

ENERGY EFFICIENCY DOESN'T HAVE TO COST THE EARTH



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HYBRID ENERGY GROUP

RENEWABLE ENERGY EXPERTS



ABOUT US

With over fourteen years experience, Hybrid Energy Group is one of Ireland's leading green, renewable energy solution providers. We're built with the noble purpose of supporting and educating Irish homeowners and businesses to become more energy-efficient and understand the benefits of doing so, as renewable and green energy becomes increasingly relevant.

WHY CHOOSE US?

- ✓ National Award Winners
- ✓ 14 years experience working in both the new build and retrofit industry.
- ✓ Recommended by architects, engineers, quantity surveyors and county councils.
- ✓ SEAI approved contractor, upgraded over 2,000 homes and businesses under SEAI grants
- ✓ Local family business whose customers are our priority



OUR APPROACH

Our main priority is our customers needs and helping make their home or business energy efficient. We design bespoke plans to cater for every client, ensuring maximum energy efficiency at the best price. We provide exceptional technical support and guidance, and offer assistance with grant schemes.



CUSTOMER SERVICE IS NO 1

Our team are customer focused with a passion for helping our customers the best way we can.



SAVINGS

We help our customers save € with every renewable energy solution installed.



SUSTAINABILITY

As well as saving money, our customer reduce their carbon footprint and reduce their impact on the environment.



HEAT PUMPS

Mitsubishi Ecodan air source heat pumps are a renewable heating technology that efficiently and reliably generates sustainable space heating and hot water all year round.

The heat pump uses a similar technology to a domestic fridge, using a vapour compression cycle to generate heat. Using 1kW of electrical energy input and taking 2.2kW of low temperature renewable heat energy from the air, producing a high efficient 3.2kW heat energy output.

Heat Pumps are the most effective and cost saving alternative to gas, oil or direct electricity.

The Ecodan Air Source Heat Pumps are self contained units available in small or large sizes, and only require water and electric connections. These smart units are suitable for both the domestic and commercial markets.



BENEFITS

- Save on heating bills
- Low Maintenance
- Quiet to run
- Can be placed outside the home
- Reduce your Carbon Footprint
- Comfortable indoor environment
- Easy to control you indoor temperature, and sustain it all day and night

SEAI HOME GRANT AVAILABLE

Receive up to €6,500 off your EcoDan Heat Pump System

Receive Grant application assistance from us, alongside full technical guidance and support



SOLAR PV

Solar is a renewable, cost saving and environmentally friendly source. Solar PV panels capture sunlight, causing electrons in the panel's silicon cells to release energy that becomes direct current (DC) electricity. An inverter converts the DC into alternating current (AC) electricity, making it useable for homes and businesses. Excess electricity can be stored in a battery or fed back into the power grid.

Trina Solar are our long standing supplier of Solar PV panels.

These reliable smart systems are available to suit all homes and businesses, coming in varying sizes and power.

We will assess your property and advise you on the best Solar PV solution to suit your needs.



BENEFITS

- Our Solar PV panels produce electricity from daylight and give you a constant stream of electricity
- Save on Electricity Bills.
- Solar PV panels can also produce hot water, using surplus electricity.
- Completely Maintenance Free
- Meet Part L 2019 Building Regulations
- Easy to install
- Reduce your Carbon Footprint
- SEAI grant available

SEAI HOME GRANT & 0% VAT AVAILABLE

An average Solar PV System costs €10,080

- **VAT €2,080**
- **SEAI grant of €2,400**
- Final total = €5,600**



MECHANICAL HEAT RECOVERY VENTILATION

Mechanical ventilation heat recovery (MVHR) system is designed to extract warm stale air from a building and exchange a portion of the heat energy to the supplied fresh air. This is done by using a heat recovery ventilation (HRV) unit and a ducting system which supplies fresh filtered air to be throughout the building .

The unit is normally installed in the attic and rigid ducting supplies fresh filtered air to the habitable rooms and extracts stale polluted air from the 'wet' rooms, kitchen and bathrooms. Supply and extract diffusers are fitted to the ceilings and are adjusted to balance the system.

The unit can run automatically or can be controlled manually. All new builds must adhere to Part F 2019 requirements for ventilation with five air changes minimum per hour. With 95% thermal efficiency and up to seven air changes per hour, this unit is the ideal solution.

BENEFITS

- Up to 90% heat recovery
- Low energy usage
- Reduced energy bills
- Comfortable room temperature all year round
- Elimination of mould
- Healthy and Safe indoor air quality
- Help you achieve Part F 2019
- Essential for Passive House Certification
- Tailored for you and your homes needs

ACHIEVE PART F BUILDING REGULATIONS

Hybrid Energy Group can assist you in meeting the requirements for ventilation set out in Part F 2019.





LED LIGHTING

LED Lighting - the smartest, most energy efficient solution for your home, business and community.

We are leaders in the Petrol Station Lighting program, where we have transformed a number of petrol stations into branded landmarks and welcoming spaces inviting drivers to rest, relax and refresh. Our canopy lighting solutions deliver high vertical lighting levels, increasing customers' sense of safety and comfort which, in turn, drives brand loyalty.

A switch to LED canopy lighting can save up to 90% energy compared to conventional solutions. Optimize savings even further by adding smart energy management systems that allow light levels optimization and maintenance planning.



BENEFITS

- LED Light lifespan - 2-4 times longer lifespan
- Energy Efficiency - LED's consume very low amounts of power
- Reduced energy bills
- Improved Safety - As LED's consume less power they can operate on low voltage electrical systems
- LED's produce virtually zero UV Emissions
- LED Lights are environmentally safe

SEAI GRANT AVAILABLE

Receive commercial grant application assistance from us, alongside full technical guidance and support



WOOD PELLET STOVES

A Wood Pellet Stove is a stove that burns compressed wood or biomass pellets to create a source of heat for residential and industrial spaces.

By steadily feeding fuel from a storage container (hopper) into a burn pot area, it produces a constant flame that requires little to no physical adjustments.

We have been working with Nordica Extraflame for a decade now and they have a wide range of pellet stoves available. Sized to suit your space and room from flat screen to oval shaped. We work with your requirements.

An excellent alternative to Fossil Fuels, that won't cost the Earth.



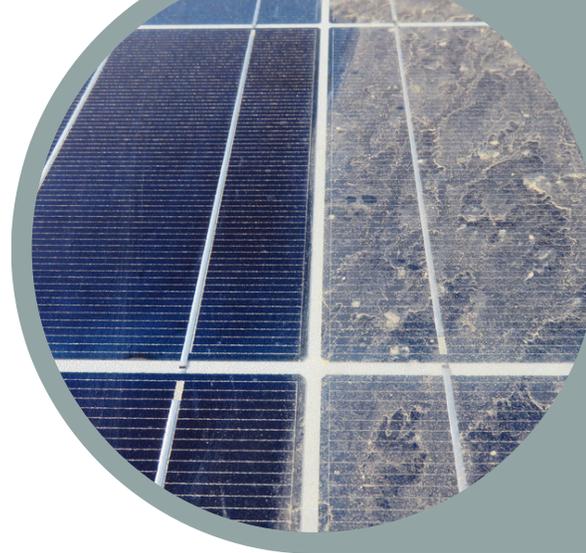
BENEFITS

- Reduced heating bills
- Dependable and efficient heating method for your home
- Greener solution than fossil fuels
- Reduce your Carbon Footprint
- Variety of designs to choose from
- Easy to use

HELP IRELAND REACH OUR CLIMATE ACTION GOALS BY CHOOSING AN ALTERNATIVE TO FOSSIL FUELS

Hybrid Energy Group are passionate about eliminating fossil fuels, and helping customer reduce energy usage and energy bills.

Enquire today to discuss your energy costs.



SOLAR PV CLEANING & SERVICING

Solar Panel cleaning is essential to ensure you get the most out of your Solar PV technology. Dirt, grime, leaves and bird droppings all affect the amount of sunlight captured by your solar panels, and therefore decrease the amount of energy generated for your home or business.

Thankfully in Ireland we have steady rainfall which can help with dust particles and light leaves, but mould, bird droppings and hardened debris will reduce your energy generation by up to 10%. Annual cleaning will maintain your solar panels to maximum energy efficiency and ensure you get your return on investment.

We clean and service both residential and commercial solar panels.

Like servicing your car yearly, maintaining your Solar PV Panels ensure they work to maximum energy efficiency. Your Solar PV panels are an expensive investment, it is essential you use an insured and trained professional to clean them.

BENEFITS

- Ensure maximum system efficiency
- Annual energy yield is high
- Reduces return on investment as you are gaining maximum energy from clean, maintained panels and inverters.
- Ensures longer life span for the panels and system as a whole

HYBRID ENERGY GROUP OFFERS ONE-OFF CLEANS ON SOLAR PV PANELS FOR AS LITTLE AS €240 A YEAR, AS WELL AS 5 YEAR AND 10 YEAR PACKAGES.

T&C'S APPLY.



HEAT PUMP MAINTENANCE

The difference in energy consumption between a well-maintained heat pump and a neglected one ranges from 25%-100%, which in turn leaves the unit working harder, decreasing the heat output and increasing your electric bills.

Yearly heat pump maintenance helps keep the system performing at its best. It also helps prevent damage to the compressor and other components, to protect your heating and cooling investment. In addition to maintaining heat pump system reliability, routine service reduces the risk of unexpected and costly repairs.

Please note manufacturers in Ireland insist on annual maintenance for system warranty terms and conditions.

Hybrid Energy Group offers annual services for as little as €249, with 5 and 10 year packages available. T&C's apply.



MAINTENANCE INCLUDES:

- Inspect ducts, filters, blower, and indoor coil for dirt and other obstructions
- Recheck settings on controller
- Glycol levels checked
- Check system pressure and verify adequate airflow
- Bleed out rads or underfloor for accumulated air
- Lubricate motors, and inspect belts for tightness and wear
- Inspect electric terminals, and, if necessary, clean and tighten connections
- Verify correct thermostat operations
- Recommission the system to work like new
- A well-maintained heating and cooling system is critical to comfort, energy efficiency, and cost-effectiveness. By scheduling professional heat pump maintenance at least once a year, you can be sure your system is optimised for the heating and cooling seasons.



COMMERCIAL GRANTS

Below you will find the latest grant available from SEAI to upgrade your business, farm, school, community centre with Solar PV panels.

Non Domestic Microgen Grant

- You can install up to 1,000kWh of Solar PV
- Grant starts with €900 off a 1kWh system with a maximum grant of €162,600 available

Example Solar PV size & Grant funding

- 7kW system = €2,700
- 15kW system = €5,100
- 30kW system = €8,600

This grant can only be administered via an SEAI appointed and register installer like ourselves. We will help with all grant administration, and ensure you get the maximum grant for the system installed, as well as having the smartest system and solution for the needs of your business.



FARMING GRANTS

Farms in Ireland can avail of the Non Domestic Microgen Grant (to the left). There is also the TAMS grant available, which is a seasonal grant, specific to farms only.

- 60% grant off total cost of Solar PV installation, up to €90,000
- Grant available on systems up to 62kW
- Open to farmers who have already received grant aid under TAMS II

You can avail of the latest TAMS grant, even if you have already received grant funding in the past.

Please check with us to see if it is available, as it only runs for 6 months of the year!

CASE STUDY: BUTLERSBRIDGE COMMUNITY HOUSING PROJECT, CAVAN COCO

Butlersbridge community housing project is a Cavan county council development which consisted of four new build houses.

The council wanted to make the homes as energy efficient as possible with high quality insulation and renewable energy technologies.

Energy solution:

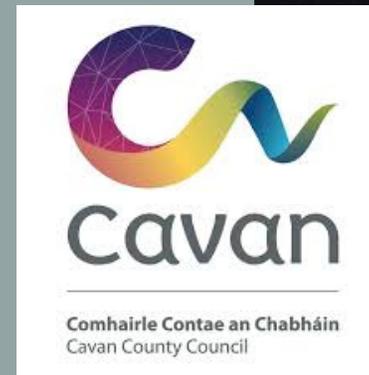
- Installation of 1.6KW PV system on each home
- 25 years guarantee with no maintenance required

Benefits and Results:

- Each PV system will produce up to 1350 kWh per annum
- 1350 units of power per annum generated for each house
- Approximately 300.00 euro savings on electricity per year
- Long term sustainability for homeowners
- Increased BER rating for each house

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'We have worked with Hybrid Energy Group on numerous projects with great success and long term benefits for all involved. It is great to work with a company so knowledgeable and passionate about energy efficiency'. -Cavan County Council member.



CASE STUDY: CLONES RENEWABLE SCHEME, MONAGHAN COCO

Clones renewable scheme is a housing project of 24 units with Monaghan county council and Lowry Construction. The council wanted to develop new low energy A-rated homes for Clones residents.

Energy solutions:

- Installation of Mitsubishi EcoDan heat pumps
- Installation of a mixture of demand control and mechanical heat recovery ventilation
- Underfloor heating
- 25 years guarantee with no maintenance required

Benefits and Results:

- Each home is A-Rated, with low energy usage and low energy bills
- The heat pump will work with the underfloor heating, and smart ventilation to ensure maximum comfort with low maintenance
- Long term sustainability for homeowners

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'The quality of work on site has been trouble-free, the choice of products has been very efficient- fit for purpose without unnecessary accessories over-spec. We welcome the opportunity to work with them again'. -Lee Williamson, Lowry Construction



CASE STUDY: MIDLANDS RETROFIT PROJECT, LONGFORD COCO

The midlands retrofit project in Ballinalee, with Longford county council and CS Pringle, consisted of energy upgrades to 24 homes.

The council wanted to make the homes as energy efficient as possible with high quality insulation and renewable energy technologies.

Energy solution:

- Installation of Mitsubishi EcoDan heat pumps
- Installation of a mixture of demand control and mechanical heat recovery ventilation
- Underfloor heating
- 25 years guarantee with no maintenance required
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Benefits and Results:

- Each home is A-Rated, with low energy usage and low energy bills
- The heat pump will work with the underfloor heating, and smart ventilation to ensure maximum comfort with low maintenance
- Long term sustainability for homeowners
- Increased BER rating for each house

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'Retrofit projects are awkward in that every house poses different challenges & Hybrid Energy Group worked admirably with CS Pringle and Longford County Council to successfully overcome all of the challenges faced on site'. -Kieran O'Reilly, CS Pringle.



CASE STUDY: WOODSIDE MUSHROOM FARM, CO CAVAN

An Energy Audit first began on the farm in 2009, with Hybrid Energy Group designing a bespoke energy efficiency plan to reduce energy load, reduce costs and carbon emissions. Since 2009 we have revisited the farm twice and upgraded further measures.

Energy solutions:

- Installation of a Biomass heating system using wood pellets.
- 50 KW PV system installed
- Heating upgrade in 2015, to double size of KW, and upgrade 5 tonne pellet bin to 30 tonne.
- Design and Installation of rain water harvesting system

Benefits and Results:

- The Farm has cut its energy bills by 42% FOREVER
- 50 KW of PV is allowing the farm to be almost fully self sufficient
- Heating bills reduced by 48%
- 50% Farm Investment Grant
- Water consumption decreased by 32% annually
- Reduced Carbon Footprint
- Future Proof Farm for the next generation

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*'In the first year Micheal and his team helped us to reduce our heating and electricity usage, and as the farm grew we needed them back again to help us create more efficiencies. I would highly recommend them as they have helped us plan for our long term future in farming'.
-Cathal Reilly, Farm Director.*



CASE STUDY: TEXACO, DUBLIN ROAD, CO.CAVAN

As one of the busiest filling stations in Cavan, Texaco used a lot of electricity for lighting and heating.

The company owner wanted to improve their energy efficiency, reduce costs, and lower their carbon emissions.

Energy solutions:

- 11KW PV System by Trina Solar was installed
- The 11KW installation incorporates 40 x 250 watt panels fixed to the flat-roof of the building
- All lights were upgraded to LED Lighting

Benefits and Results:

- This PV installation will offset approximately 10,000 kwh of electricity per annum
- 25 years guarantee with no maintenance required
- The LED lighting has reduced Texaco lighting bills by 60% per annum and require virtually no maintenance for up to 10 years.
- Approximately €1500.00 savings on electricity per year
- Dramatically reduced carbon emissions



'We saw the great work Hybrid Energy Group done with other filling stations in Cavan and wanted to upgrade our energy efficiency and lower bills. Our costs have decreased, especially for electricity, but we also have a great new bright forecourt.'

-Philip Kiernan, Texaco Director.



CASE STUDY: MULTIPLE MEASURE RETROFIT, CO CAVAN

Climate conscious customer Bernard contacted Hybrid Energy Group to discuss a new heating system, and after years of a new wood pellet stove, Bernard installed a heat pump, solar PV, and electric car charger.

Energy solutions:

- Solarfocus wood pellet boiler along with a buffer tank and Solar Thermal system
- 3.5KW Solar PV panels
- Solar iBoost battery storage and booster
- 14kw Zubadan Mitsubishi Electric heat pump
- Electric car charger

Benefits and Results:

- Generation of their own electricity and hot water
- Reducing their electricity bills overall
- Power created for electricity usage and to heat hot water
- Elimination of fossil fuels in the home
- Huge reduction in carbon emissions
- Electricity bill in September 2021 was €7.36 for a home, and two electric cars.
- Increase the buildings BER rating and increase property value
- Reduced Carbon Footprint with this sustainable carbon-free energy solution



CASE STUDY: SOLAR PV AT ICE CREAM TREATS

As a leading ice-cream manufacturer in Ireland, based in Killeshandra, Co Cavan, and with plans for expansion, Ice cream treats wanted to reduce their energy bills, and more importantly reduce their carbon emissions and environmental impact.

Energy solutions:

- 11KW PV System by Trina Solar was installed
- The 11KW installation incorporates 40 x 250 watt panels fixed to the flat-roof of the building

Benefits and Results:

- This PV installation will offset approximately 10,000 kwh of electricity per annum
- 25 years guarantee with no maintenance required
- Approximately €1500.00 savings on electricity per year
- Dramatically reduced carbon emissions by 6,684kg per annum

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'Micheal and his team installed the 11kw of Solar PV, & a monitoring system where we can see daily what electricity the panels have generated. The whole process was seamless from start to finish. They have saved us around €1500 a year in electricity, and 557kg of carbon emissions per month which is the stand out figure for us.

-Gerry Sheridan, Founder



CASE STUDY: DOMESTIC MULTIPLE MEASURES UPGRADE, CO CAVAN

This homeowner wanted to upgrade their homes energy efficiency to reduce their excessive energy bills, and to play their part in helping the environment.

Energy solutions:

- 7.2KW Solar PV System, 18 solar panels
- 6kW Huawei hybrid inverter
- Zappi electric car charger
- 14kW Mitsubishi Electric EcoDan heat pump.

Benefits and Results:

- On average 5,010kWh of energy generated per annum, with the average Irish household requiring 4,200kWh
- Reducing their electricity bills overall
- Power created for electricity usage to power the heat pump, and to power the electric car charger
- Elimination of fossil fuels in the home
- Huge reduction in carbon emissions by approximately 4,374kg per annum
- Increase the buildings BER rating and increase property value

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"From the initial survey to completion I found the whole team including the support from the office second to none. Dedicated , professional bunch of people. Very highly recommended.

-Dr Butt, homeowner



GREEN FINANCE WITH CAVAN CREDIT UNION

Hybrid Energy Group are partnering with *Cavan Credit Union* to offer finance options for all our customers.

We understand switching to renewable energy can be costly, even with grant funding, and with Cavan credit union and the greenify finance options, you can avail of loans with affordable interest rates.

Greenify is a home energy upgrade loan that offers:

- Loans up to €50,000 over 10 years
- Unsecured lending
- There is no need to be an existing credit union member
- Variable interest rate of 6.50%, (typical APR 6.70%)

Why Greenify:

- Trained and experienced Loans Team
- No administration, arrangement or set up fees
- Loan insurance at no added cost to eligible members
- No penalties for early repayment
- Flexible repayment options



HOW DO I APPLY?

If you are an existing registered member, you can make a full application online.

Alternatively, you can go in to the office or call and discuss your needs and proceed with your loan application.

Call the office on 049 4331715 and a member of the credit union team will talk you through the required documentation based on your own circumstances, and email / post you the list.

www.cavancu.ie

BUSINESS ACCREDITATIONS & MEMBERSHIP



Business All Star Accreditation

Hybrid Energy Group Ltd was awarded with the coveted Business All-Star Accreditation for Renewable Energy Company of the year for 2023, 2nd year running. All-Ireland Business Foundation is responsible for identifying and accrediting best-in-class Irish businesses.



Small Firms Association Awards Winner

We won the Workplace Wellbeing Award in 2021, as well as becoming finalists in the sustainability category also. In 2018 we were recognised for our work in innovation and excellence for Most Innovative Small Business.



ISO 9001 Certified

We are pleased to announce we are now ISO 9001:2015 certified in Quality Management. This standard means a lot to us as quality is at the heart of what we do with our customer care, products, and services. As a leader in renewable energy, we are delighted to add this accreditation to our company.



Guaranteed Irish Members

Proud to be Irish and carry the Guaranteed Irish mark. A symbol which provide quality jobs, support local communities and are committed to Irish provenance. We are proud to be #AllTogetherBetter choices for communities across Ireland.



Cavan Business and Tourism Awards

In 2018 we were recognised for our innovation in renewable technologies at the Cavan Business and Tourism Awards 2017/18 for Most Innovative Business of the Year.



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**RENEWABLE
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