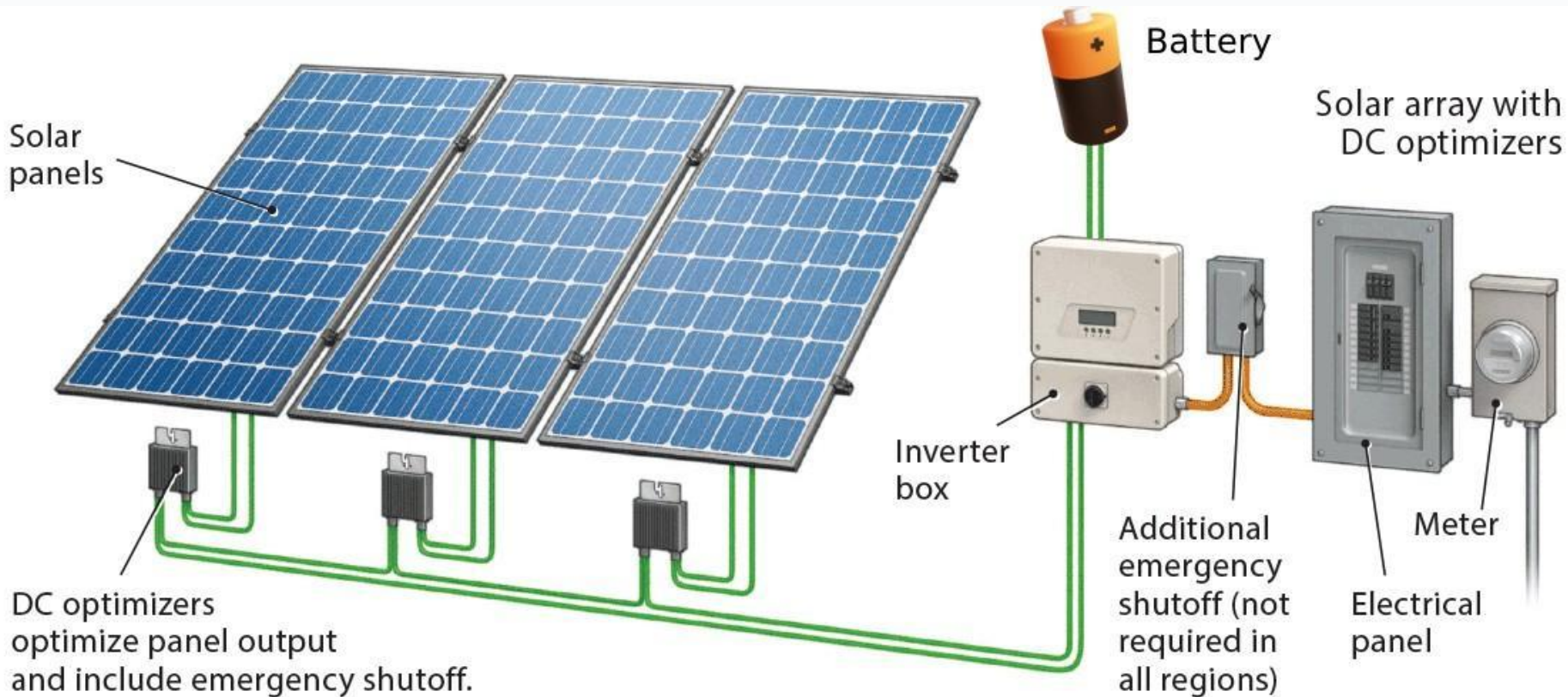


COSTING

The estimated cost of installing a heat pump in an average 4-bedroom house, including changing all the radiators, is 19,000 euros. With the SEAI grant of 6,500 euros deducted, the total cost would be reduced to 12,500 euros. This reduction in cost can make heat pump installations more affordable and incentivize homeowners to transition to energy-efficient heating systems.



Solar System Panel System



Advantages of Solar

Micro-Generation: The production of green electricity from a renewable source, such as your PV-Panels. PV Panels allow you to generate your own green electricity!

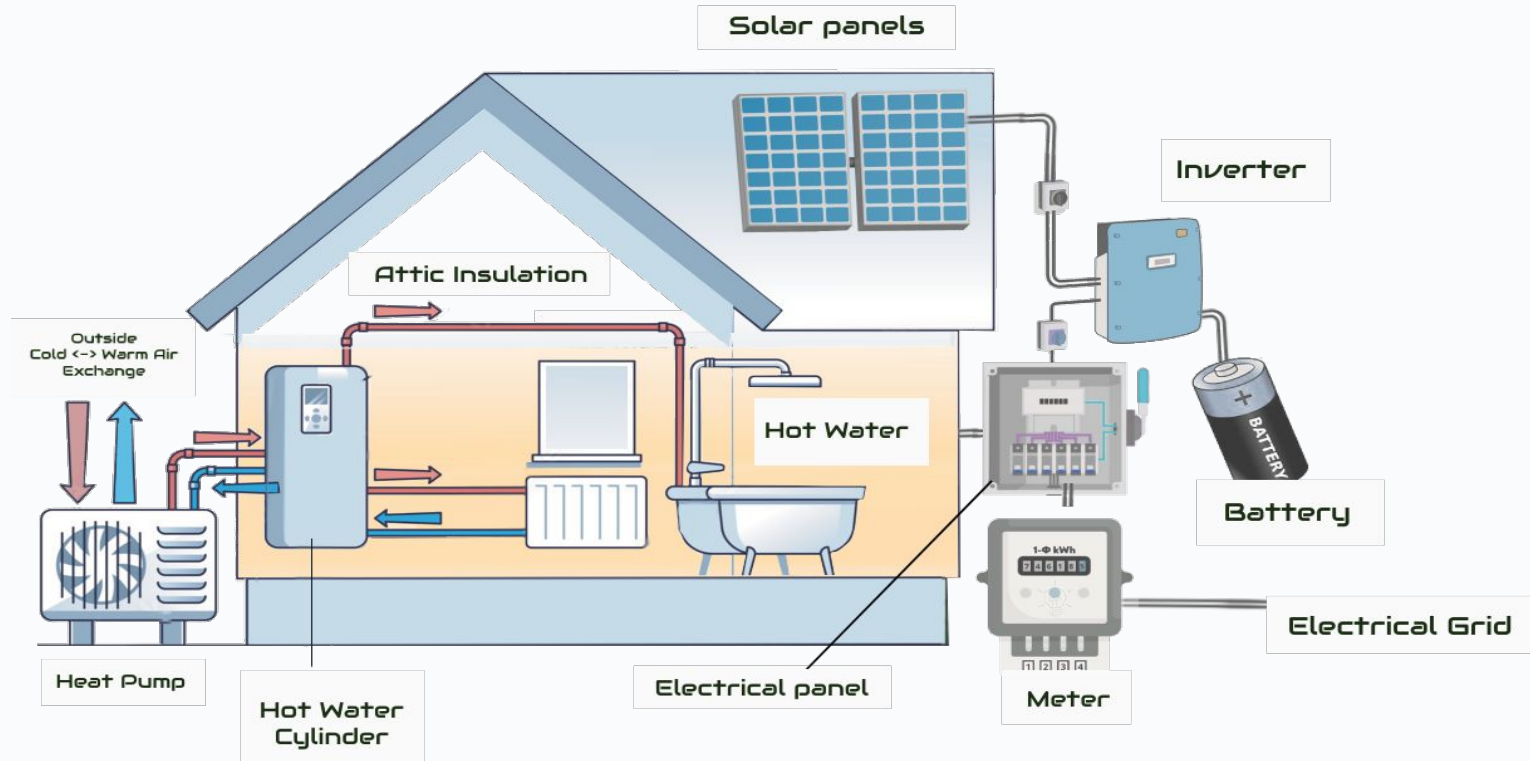
Investment Advantages: A Micro-Generation System is the only investment you will make to your property that will make you money, either by saving you from buying electricity from your provider, or by selling it back to them (CEG-Scheme). It will also add value to your property, as well as increase your BER rating.

Loan vs. Bill: Did you know that in many cases repaying a loan for your solar installation, costs the same per month as paying your monthly electricity bill?

Zero % Vat: Since the 1st of May 2023, all VAT on domestic PV-Solar installations has been cancelled. This equates to another €1500 or more!



Hybrid system

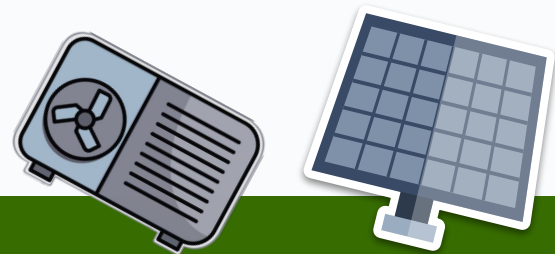


Combining heat pumps and solar panels

Combining air source heat pumps with solar panels is a great way to enhance sustainability and renewable energy practices by generating your own power to heat your home.

Indeed, finding a trustworthy installer like Solaris for your solar panels and heat pumps is crucial due to the significant investment involved. Solaris can help you manage costs efficiently while ensuring that the installation is done correctly to high standards, providing expertise and reliability for your sustainable energy solutions.

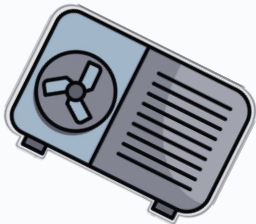
A heat pump typically uses around 3300 kWh of electricity annually in a 3-4 bedroom home in Ireland. Solaris' 4 kW solar system can generate over 4000 kWh of electricity per year. By introducing batteries and ensuring proper insulation, you can reduce the electricity demand from the heat pump, allowing more energy to power your home sustainably. This setup helps optimize energy usage, minimize reliance on the grid, and enhance overall energy efficiency in your household.





Potential savings with our hybrid system

- ADVANTAGES of heating your water at night- [click here](#).
- ADVANTAGES of installing a battery- [click here](#).





Certs and Recognitions



Solar Systems Certificate

FETAC



Heat Pump Installer Cert

DUNDALK INSTITUTE OF
TECHNOLOGY



Air Source Heat Pumps Cert

WARMFLOW



Certificate of Registration

REGISTER OF GAS INSTALLERS
OF IRELAND - REII



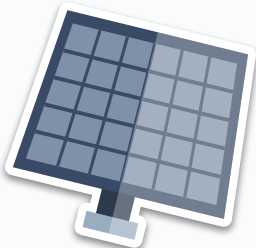
SEAI Grants

Solaris PV Heat Pumps simplifies the grant application process for customers by offering assistance with all applications. As a registered participant in the Better Energy Homes scheme for heat pumps and insulation upgrades, as well as the solar PV scheme for solar grants, Solaris ensures that all grant applications are managed efficiently by their dedicated team.

Furthermore, Solaris goes a step further to alleviate the financial burden by claiming the solar grant on behalf of their customers. This streamlines the process for homeowners, making it easier to access grants and incentives for renewable energy upgrades, ultimately promoting the adoption of sustainable heating solutions.

BER Report

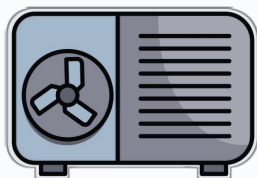
As upgrading BER Certificate is one of requirements for Successful SEAI Grant we provide it free of costs to all our clients.



Why Choose Solaris Green Energy?



- The best prices
- Premium support
- Experience
- Local company
- Premium and certified equipment
- Guarantee
- BER Report
- ESB paperwork
- Assistance with Grants (SEAI)
- €200 For successful reference



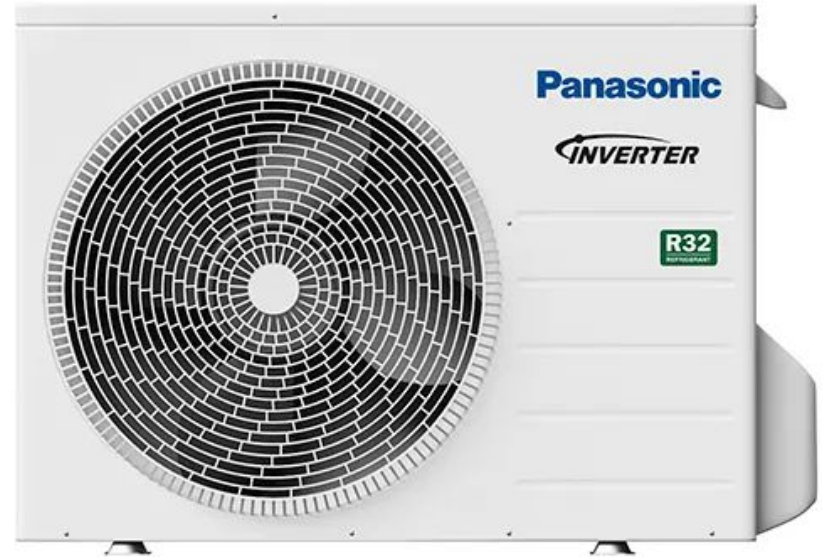
Equipment



HEAT PUMP

Panasonic manufactured heat pumps are our preferred heat pumps to install. These heat pumps are supplied by Heat Merchants, which are an Irish based company that provide great training and technical support.

They have an excellent warranty procedure if needed.





Hot Press Ariston

The Nuos Plus Wi-Fi air source heat pump water heater is the ideal solution for energy efficient hot water requirements with renewable technology. It ensures up to 80% energy saving compared to traditional electric storage water heaters and allows for temperatures of up to 62°C with the most efficient COP of up to 3.14 in the market while boasting the shortest water heating time in its category. High-quality insulation enables hot water to be kept at the desired temperature for a long period of time, saving more money on energy bills.





Solar Panels

Jolywood / Jinko / JA Solar

- Higher Efficiency
- Greater Savings
- High-quality solar panels
- Lower Maintenance and Replacement Costs
- Longer Lifespan

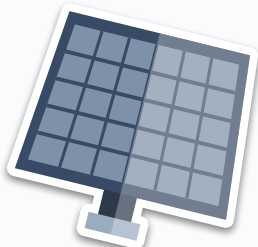




Solar Inverter

- the device which converts electricity from panels to household electricity

- **SOLIS** Hybrid inverter is our preferred inverter, which can be used independently, with or without battery **warranty**
- Ongrid model which allows connection of battery
- Certified device with guarantee
- User Friendly software for easy control of electricity consumption and distribution in a network

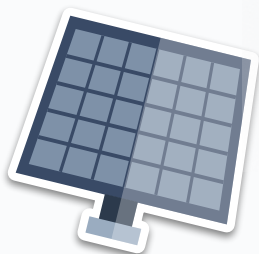


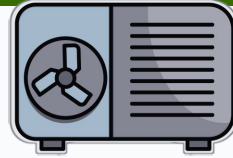
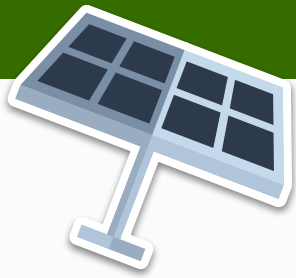


Battery storage solution Soluna is our preferred solution

- Batteries are great for storing excess electricity for usage during night

The full potential of Solar Panels is achieved with batteries because these systems are most efficient and cost effective if they are used with batteries





Warranties

Heat pumps

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Solar panels

Jolywood

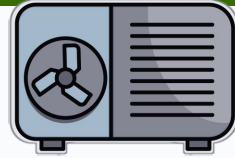
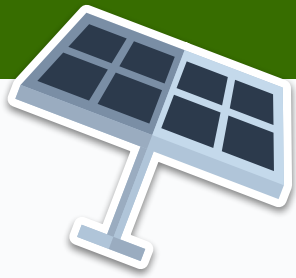
Inverters

- Solis
- Afore
- Growat
- Sofar

Batteries

- Dyness
- Pytes
- CFE or AMASS
- Growatt
- Soluna
- SunWoda





Thank You

