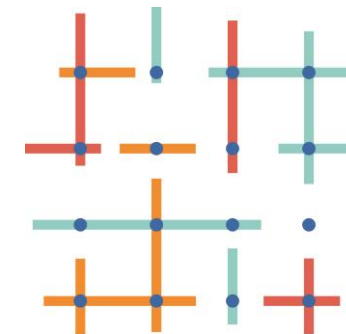


# DCU Sustainability

**Samantha Fahy**

Sustainable Energy Community (SEC)

20 September 2019



M.CO

# *Thank you*



This information event hosted by: DCU, SEAI, Plan Energy and M.Co

# Agenda

- Welcome and Intro (Sam, DCU Sustainability)
- Sustainable Energy Communities (Nicola, Plan Energy)
- SEAI Grants (Gillian, SEAI)
- Home Energy Kits (Nicola, Plan Energy)
- Open Q&A
  
- Experts in the room

# Strategic Plan : Sustainability at Core

- Institutional Sustainability Council
- Roadmap for a healthier & more sustainable University
- Metrics and Footprints
- Carbon Neutral Exemplar Campus
- **Integrate Sustainability Principles, Literacy and Awareness into the student curriculum.**
- Stakeholder Engagement



# Sustainability @ DCU

Core to the our 2017-2022 Strategic Plan



**An Taisce Green Campus**

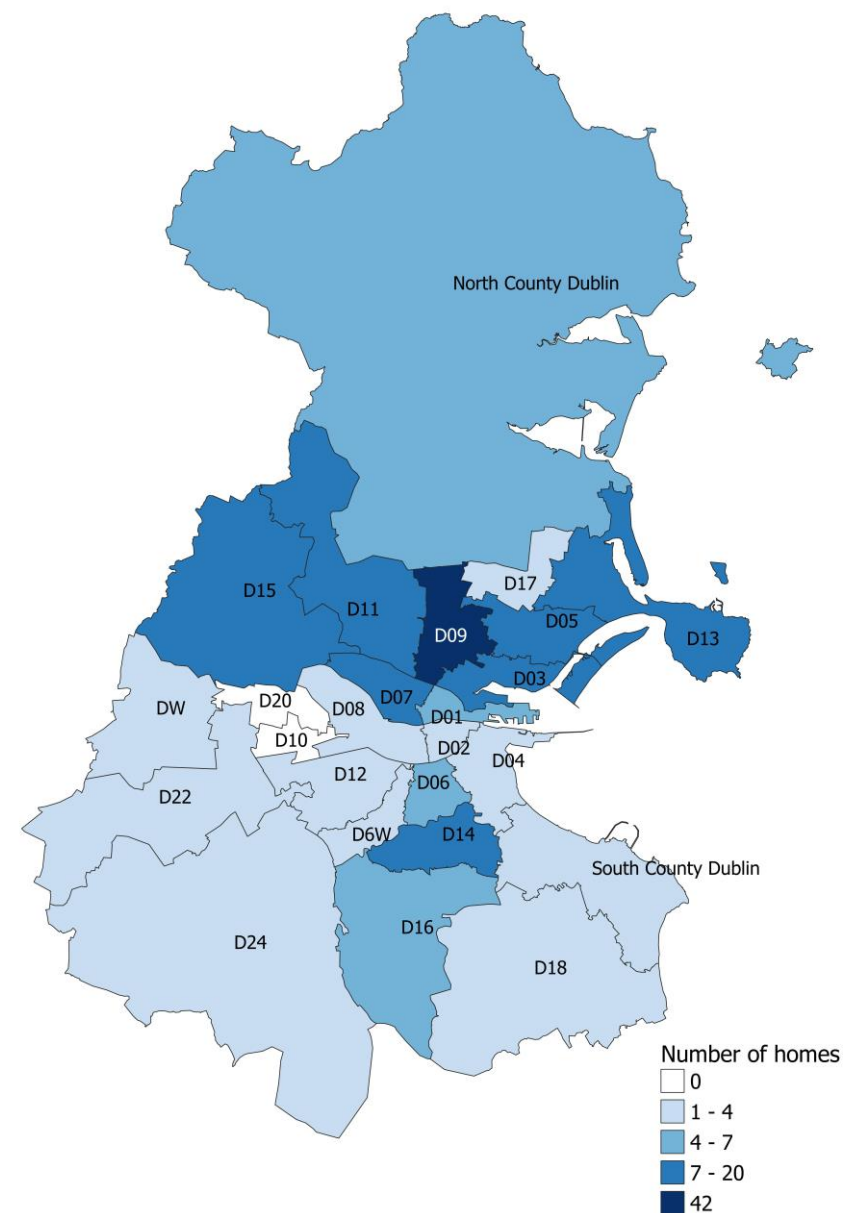
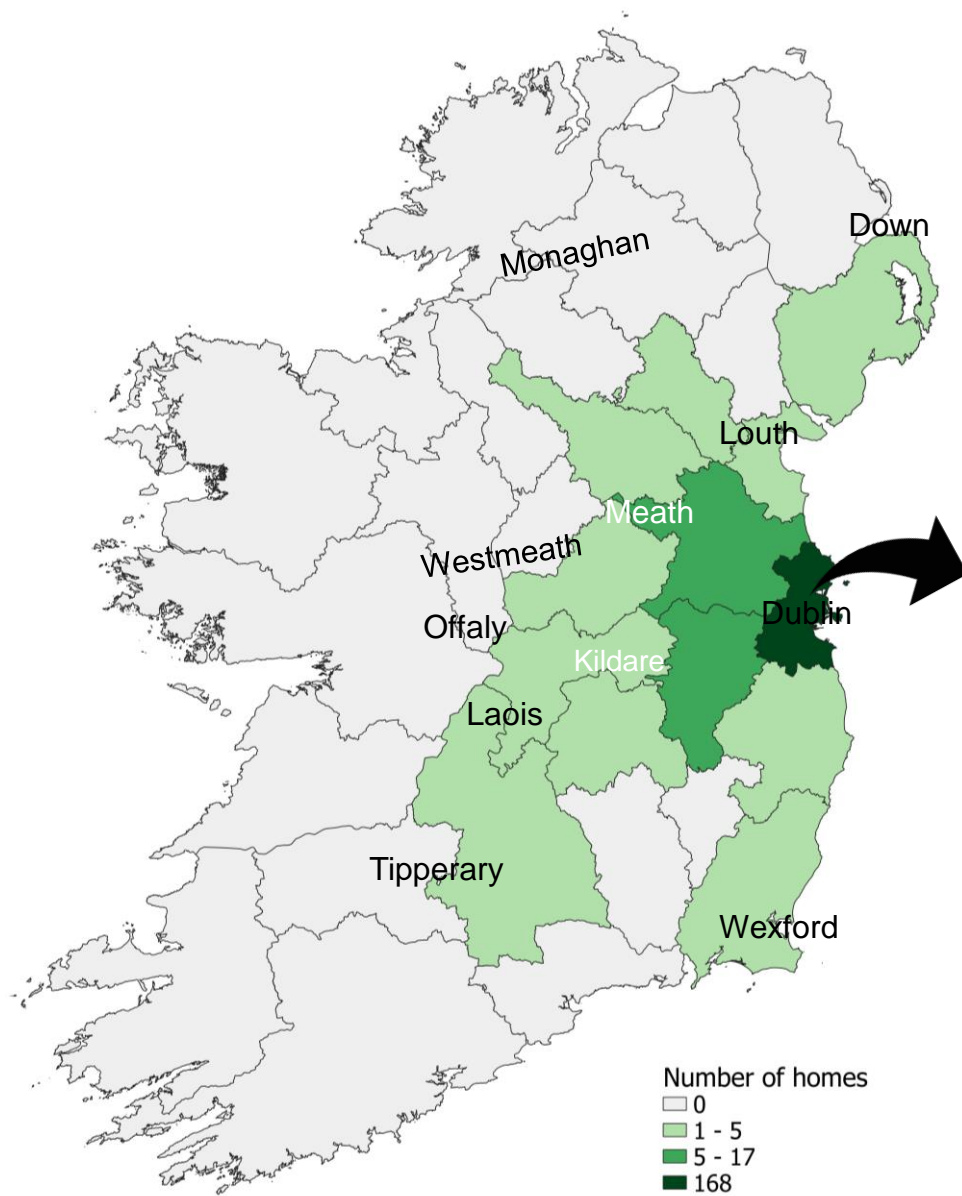
First Flag : **July 2014**

Renewed : **July 2019**

# Overarching plan for SEC

- Series of workshop (3) to support identification, completion and submission of grant application to SEAI to support energy efficiency measures in homes
- Pilot on DCU Community
- Expand to local community surrounding the DCU campuses

# WHERE DO WE CALL HOME?





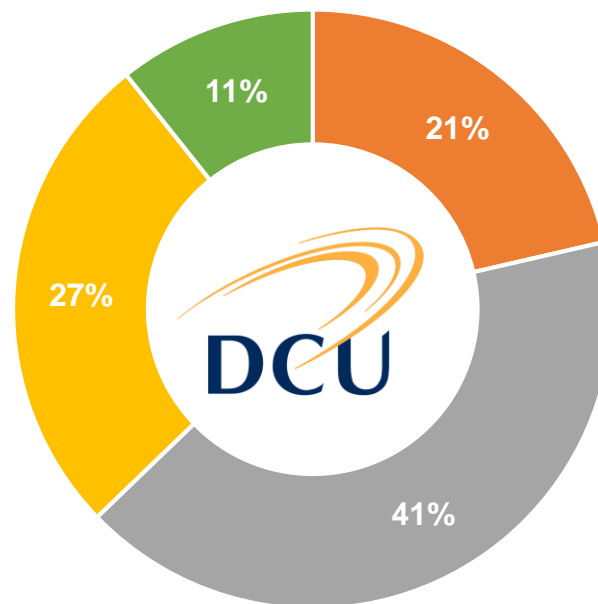
## THE TYPE OF HOUSES WE LIVE IN ...



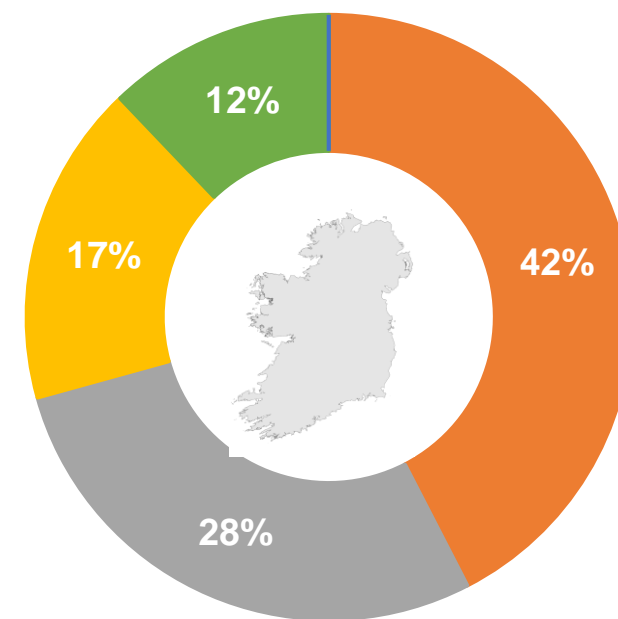
More of the DCU Community live in **terraced** and semi-detached houses compared to the national average.

The type of house we live in is important when considering the best upgrades for your home.

### DCU SEC House Type Profile



### National House Type Profile

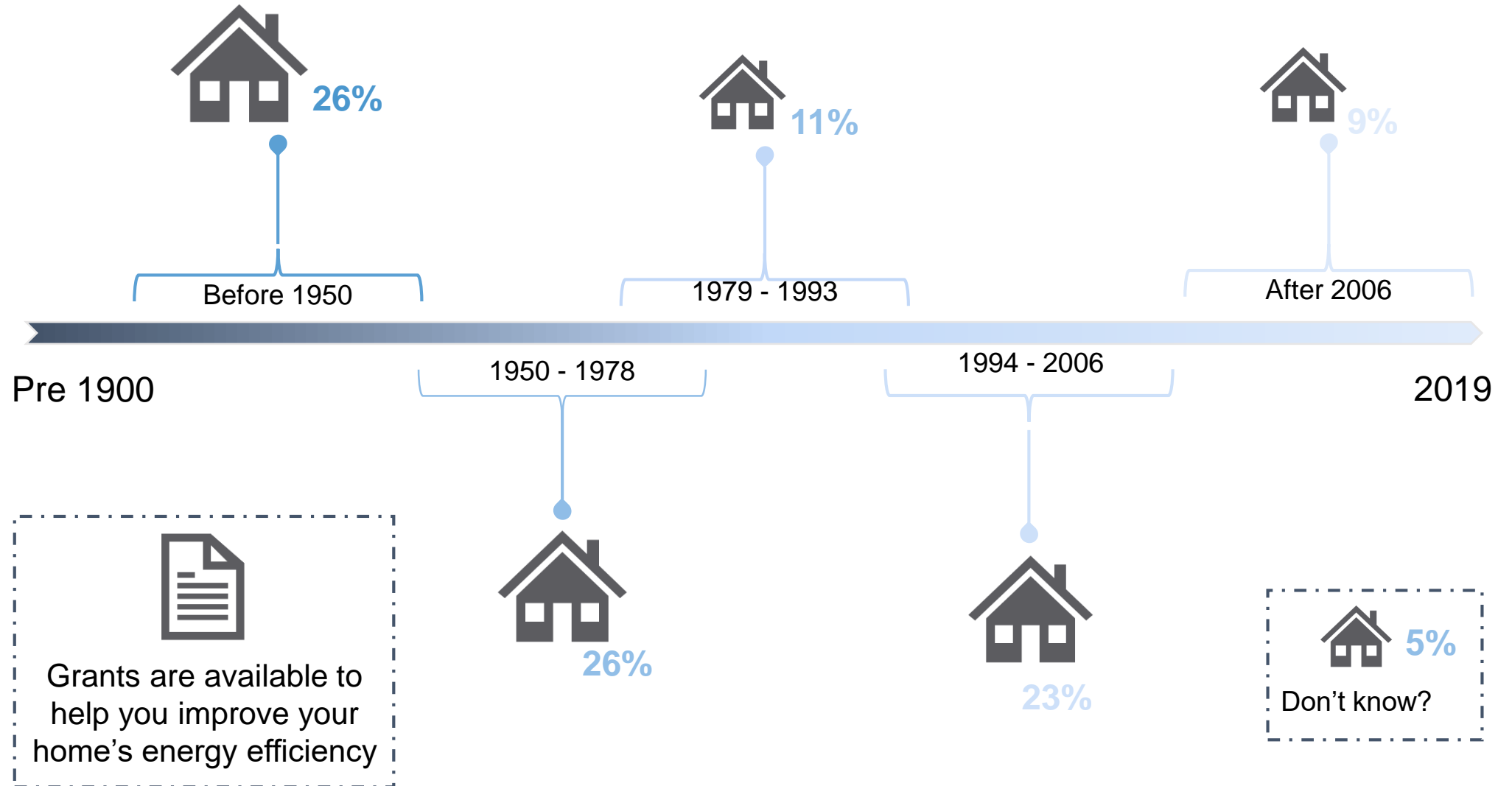


■ Detached house ■ Semi-detached house ■ Terraced house ■ Flat or apartment ■ Bungalow

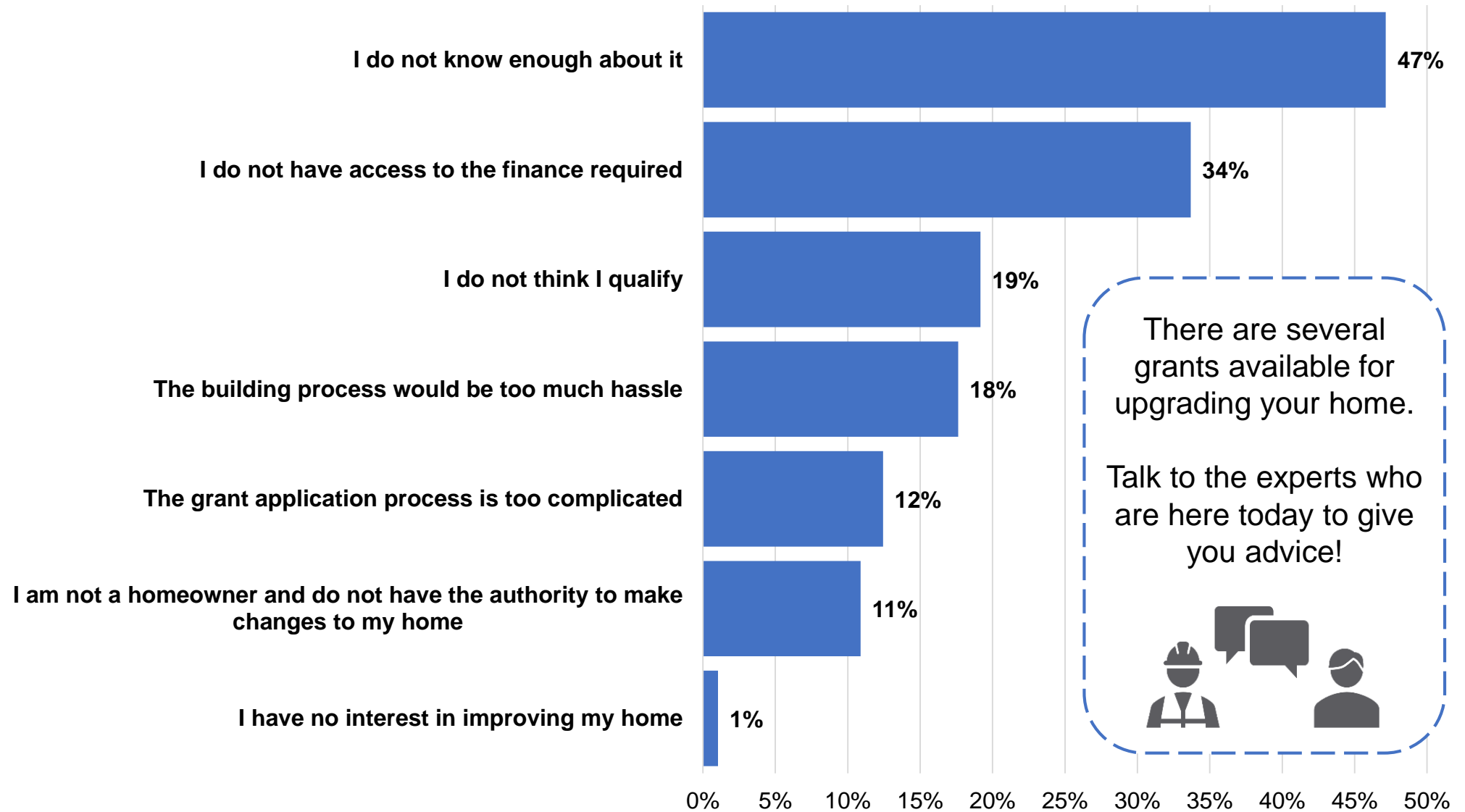


## WHEN WAS YOUR HOME BUILT?

How old your house is can affect which upgrade measures are best for improving your home's energy efficiency.



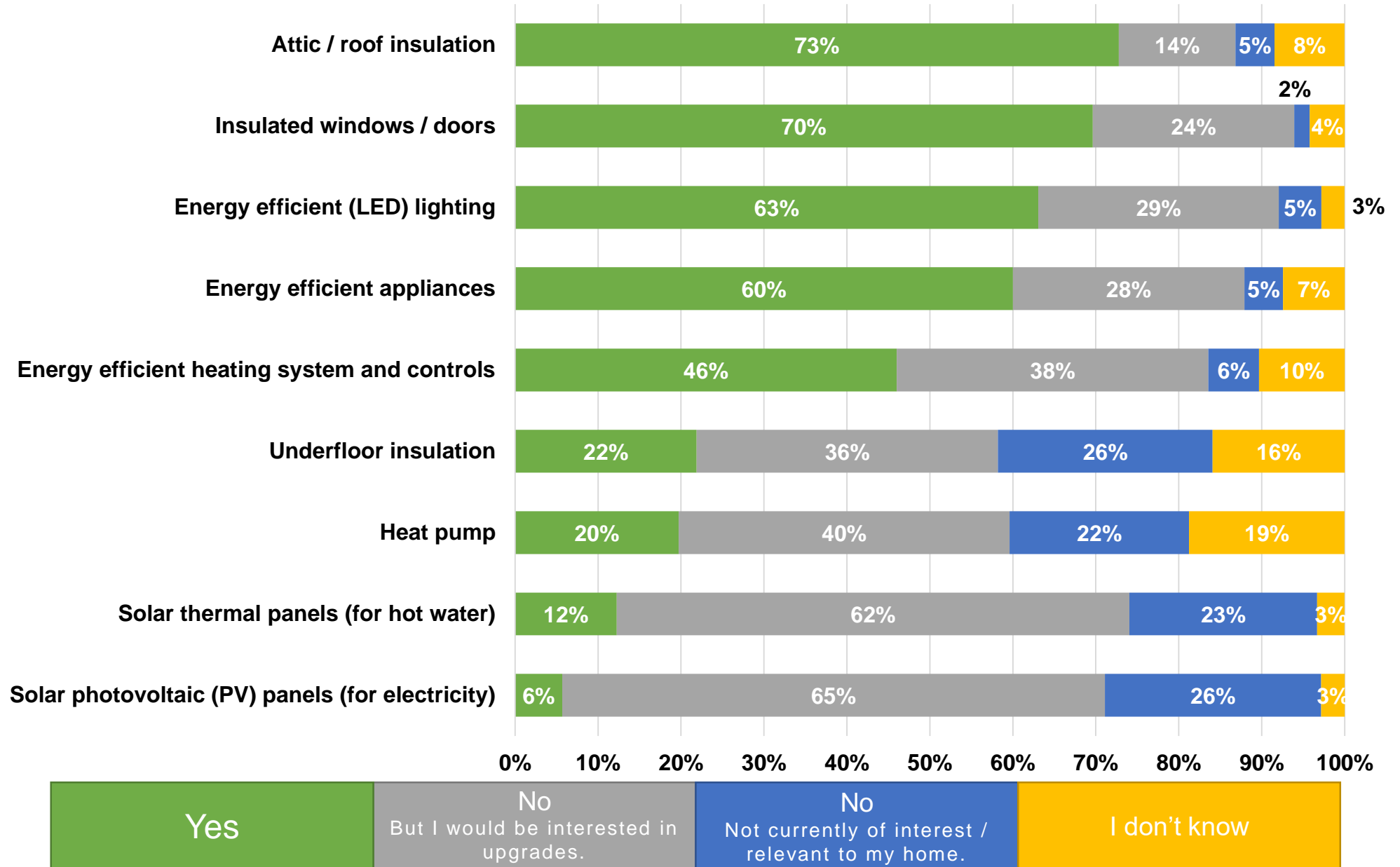
# WHAT HAS STOPPED YOU FROM APPLYING FOR A GRANT



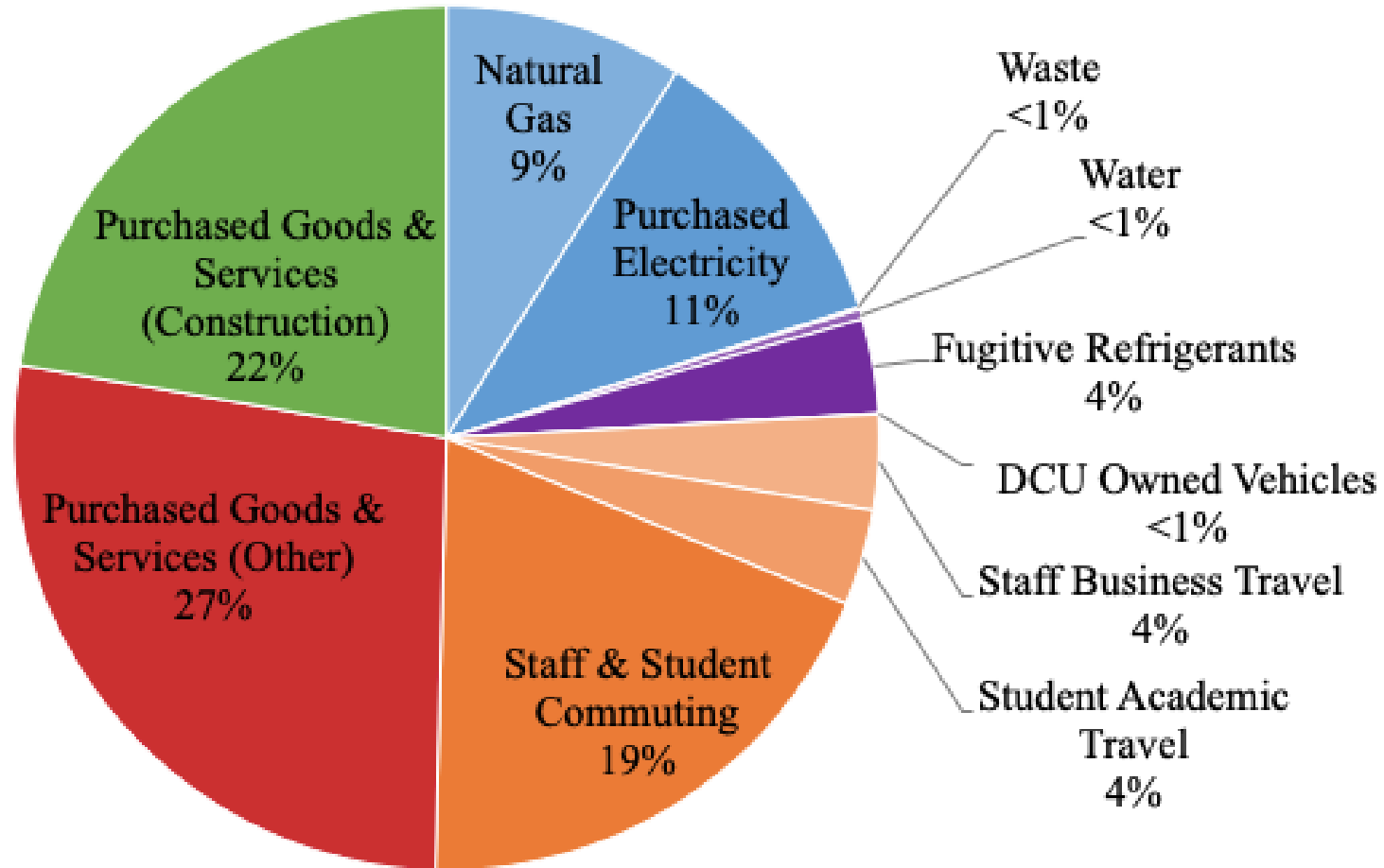
# ARE ANY OF THE FOLLOW ENERGY EFFICIENCY MEASURES IN YOUR HOME?



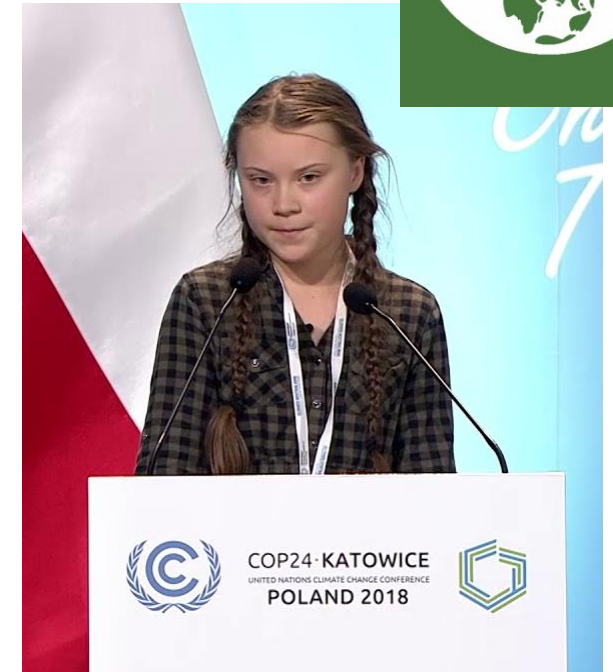
Ollscoil Chathair  
Bhaile Átha Cliath  
Dublin City University



# Greenhouse Gas Emissions



**2018: 64,000 tCO<sub>2</sub>e**



**Today 20<sup>th</sup> Sep**  
**The U 13.00**

*Thank you*



BELFAST | SLIGO | DUBLIN

[www.planenergy.co.uk](http://www.planenergy.co.uk)

# Sustainable Energy Communities

# What is a Sustainable Energy Community?

Works together to develop a sustainable energy system:

- be energy-efficient
- use renewable energy
- consider smart energy solutions

Homes, **sports clubs**, community centres, **churches**, businesses as well as **universities** and colleges etc.











# Introduction:

<https://www.seai.ie/community-energy/sustainable-energy-communities/community-network/>

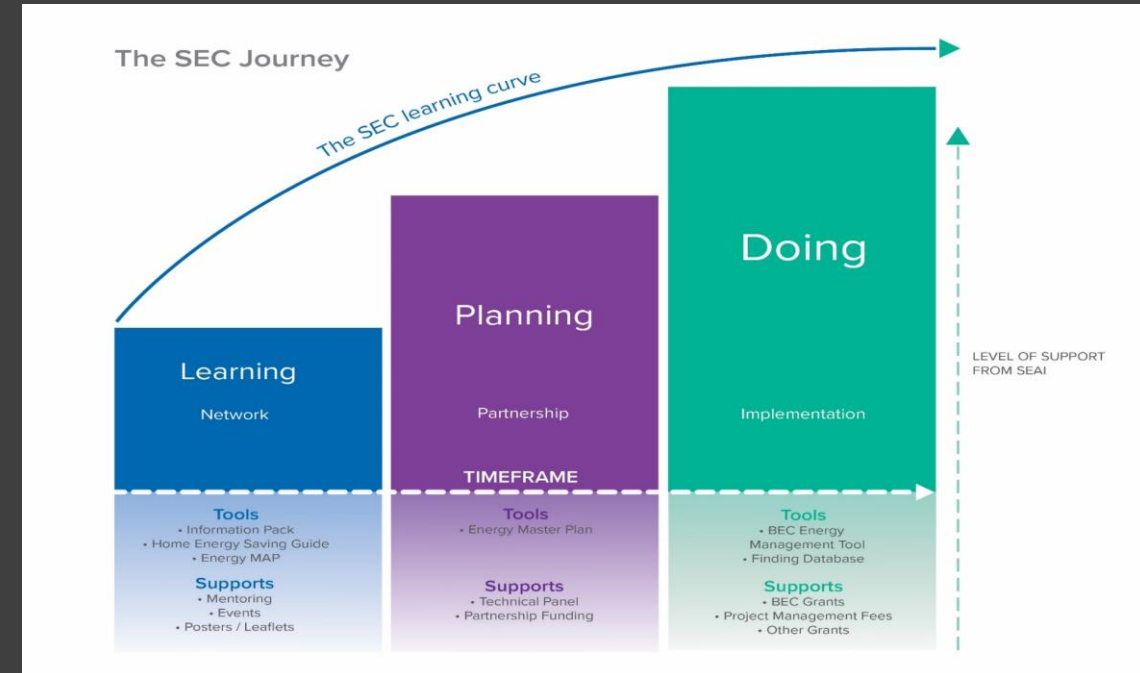




# Mentor Roles

CHANGE  
THE WAY YOUR  
COMMUNITY  
THINKS ABOUT  
ENERGY

JOIN US ON THIS JOURNEY  
VISIT SEAI



# Gillian Gannon SEAI



# Home Energy Kits

<https://www.codema.ie/media/video/what-is-the-home-energy-saving-kit/>







## Home Energy Grant Programmes



Rialtas na hÉireann  
Government of Ireland

[www.seai.ie](http://www.seai.ie)



# Our Vision – Creating a Cleaner Energy Future

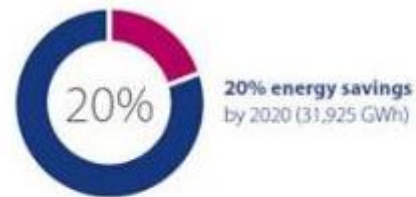
- Moving towards a **Low Carbon Energy Future**
  - Sustainable, secure, affordable, and clean energy.
- We need to use **LESS** energy and **CLEAN** energy.
  - Develop new solutions to meet our energy needs.
- Leading the transition to Smarter and more Sustainable energy activities.



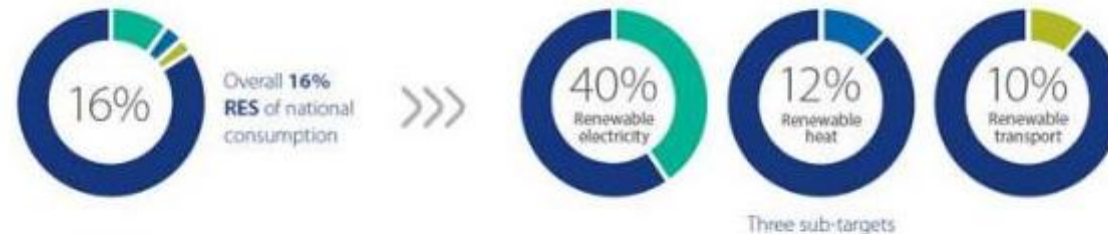
# EU Targets/Government policy

Decarbonise our energy supply by 80-95% by 2050

EU Energy  
Efficiency  
Targets 2020



EU  
Renewables  
Targets 2020

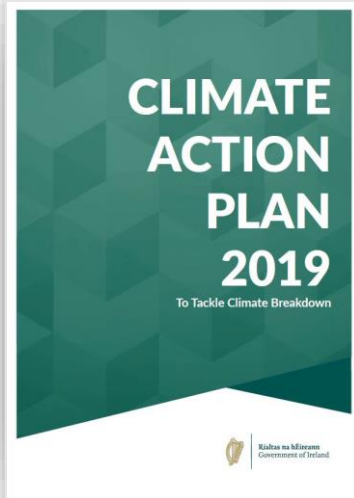


EU  
Emissions  
Targets 2020



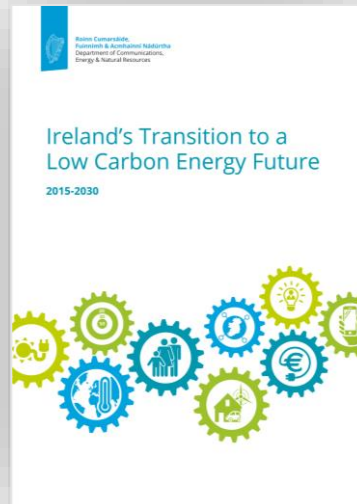
Achievement RES - H: 6.9%

# EU Targets/Government policy



## Climate Action Plan 2019

Identifying how Ireland will achieve its 2030 targets for carbon emissions, and puts us on a trajectory to achieve net zero carbon emissions by 2050



## White paper on Energy

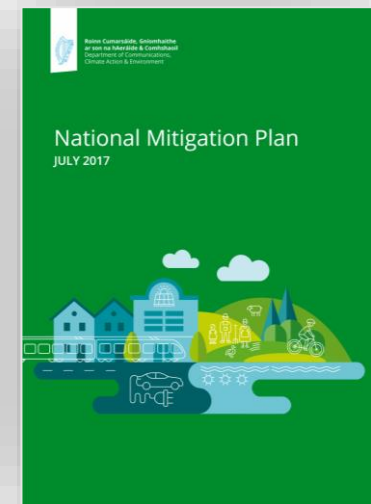
A new Energy Policy Framework, 2015



## National Development Plan

*"45,000 per annum from 2021 to achieve a minimum BER Rating 'B' "*

Changing out oil boilers to heat pumps in at least 170,000 homes



## National Mitigation Plan

# Heat Loss and Energy Use

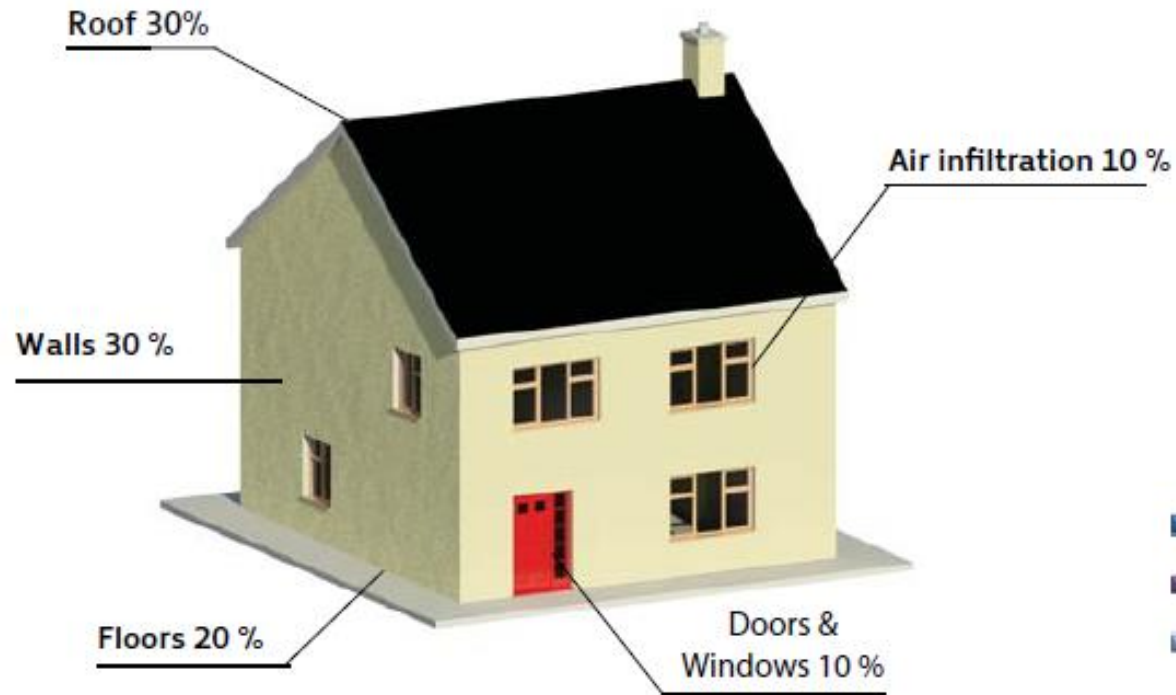


Figure 10 - Percentage heat loss through the fabric of a typical uninsulated dwelling



- Space heating
- Water heating
- Cold appliances
- Consumer electronics
- Cooking
- Lighting
- Wet appliances
- Miscellaneous

Figure 11 - Breakdown of overall energy use in a typical uninsulated dwelling

# How do I retrofit my home?



- Priority 1:** Fabric first:
- Wall insulation
  - Attic/roof insulation
  - Ensure windows are performing
  - Possibly underfloor insulation
- Priority 2:** Heating system:  
Renewable energy (heat pump)
- Priority 3:** Solar PV or Solar Thermal



# SEAI Home Energy Grant Programmes

- **Home Energy Grant Programme**  
Individual energy upgrades for all homeowners.
- **Free Energy Upgrades Programme**  
Delivering free energy upgrades to eligible homeowners who are in receipt of certain welfare payments
- **Communities Programme**  
Assisting energy efficiency community projects through capital funding, partnerships and technical support.
- **Solar Electricity Pilot**

# Home Energy Grants

**Fixed value grants for individual energy upgrades available to all homeowners including landlords:**

- Attic insulation
- Wall insulation
  - External wall insulation aka “the wrap”
  - Cavity
  - Internal wall insulation aka dry lining
- Heat Pump Systems
- Solar Water Heating
- Heating controls upgrade
- Building Energy Rating (BER) grant





# Ch-ching!

Energy Efficiency Measures		Grant Value
Insulation	Attic	€400
	Wall - Cavity	€400
	Wall - Internal Dry Lining	
	Apartment (any) <u>or</u> Mid-terrace House	€1,600
	Semi-detached <u>or</u> End of Terrace	€2,200
	Detached House	€2,400
	Wall - External	
	Apartment (any) <u>or</u> Mid-terrace House	€2,750
	Semi-detached <u>or</u> End of Terrace	€4,500
	Detached House	€6,000
Heat Pump Systems	Air-to-water / Ground-to-water	€3,500
	Air-to-air	€600
	*Technical Advisor	€200
	(*only in conjunction with the Heat Pump System grant)	
Heating Controls		€700
Solar Thermal		€1,200
Bonus Grant	For 3 <sup>rd</sup> measure	€300
	For 4 <sup>th</sup> measure	€100
** Building Energy Rating (BER)		€50

\*\*All applicants must carry out a Building Energy Rating (BER) on completion of works. A BER grant is only payable once as part of a works grant.



# Eligibility Criteria

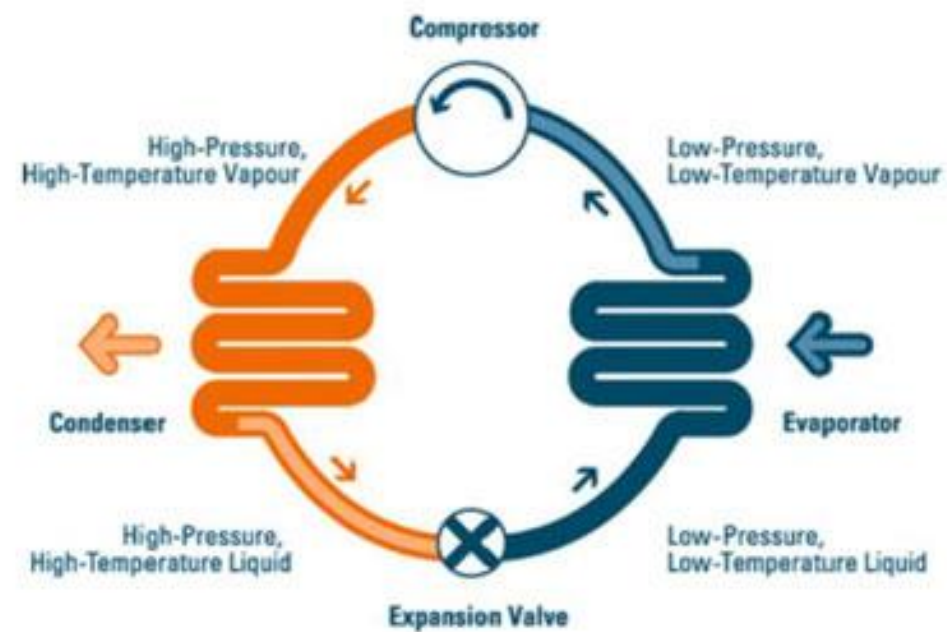
- Make sure you are grant approved **before** the work starts
- Must use an **SEAI registered contractor**
- **Insulation** and **Heating Controls** grants - available to all owners of homes built and occupied before 2006.
- **Heat Pump Systems** and **Solar Thermal** grants - available to all owners of homes built and occupied before 2011.
- Must complete a **post-works BER assessment**
- You **must not** have received an SEAI grant previously for the same measure.
- Grants are **Not Means Tested**.
- **Apply** Online/Post

# Heat Pump System Grants

- Is your home “**Heat Pump Ready**”?
- Choose an independent **SEAI-registered Technical Advisor**.
- Upload your **Technical Assessment** to receive grant approval for your heat pump system.
- **Technical Assessment Grant** of €200 in conjunction with drawdown of grant for heat pump.
- Must complete recommended **Fabric Upgrades** to qualify for the heat pump grant.

**‘New’ technology so important to ensure it’s done right  
and give homeowner confidence it’s right.**

# What Is A Heat Pump?



# How To Apply

**Pick your  
SEAI  
registered  
Contractor**

- SEAI list is not a quality guarantee so check out references. Ask for a pre-works survey

**Check your  
MPRN**

- Find your MPRN number on your electricity bill

**Apply  
Online/Post**



Home / Grants / Home Grants / Better Energy Homes

# Better Energy Homes



# Next Steps

- Make sure you are grant approved before the work starts
- Get a BER cert from a BER assessor
- Fill out our Declaration of Works form and Request for Payment
- You have 6 months to complete the work and return the completed paperwork





# Apply Through Energy Partners

- Apply through your **Energy Partner** – manage the application on your behalf.
  - Airtricity Home Energy Services
  - Retrofit Energy Ireland Ltd
  - Kingspan HIS / Kingspan Energy
  - Accuflow
  - Activ8
  - House2Home
- Grant is paid to the Energy Partner – **who passes on the savings to you!**

# Free Energy Upgrades

**Delivering free energy upgrades to eligible homeowners who are in receipt of one of the following:**

- Fuel Allowance
  - One parent family payment
  - Family income supplement
  - Domiciliary care allowance
  - Jobseekers allowance > 6 months & child under 7
  - Carers allowance and lives with the person being cared for
- 
- Must own and live in your own home which was built & occupied before 2006
  - Must not have received works previously under the scheme



# Free Energy Upgrades

- For each eligible home, an SEAI technical surveyor determines which upgrades can be installed and funded.
- **Available energy upgrades:**
  - Attic insulation
  - Cavity wall insulation
  - External wall insulation
  - Internal wall insulation
  - Ventilation, mandatory where attic and/or wall insulation installed
  - Other secondary measures such as lagging jackets, draught proofing & energy efficient lighting
  - Occasionally, heating upgrades and/or window replacements may be recommended.
- Delivered through a panel of private contractors and community based organisations



# Sustainable Energy Communities

**A Sustainable Energy Community is a community in which everyone works together to develop a sustainable energy system for the benefit of the community.**

- aiming, as far as possible, to be energy efficient
- using renewable energy where feasible
- adopt smart technology solutions

## **Tools and Supports:**

- Mentoring & Learning supports
- Learn from communities who have conducted local energy projects
- Start thinking about energy use in your own community in an informed way
- Learn from energy experts
- Attend regional and national events
- Access to specialised funding

# Communities Grant

**Assisting energy efficiency community projects through capital funding, partnerships, and technical support.**

- Supporting a National Retrofit Initiative.
- Delivering energy savings to homeowners, communities, and private sector organisations.
- Community oriented with a cross-sectoral approach, and you must show that you can sustainably finance the proposed project.



# Communities Grant

- 2018 €28m Budget allocation.
- Residential and Commercial market.
- Encouraging smaller projects of <€75k and ideally not > €1m.
- Promote Community Renewable Projects.

## Grant Support

- Non-domestic Design fees: Max 1.5% of eligible project costs.
- Project Management fees: Max 5% of eligible project costs.  
Potential 3% PM bonus where SEAI targets achieved.
- M&V equipment and fees: For agreed projects, where an outline M&V plan is submitted. % of eligible costs



# Communities Grant

## PROJECTS SUPPORTED

- Community benefits
- Multiple elements, not a single focus
- Mix of sustainable solutions
- A clear road map
- Innovation and project ambition
- Justified energy savings
- An ability to deliver the project

## SUPPORTED MEASURES

- Building Fabric Upgrades
- Technology and System upgrades
- Integration of Control Systems
- Integration of renewable energy sources

# Solar Electricity Pilot Grant

- Available to owners of homes built and occupied before 2011
- Residential, Self-consumption
- Pilot – Trial and Research Aspects
- Create a Sustainable Market

## Proposed Grant

Solar PV	Battery Storage System
€700 / kWp	€1,000

- €700 for every kWp up to max 4kWp.
- Any installation over 2kWp must install a battery.





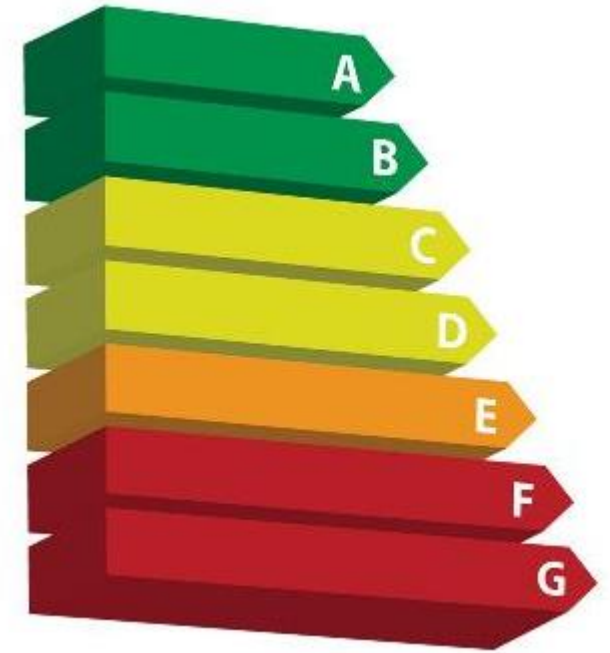
# Building Energy Ratings

## What is a BER Certificate?

- A Building Energy Rating (BER) certificate indicates your building's energy performance.
- It is similar to the energy label for household appliances.
- BER will help you plan the best energy improvements.

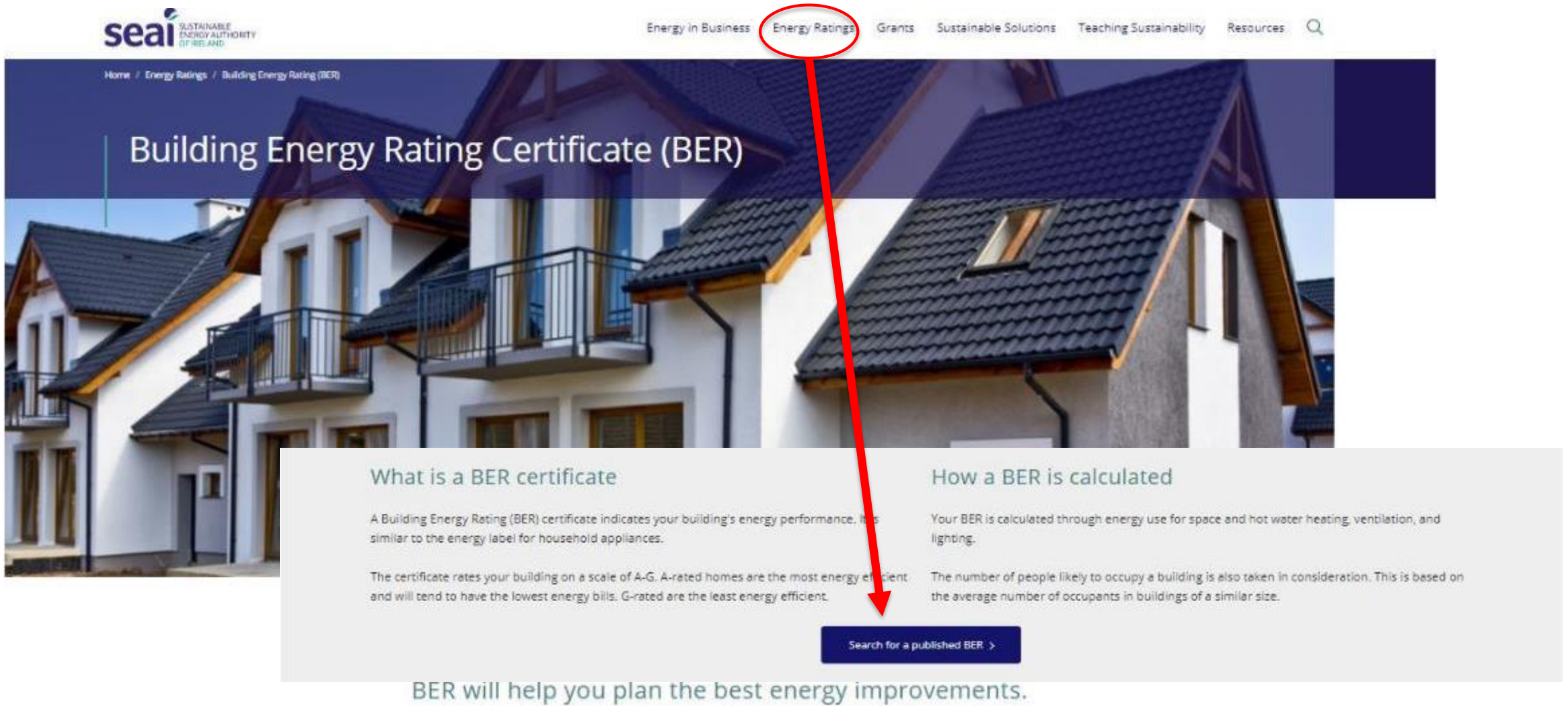
## How do a get a BER for my home?

- It must be carried out by an SEAI registered BER assessor.
- SEAI offers a once-off €50 grant for an BER assessment under the Better Energy Homes programme.





# What Is My BER?



seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

Energy in Business **Energy Ratings** Grants Sustainable Solutions Teaching Sustainability Resources

Home / Energy Ratings / Building Energy Rating (BER)

## Building Energy Rating Certificate (BER)

### What is a BER certificate

A Building Energy Rating (BER) certificate indicates your building's energy performance. It is similar to the energy label for household appliances.

The certificate rates your building on a scale of A-G. A-rated homes are the most energy efficient and will tend to have the lowest energy bills. G-rated are the least energy efficient.

### How a BER is calculated

Your BER is calculated through energy use for space and hot water heating, ventilation, and lighting.

The number of people likely to occupy a building is also taken in consideration. This is based on the average number of occupants in buildings of a similar size.

[Search for a published BER >](#)

BER will help you plan the best energy improvements.

# Electric Vehicles Grant

## What is it for:

- New Battery Electric Vehicles (BEV)
- Plugin Hybrid Electric Vehicles (PHEV)

## Who is eligible:

- Commercial and private purchasers

## How much is the grant:

- Depends on cost of the car (Max €5,000)

## How to apply:

- Your car dealer will apply for you





# Electric Vehicles Grant

- Up to €5,000 Vehicle Registration Tax relief on BEVs and €2,500 on PHEVs.
- Up to €7,000 Taxi purchase grant from National Transport Authority.
- No Benefit in Kind for BEVs.
- No Benefit in Kind for employees using company electricity for their vehicle.
- Discounts on tolls for BEV and PHEV.

List Price of Approved EV	Grant Value
€14,000 – 15,000	€2,000
€15,000 – 16,000	€2,500
€16,000 – 17,000	€3,000
€17,000 – 18,000	€3,500
€18,000 – 19,000	€4,000
€19,000 – 20,000	€4,500
Greater than €20,000	€5,000

# Electric Vehicles Home Charger Grant

## Who is eligible:

- Private Owner of eligible new or 2nd hand EV

## What is it for:

- EV charger in off street parking location

## How much is the grant:

- Up to €600

## How to apply:

- Online or your car dealer may apply for you.
- Eligibility criteria on [www.drivingelectric.ie](http://www.drivingelectric.ie)



Over **420,000 homeowners** have already received grants from SEAI



**Make your home warm & comfy**

**Can help cut Energy bills**



**Increase the value of your home**

# Questions

