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# Demand Flexibility change your energy use!



## **Demand Flexibility**















This guide was created to complement the Home Energy Saving Kit, which is available to borrow freeof-charge from a selection of public libraries across Ireland.

For more information and to download this guide, go to www.codema.ie/energysavingkit.





### **FABRIC FIRST APPROACH**



- Don't know where to start? Get a **BER** assessment of your home
- It will provide you with a roadmap to achieving a minimum B2 BER energy rating
- You will find a list of registered BER Assessors @ <u>www.seai.ie</u>



## **FABRIC FIRST APPROACH**



• Next insulate your home and keep your valuable heat in!

- You may also need to replace old windows and doors to improve insulation
- SEAI offers homeowners insulation grants ranging from up to €1,500 for attic insulation, up to €1,700 for cavity wall insulation and up to €8,000 for external wall insulation

Insulate





## Benefits of a Home Energy Upgrade

#### Comfort



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Enjoy a warmer, cosier and healthier home by upgrading your insulation and adding renewables

#### Savings

Save on energy bills by using less energy and adding renewable energy to your home

#### Environment

Reduce your emissions and your carbon footprint with an energy efficient B2 home

#### Value



Seal Sustainable Seal Chergy Autho

## **FABRIC FIRST APPROACH**



- Heat pump a highly efficient alternative heating system to fossil fuel oil or gas boilers
- Solar PV renewable electricity and save on your energy bills
- Solar thermal systems designed to meet 50-60% of hot water needs.
- SEAI offers grants for all three technologies.

Add Renewables













#### BER**WUW**

Use BERWOW Energy Upgrade Calculator to explore options for your home & then book a survey with our technical advisors

Get recommendations for your home using your existing BER cert or choose to use BER data for a home like yours.

To get recommendations based on your home using your existing BER certificate, you will you need to provide the following:

- Your MPRN (printed on your electricity bill),
- A recent utility bill (within the last 3 months) with your address and MPRN on it

If you don't have the above or **do not have a BER**, don't worry as **you can still get recommendations** based on BER information of homes similar to yours.



D	to you acknowledge (and agree with) the following?
A	II information and reports generated by the BERWOW Calculator are indicative only and are generated solely for nformational purposes.
T te G	he information and reports generated are not intended to replace an in-house survey or other specific commercial, finan echnical, or other professional advice. Actual costs and energy savings will depend upon various factors outside the contr famma Location Intelligence Ltd control and BERWOW Ltd control, for which neither Gamma Location Intelligence Ltd n JERWOW Ltd is liable.
	Yes No
A	uddress or Eircode

BER <b>WoW</b>	Recommendations Financial details Carbon F	ootprint BER Map ?
A1 A2 A3 B2 C1 C2 C3 C3 D1 D2 C2 C3 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4 C4	Estimated Cost     Project Cost     SEAl Grant     SSE Discount     Net Project Cost     Net Project Cost (Including interest)     All prices include VAT	€64,100 €13,900 €1,966 €48,234 €48,234
No Loan	~	
Own funds Monthly Loan Repayment		€48,234 €0
Project Outlay - 10 Year View		
Gross Monthly Outlay Estimated Monthly Energy Savings		€402 €280
Net Monthly Cost		€122

Age of Home - 60 - 70 years (1950's)  I don't know the age of the house  Number of Storeys	
I don't know the age of the house	
I don't know the age of the house	
Number of Storeys	
	1 2+
House type	
Semi Detached +	
Select House Typology	
1950 to 1966 Semi Detached 2	



RECOMMENDED MEASURES	ESTIMA	SAVING	5 COMFORT	DETAILS
Roofs Insulating existing roofs	E	4,400 <b>eeee</b>	C	Already
Attic Insulation - 200mm S Add 200mm on top of joists	€1,150	0000	****	upgraded
Flat Roof Insulation      Warm roof	€3,250	<b>6666</b>	****	
Walls Insulating existing walls	€2	6,150 <mark>€€€€</mark>	C *****	$\bigcirc$
External Wall Insulation	€25,950	66600	****	Already upgraded
External envelope				
Internal Wall Insulation Insulated on the inside	€17,150	66666	****	







## Seal Sustainable Energy Authority OF IRELAND GRANTS









Apartment	Median works cost €22,914	Average BER improvement	Key Figures	One Stop
	Median grant amount €6,100	Typical upgrades: • Heat pump • Windows and doors • Wall insulation	30% received energy upgrades at a cost of	Shop Service
	€16,814		>€75,000	average costs
Mid Terrace	Median works cost €50,889	Average BER improvement	41% received	and grants
II.	Median grant amount €18,800	Typical upgrades: • Heat pump • Windows and doors • Wall insulation	at a cost of €50,000- €75,000	
	€32,089	Ceiling insulation     Ventilation		€33.000
Semi-D/End Terrace	Median works cost €62,485	Average BER improvement	22%	
	Median grant amount €21,000	Typical upgrades: • Heat pump > • Windows and doors • Wall insulation	received energy upgrades at a cost of	Data based upon average costs
	€41,485	Ceiling insulation     Solar panels     Ventilation	€30,000- €50,000	for 929 private homes completed through the National Home Enerav Uparades Scheme (Dec
Detached	Median works cost €66,503	Average BER improvement	6% received energy upgrades	2024) Median is the mid-point of all the upgrade costs, where half
	Median grant amount €23,200	Typical upgrades: • Heat pump • Windows and doors	at a cost of <€30,000	of upgrades are less expensive, and half of upgrades are more
	Median cost to homeowner €43,303	Wall insulation     Ceiling insulation     Solar panels     Ventilation	Average BER uplift	Seal Sustainable Biethority



#### 2024 Home Energy Upgrade Costs: Analysis of 37,681 Projects

External Wall Insula	ition	
HOUSE	MEDIAN	FIXED
Detached	€24,305	€8,000
Semi-D / End Terrace	€22,000	€6,000
Mid Terrace	€12,547	€3,500
Apartment	€16,000	€3,000
Cavity Insulation		

MEDIAN

COST

€2,241

€1,600

€1,090

€784

HOUSE

Detached

Mid Terrace

Apartment

Semi-D / End Terrace

TYPE

FIXED GRANT

€1,700

€1,200

€800

€700

Internal Wall Insula		
HOUSE TYPE	MEDIAN COST	FIXED GRANT
Detached	€10,000	€4,500
Semi-D / End Terrace	€10,069	€3,500
Mid Terrace	€6,139	€2,000
Apartment	€2,950	€1,500

Roof Insulation		
HOUSE TYPE	MEDIAN COST	FIXED GRANT
Detached	€2,470	€1,500
Semi-D / End Terrace	€1,900	€1,300
Mid Terrace	€1,800	€1,200
Apartment	€1,600	€800



Levelised Cost of Electricity (LCOE) of a solar photovoltaic system.

LCOE is a way to help decide if solar panels are a good investment compared to sticking with your current electric supply.

1. You pay **€8,600** for your solar panel system

2. Each year, they make **4,250 units**, (kWh) of electricity

3. The panels can make electricity for 20 years

4.Degradation Factor = 0.95 (panels will work a bit less well as they get older)

LCOE= Total Cost of Solar Panels
Annual Generation×Number of Years×Degradation Factor

seal

Using these values, your **LCOE** is calculated to be €0.11/kWh.

Average cost of a standard unit of electricity €0.38/kWh

#### Solar Electricity - Photovoltaics (Solar PV)

Grant name	Value	Example
Solar PV grant	€800 per kWp up to 2 kWp	€1600 for 2 kWp solar panel
	€250 for every additional kWp up to 4kWp Total solar pv grant cap at €2100	€1850 for 3 kWp solar panel €2100 for 4 kWp solar panel
Domestic Grants		
All homeowners, including Home built and occupied I No previous funding for So	j private landlords. sefore 31st December 2020. slar PV at this MPRN.	
		seal
	The grant is payed pro rata basis e.g. for a 2.	5 kWp grant value would be €1.725









#### The Energy Master Plan will help you



Calculate how much energy your SEC uses (Energy Baseline)

Provide a Roadmap for how your SEC can reduce its overall Energy and CO2 emissions

Identify a Register of Opportunities for you SEC

Sustainable Energy Communities F











