



seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

KSNEnergy

34

DÚN LAOGHAIRE-RATHDOWN SEC MENTOR

Gavin Harte
gharte@ksncommunities.ie
(086) 828 0978

dlr
Comhairle Contae County Council

The block includes a map of the Dublin region with the number 34 in a green circle. A QR code is located next to the contact information. A small illustration of a sustainable community is at the bottom right.

KSNEnergy

294
Sustainable Energy Communities

Our **SEC** team consists of 9 skilled and experienced community facilitators, each bringing a diverse array of technical and community-focused expertise.

Together, we are dedicated to delivering high-quality energy support services, enhancing the skills and knowledge of SEC communities in the region.

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

The block features a map of the Dublin region with circular callouts for each local authority: MEATH, FINGAL, DUBLIN CITY, DÚN LAOGHAIRE RATHDOWN, WICKLOW, SOUTH DUBLIN, and KILDARE. Each callout contains a portrait of a team member. A large green circle with the number 294 is positioned above the map.

KSNEnergy



seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

Sustainable Energy Communities Programme



Link to the SEC dashboard



seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

Sustainable Energy Communities Programme

A community that works together to develop a sustainable energy system for the benefit of the community

- Aiming to be as energy efficient as possible;
- Use renewable energy where feasible;
- Consider smart energy solutions

Communities of active energy citizens will lead the societal transformation to a low carbon future

An SEC can be as small as a street or as large as a county or region



OVER 1100 COMMUNITIES

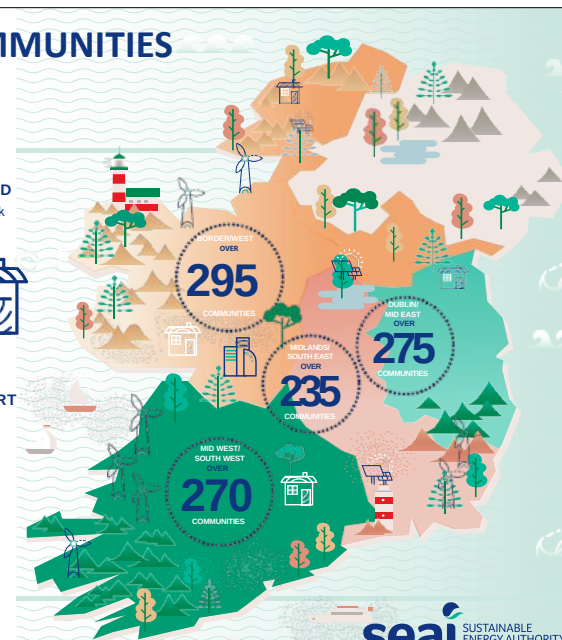
MORE THAN 50,000 CITIZENS ENGAGED
Part of SEAI's Sustainable Energy Communities Network

189 ENERGY MASTERPLANS COMPLETED

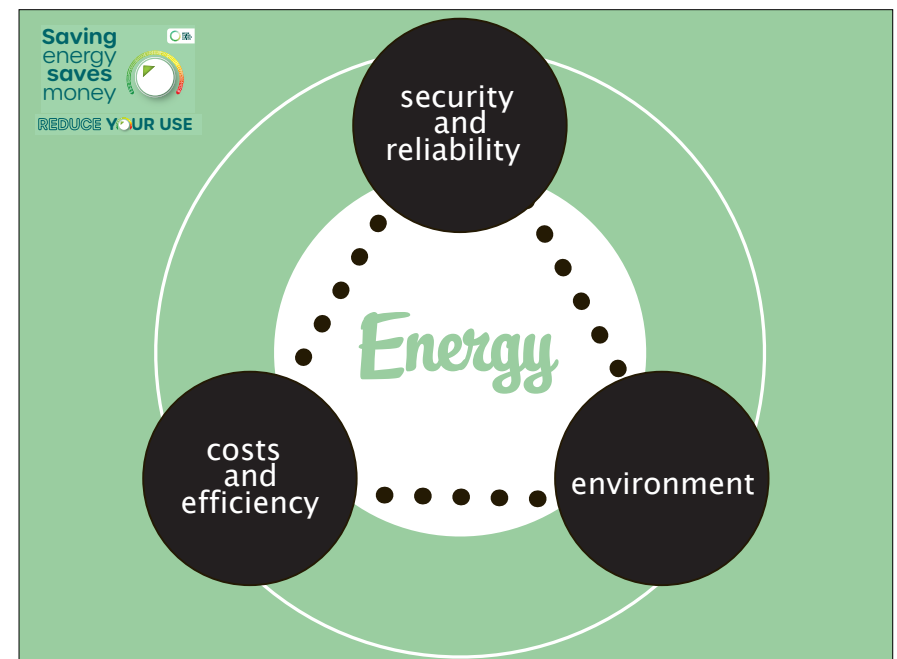
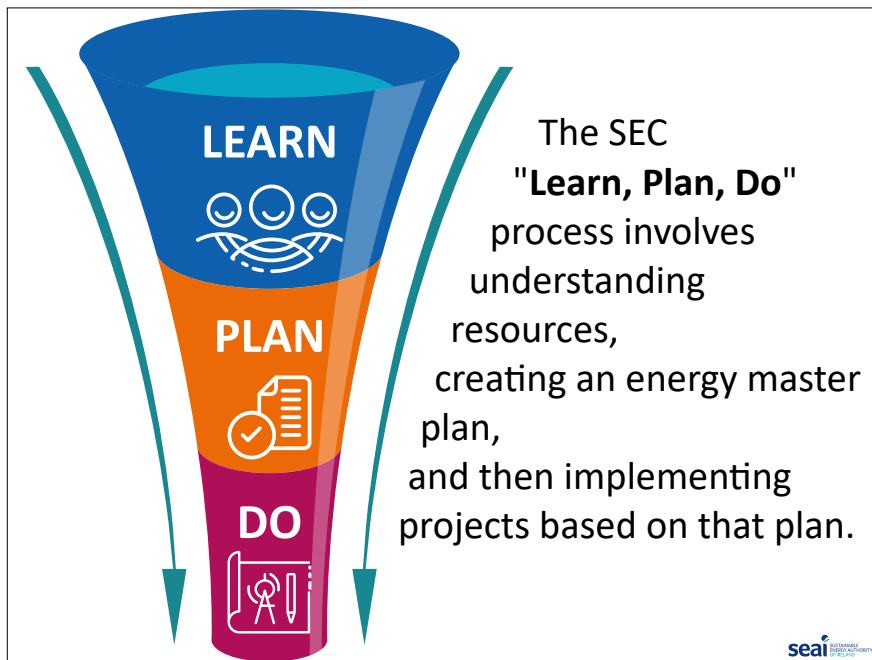
24 LOCAL AUTHORITIES BRIDGE FUNDING SUPPORT

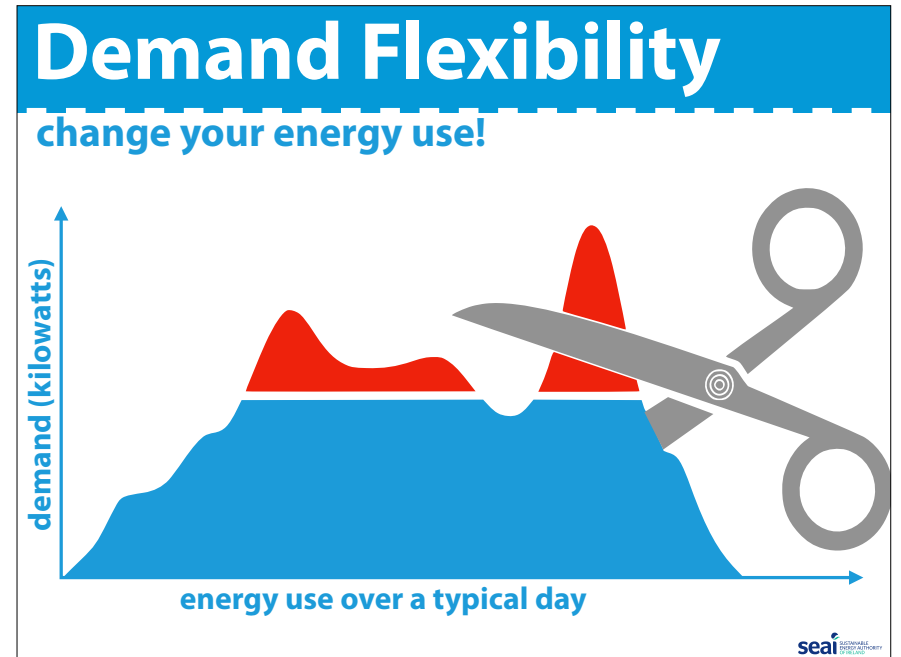
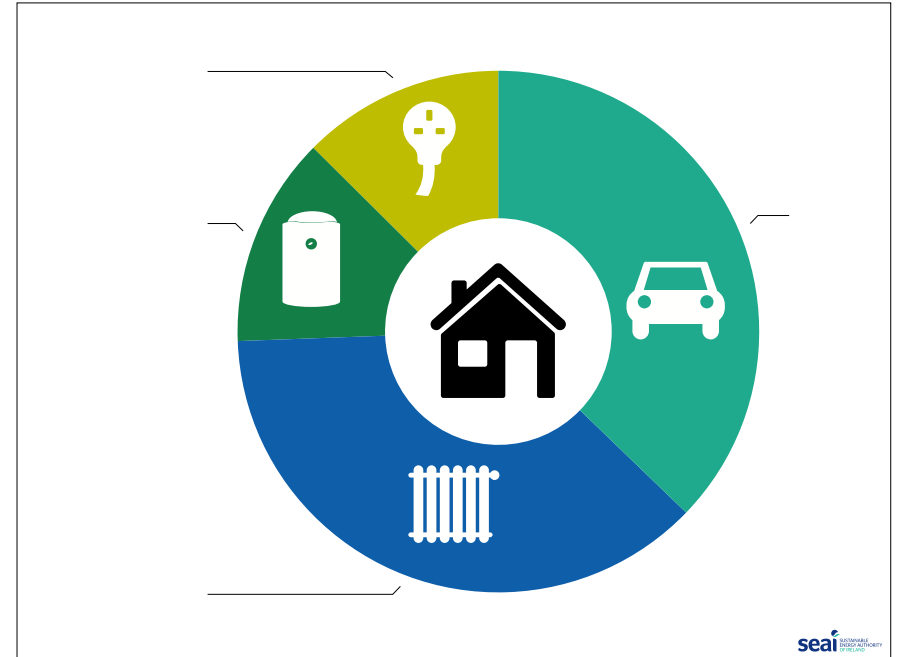
100 COMMUNITIES
Are currently working on their Energy Master Plans

Find out more at www.seai.ie/sec



seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND



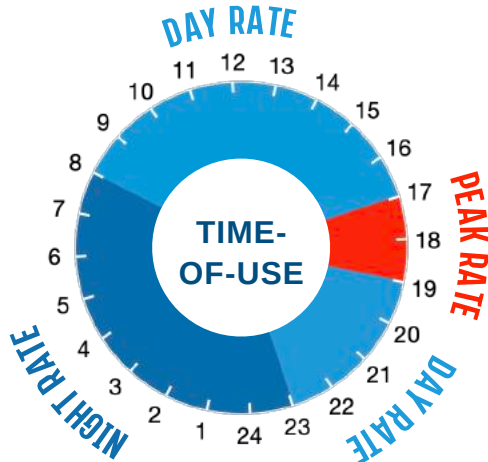


Is this a good time to use your dishwasher?




Demand Flexibility

change your energy use!



- Try to use energy outside peak times. 
- Take "control" of your heating and hot water system. 
- Check to see if the wind is blowing! 

Dynamic Electricity Pricing Plans

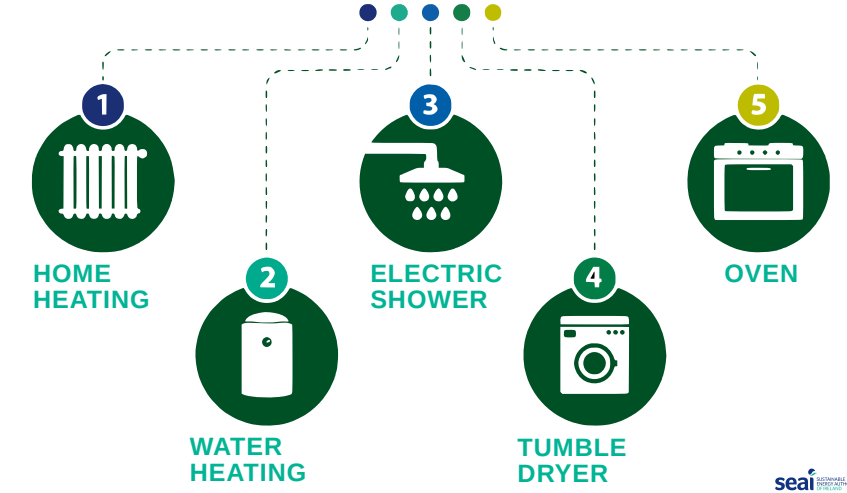
are coming to the Irish electricity market this year



This means when electricity is cheaper on the grid, it will also be cheaper for you to buy.

WHAT APPLIANCES USE THE MOST ENERGY IN YOUR HOME

TOP 5



- HOME HEATING
- WATER HEATING
- ELECTRIC SHOWER
- TUMBLE DRYER
- OVEN

seai SECTOR ENERGY ACTION INITIATIVE

UCD Energy Calculator

**Use Your Smart Meter Data
to Save on Your Energy Bills**
A price comparison that is
specific to **your energy
usage habits**



Home Heat Loss and Energy Use

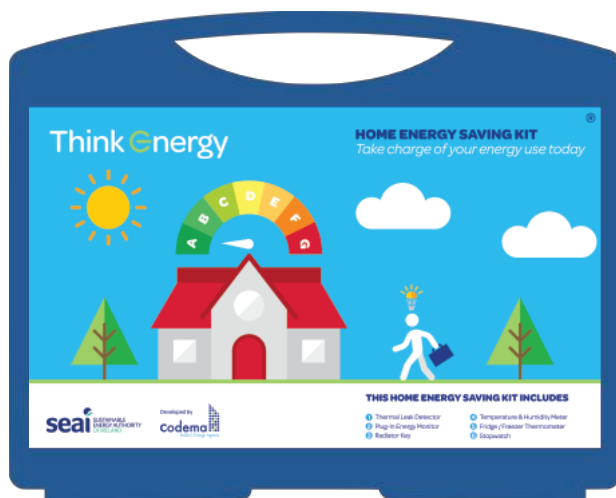
Where you lose heat in your home...



Roof 30%
Air infiltration 10%
Walls 30%
Doors and windows 10%
Floors 20%

seai

Home Energy Saving Kit



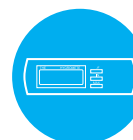
Understanding Home Energy Use



Thermal Leak
Detector



Plug-In Energy
Monitor



Temperature &
Humidity Meter



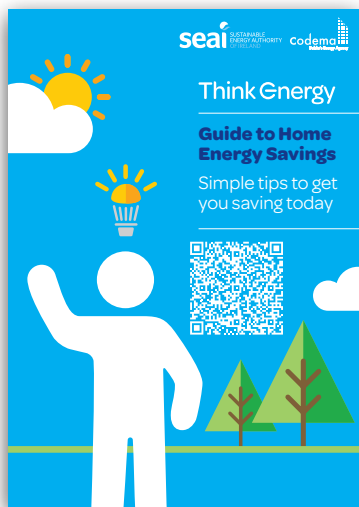
Radiator
Key



Fridge/Freezer
Thermometer



Stopwatch



This guide was created to complement the Home Energy Saving Kit, which is available to borrow free-of-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



FABRIC FIRST APPROACH



Assess

- 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 @ www.seai.ie



FABRIC FIRST APPROACH



Insulate

- 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



FABRIC FIRST APPROACH

3.



- 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



seai

Benefits of a Home Energy Upgrade



Comfort

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

Increase the value of your property by upgrading your home to a B2 rating or higher



seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND



Home Energy Assessment



The HEA
is a key
component in
the retrofit
journey for
homeowners





BERWOW

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 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.

My BER

Typical Irish homes

BERWOW

Do you acknowledge (and agree with) the following?

All information and reports generated by the BERWOW Calculator are indicative only and are generated solely for informational purposes.

The information and reports generated are not intended to replace an in-house survey or other specific commercial, financial, technical, or other professional advice. Actual costs and energy savings will depend upon various factors outside the control of Gamma Location Intelligence Ltd control and BERWOW Ltd control, for which neither Gamma Location Intelligence Ltd nor BERWOW Ltd is liable.

Yes

No

Address or Eircode

Search for an address

Search

See your recommendations

BERw@W

Age of Home - 60 - 70 years (1950's)

☐ 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 Storeys



BERw@W Recommendations Financial details Carbon Footprint BER Map ?

Estimated Cost

Project Cost €64,100

SEAI Grant €13,900

SSE Discount €1,966

Net Project Cost €48,234

Net Project Cost (including interest) €48,234

All prices include VAT

Loan Type

No Loan

Own funds €48,234

Monthly Loan Repayment €0

Project Outlay - 10 Year View

Gross Monthly Outlay €402

Estimated Monthly Energy Savings €280

Net Monthly Cost €122

RECOMMENDED MEASURES	ESTIMATED COSTS	SAVINGS	COMFORT	DETAILS
☒  Roofs Insulating existing roofs	€4,400	€€€€€	*****	⌵
☒  Walls Insulating existing walls	€26,150	€€€€€	*****	⌵
☒  Windows & Doors Upgrading windows & doors	€17,250	€€€€€	*****	⌵
☒  Heating & Controls Heat pump / boiler & controls	€16,300	€€€€€	*****	⌵
☐  Ventilation & Air Tightness Mechanical Ventilation & Air Tight envelope	€4,100	€€€€€	*****	⌵
☐  Renewables Add solar panels	€8,500	€€€€€	*****	⌵

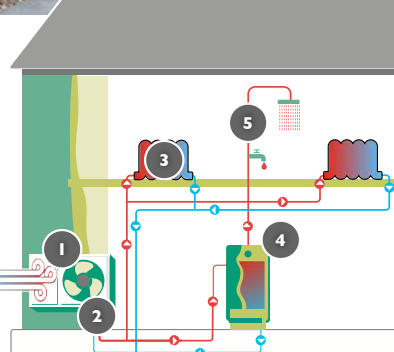
RECOMMENDED MEASURES	ESTIMATED COSTS	SAVINGS	COMFORT	DETAILS
☒  Roofs Insulating existing roofs	€4,400	€€€€€	*****	⌵ Already upgraded
☒  Attic Insulation - 200mm Add 200mm on top of joists	€1,150	€€€€€	*****	☐
☒  Flat Roof Insulation Warm roof	€3,250	€€€€€	*****	☐
☒  Walls Insulating existing walls	€26,150	€€€€€	*****	⌵ Already upgraded
☐  External Wall Insulation External envelope	€25,950	€€€€€	*****	☐
☐  Internal Wall Insulation Insulated on the inside	€17,150	€€€€€	*****	☐
☒  Cavity Wall Insulation Cavity fill	€200	€€€€€	*****	☐



Heat Pumps

the future of home heating

Scan to sign up to the SEAI heat pump e-zine

- 1 The heat pump pulls in heat from the air outside your home.
- 2 This air is compressed to increase the temperature which is then used to heat water.
- 3 This warm water is transferred into your home to provide heat through radiators or under floor heating.
- 4 This warm water heats the water in your cylinder.
- 5 And provides constant hot water.

A homeowners guide to Heat Pumps.



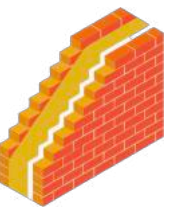

Cavity Wall Insulation

Method: Injecting bonded beads or fibre into wall gap.

Pros: Cheapest wall option, quick (1 day), invisible, minimal mess.

Cons: Requires an existing empty cavity.

Grant: €700 (Apt) to €1,800 (Detached).



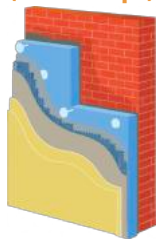
External Insulation ("The Wrap")

Method: Rigid slabs fixed outside, covered in render/cladding.

Pros: "Rolls Royce" solution, zero internal mess, protects brickwork.

Cons: Expensive, may need planning permission.

Grant: €3,000 (Apt) to €8,000 (Detached).



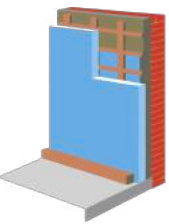
Internal Dry Lining

Method: Fixing insulated board to inside walls.

Pros: Cheaper than external, good soundproofing.

Cons: Loses floor space, messy install (radiators move), "Building Site" feel.

Grant: €1,500 (Apt) to €4,500 (Detached).



Attic & Rafter

Attic (Ceiling): Insulation on floor. Cold attic space. Cheapest option.

Rafter (Roof): Insulation between timbers. Warm attic. For converted rooms.

Rule: Storage only? Do Attic. Sleeping/Office? Do Rafter.

Depth: Standard attic wool must be ~300mm deep.



Homeowner guides to wall, attic and rafter insulation





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)

$$\text{LCOE} = \frac{\text{Total Cost of Solar Panels}}{\text{Annual Generation} \times \text{Number of Years} \times \text{Degradation Factor}}$$

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

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



A homeowners guide to Solar PV



NEWS FLASH



Windows & Doors!



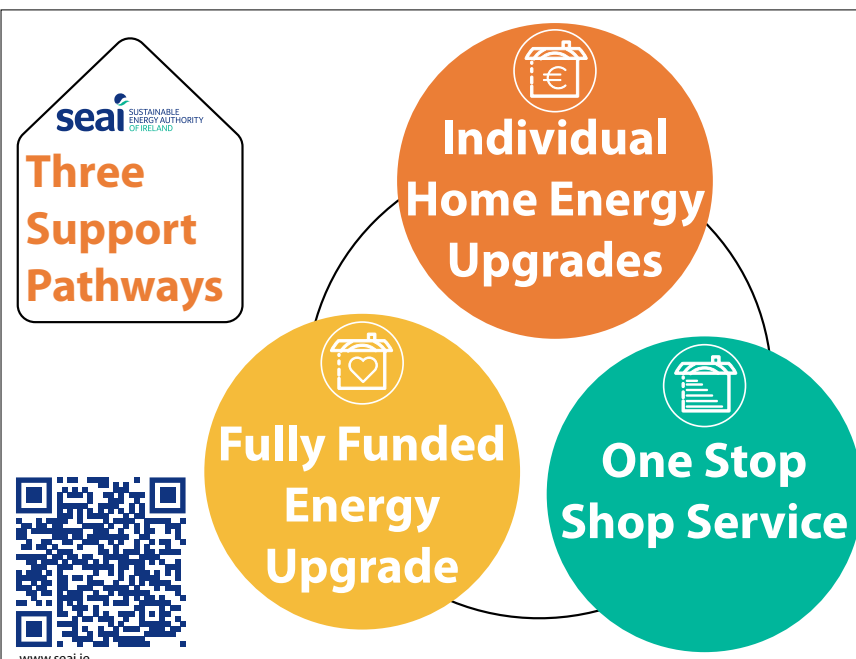
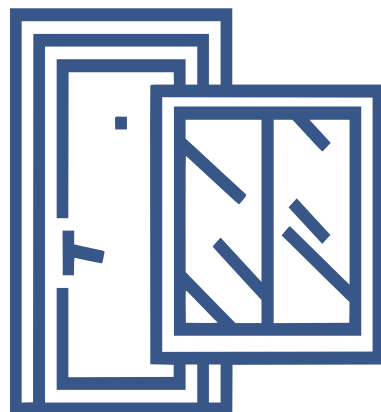
NEW GRANTS - Lots of Interest in This One!

New Windows & Doors Grant:

House built before 2011.

Grant Amounts: Windows up to €4,000 (Detached), Doors €800 per door (max 2).

CRUCIAL: Must meet U-value of 1.4 W/m²K or lower and HLI of 2.3 W/m²K or lower post-installation. Consult a professional before work.

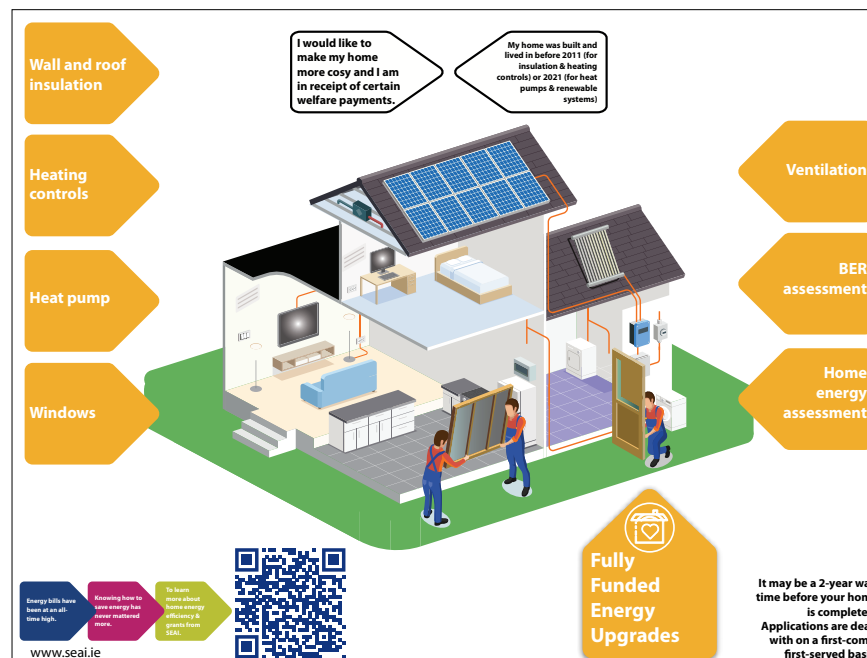
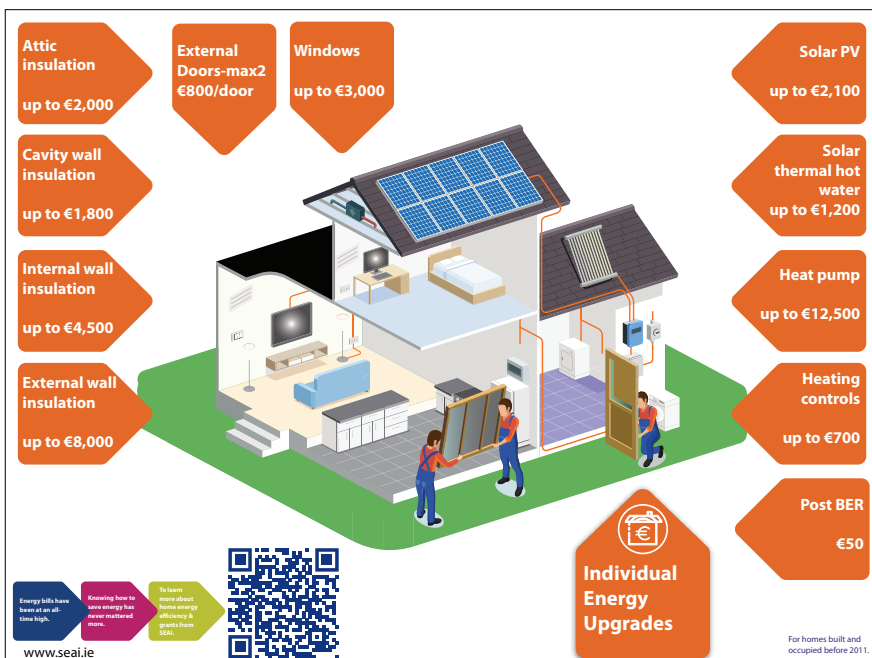
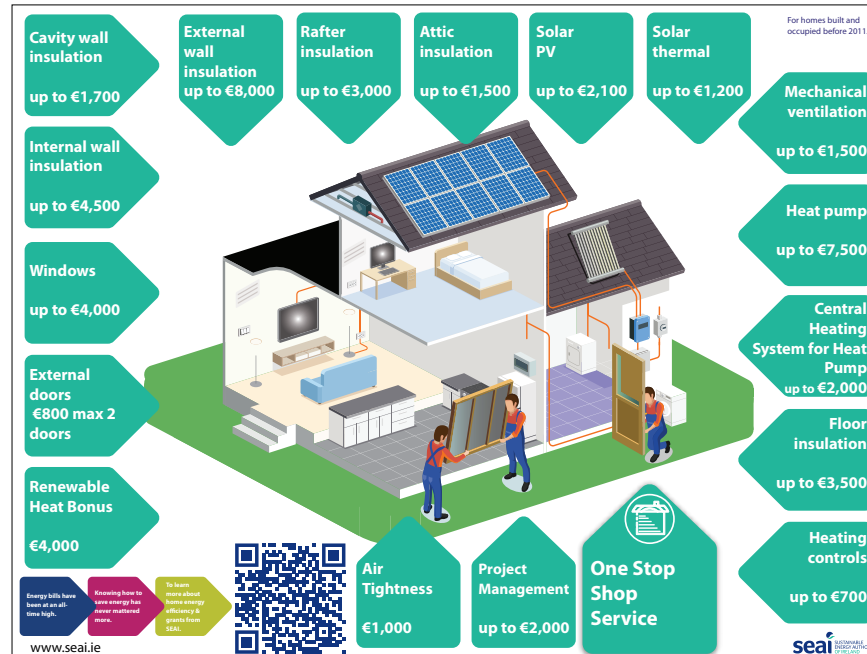


Individual Energy Upgrade Grants	One Stop Shop Service B2	Fully Funded Energy Upgrade
Selection of individual grants for home energy upgrades	A complete home energy upgrade solution	For qualifying homeowners
Part funded with SEAI grants	Part funded with SEAI grants	Funded by SEAI
Homeowners manage their upgrades:	Managed by a One Stop Shop including:	Managed by SEAI and includes:
- contractor selection - grant application - contractor works - follow up BER	- home energy assessment - grant application - project management - contractor works - follow up BER	- home survey - contractor selection - contractor works - follow up BER
Who this is for	Who this is for	Who this is for
Homeowners & landlords who want	Homeowners & landlords who want	For qualifying homeowners in receipt of certain welfare benefits:
- individual energy upgrades - to manage their own project - to apply for the grant themselves - to pay for full cost of works and claim grants afterwards	- multiple energy upgrades - to upgrade to a minimum B2 BER - a fully managed solution including grant applications - to pay for the works net of eligible grant	- Fuel Allowance - Job Seekers Allowance for over six months with a child under 7 - Working Family Payment - One-Parent Family Payment - Domiciliary Care Allowance - Carers Allowance - Disability Allowance

	National Home Energy Upgrade Complete one stop shop home energy upgrade	Better Energy Homes & Solar PV Individual energy upgrades	Warmer Homes Scheme Fully funded energy upgrade
Home Energy Assessment	✓		✓
Project Management	✓		✓
Attic Insulation		✓	✓
Rafter Insulation	✓		
Wall Insulation	✓	✓	✓
Floor Insulation	✓		
Windows	✓	✓	✓
Doors	✓	✓	
Heating Controls	✓	✓	
Heat Pump	✓	✓	✓
Solar Water Heating	✓	✓	
Solar Electricity	✓	✓	
Ventilation	✓		✓
Air Tightness	✓		
BER Assessment	✓	✓	✓

One Stop Shops offer homeowners all the services required for a complete home energy upgrade. These registered private operators will manage the entire process for you, from the initial assessment of your home, through to the final BER.

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND



NEWS FLASH

Apartment

Median works cost	€22,914
Median grant amount	€6,100
Median cost to homeowner	€16,814

Average BER improvement

D2 > D1

Typical upgrades:

- Heat pump
- Windows and doors
- Wall insulation

Mid Terrace

Median works cost	€50,889
Median grant amount	€18,800
Median cost to homeowner	€32,089

Average BER improvement

E2 > D2

Typical upgrades:

- Heat pump
- Windows and doors
- Wall insulation
- Ceiling insulation
- Ventilation

Semi-D/End Terrace

Median works cost	€62,485
Median grant amount	€21,000
Median cost to homeowner	€41,485

Average BER improvement

D2 > D2

Typical upgrades:

- Heat pump
- Windows and doors
- Wall insulation
- Ceiling insulation
- Solar panels
- Ventilation

Detached

Median works cost	€66,503
Median grant amount	€23,200
Median cost to homeowner	€43,303

Average BER improvement

D2 > D2

Typical upgrades:

- Heat pump
- Windows and doors
- Wall insulation
- Ceiling insulation
- Solar panels
- Ventilation

Key Figures

30%

received energy upgrades at a cost of >€75,000

41%

received energy upgrades at a cost of €50,000–€75,000

22%

received energy upgrades at a cost of €30,000–€50,000

6%

received energy upgrades at a cost of <€30,000

Average BER uplift

D2 > A2

One Stop Shop Service average costs and grants

€33,000

Data based upon average costs for 929 private homes completed through the National Home Energy Upgrades Scheme (Dec 2024) Median is the mid-point of all the upgrade costs, where half of upgrades are less expensive, and half of upgrades are more expensive.

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

External Wall Insulation			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€24,000	€8,000	
Semi-D / End Terrace	€23,333	€6,000	
Mid Terrace	€13,500	€3,500	
Apartment	€15,750	€3,000	

Internal Wall Insulation			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€9,000	€4,500	
Semi-D / End Terrace	€10,532	€3,500	
Mid Terrace	€6,530	€2,000	
Apartment	€4,095	€1,500	

Cavity Insulation			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€2,250	€1,700	
Semi-D / End Terrace	€1,500	€1,200	
Mid Terrace	€1,100	€800	
Apartment	€903	€700	

Roof Insulation			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€2,500	€1,500	
Semi-D / End Terrace	€1,983	€1,300	
Mid Terrace	€2,000	€1,200	
Apartment	€2,080	€800	

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

Heat Pump			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€16,000	€6,500	
Semi-D / End Terrace	€16,833	€6,500	
Mid Terrace	€15,580	€6,500	
Apartment	€14,575	€4,500	

Solar PV Up to 4kWp			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€9,120	€1,400 - €1,800	
Semi-D / End Terrace	€8,600	€1,400 - €1,800	
Mid Terrace	€8,153	€1,400 - €1,800	
Apartment	€6,666	€1,400 - €1,800	

Heating Controls			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€4,233	€700	
Semi-D / End Terrace	€3,800	€700	
Mid Terrace	€3,530	€700	
Apartment	€4,793	€700	

Building Energy Rating			
HOUSE TYPE	MEDIAN COST	FIXED GRANT	
Detached	€280	€50	
Semi-D / End Terrace	€276	€50	
Mid Terrace	€276	€50	
Apartment	€230	€50	



seai

SUSTAINABLE ENERGY AUTHORITY OF IRELAND

Home energy upgrades for traditional homes

Homeowners with traditional homes can now apply for grant support to enhance energy efficiency through the **One Stop Shop** service.





