GLENERGY
ENERGY FOR EVERYTHING

Renewable Energy and Energy Efficiency Options

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SEC MENTOR for Wicklow

Renewable Energy and Energy Efficiency Options

- No Cost Measures
- Insulation Options
- Solar PV
- Domestic Heat Pumps
- Hot Water Heat Pumps
- Grants
- SECS

Renewable Energy and Energy Efficiency

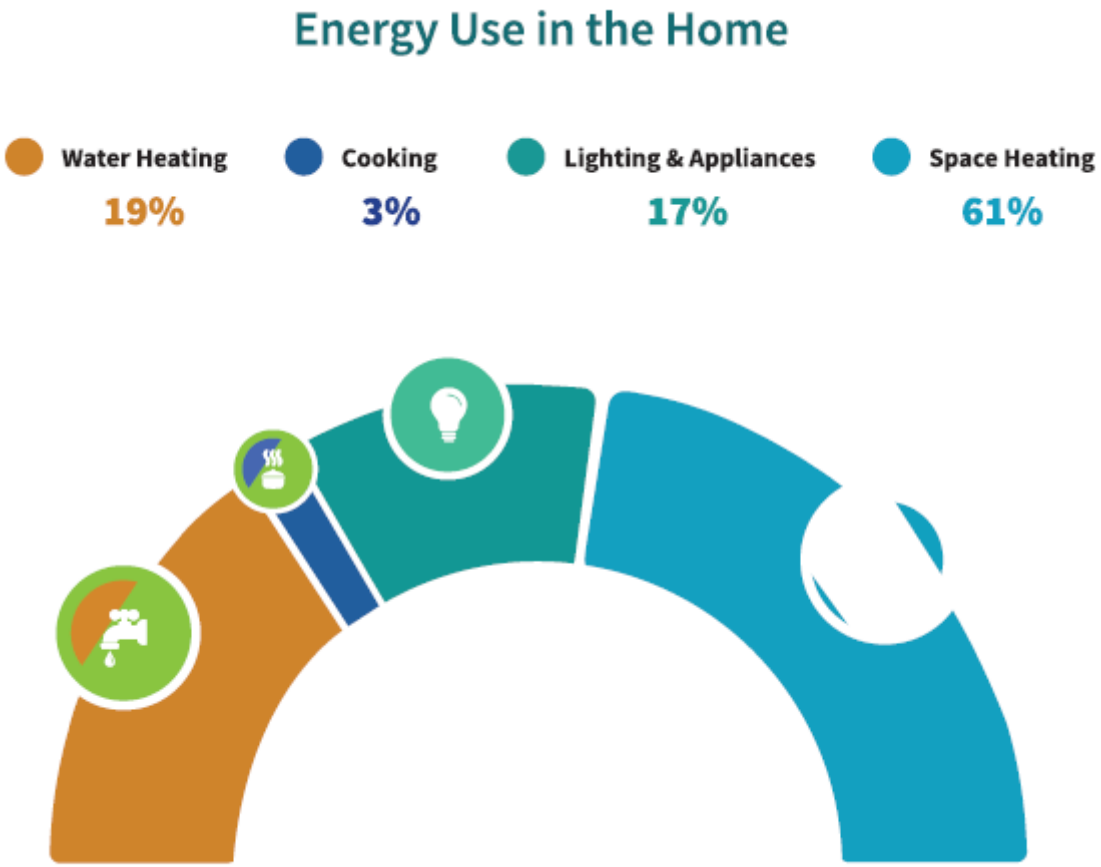


Figure 2 shows typical energy usage in the home
(SEAI 2018 - Energy in the residential sector report)

Don’t sweat the small stuff

Renewable Energy and Energy Efficiency

No Cost Heating Reduction Measures

Turn down your thermostat. If you turn the thermostat down by just one degree, you can reduce your heating bill by 10%. The thermostat for your living/kitchen area should be set at 18-20°C, while hallways and bedrooms can be cooler, ideally between 15-18°C.

Close doors between rooms that are heated and unheated to keep the heat in.

Move furniture away from radiators. When trying to stay warm at home during winter be strategic about your furniture placement. Place your desk, bed or sofa around any heat sources, without blocking them.

Renewable Energy and Energy Efficiency

No Cost DHW Heating Reduction Measures

Take a shower rather than a bath. A regular shower uses only 20% of the energy it takes to heat the water for a full bath.

Pumped electric showers are one of the biggest energy users in the home. By reducing your shower time, you could save a lot of energy and water.

Renewable Energy and Energy Efficiency

No Cost Lighting Reduction Measures

Always turn off lights when you leave a room and adjust your blinds or curtains to let in as much light as possible during the day.

Replace old light bulbs with LED energy efficient options, which can use 90% less electricity and last 10- 20 times longer than ordinary light bulbs.

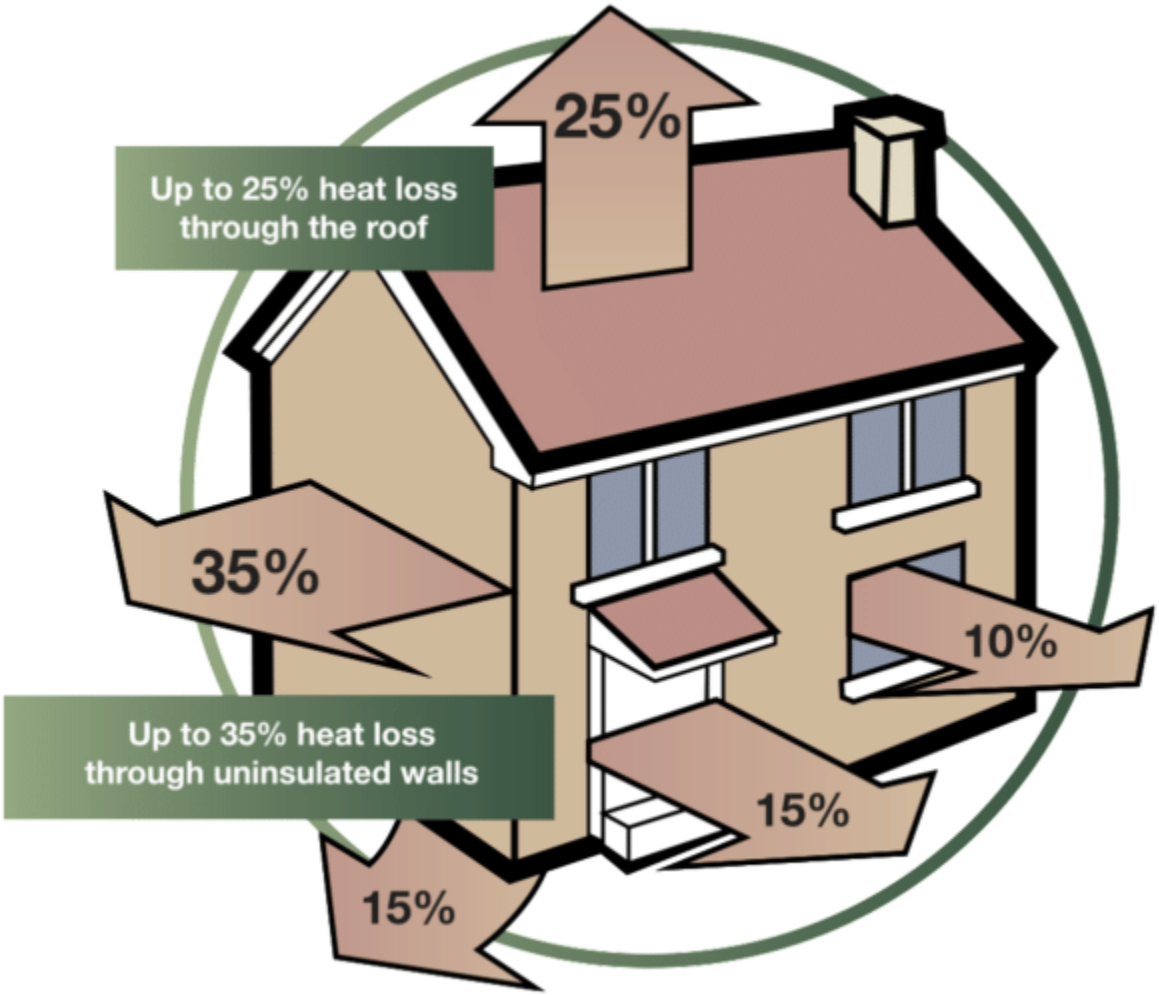
Position your furniture so you make the most of natural light.

Renewable Energy and Energy Efficiency

Home Energy Saving Kit
Knowledge is Power

Renewable Energy and Energy Efficiency

House Heat Loss

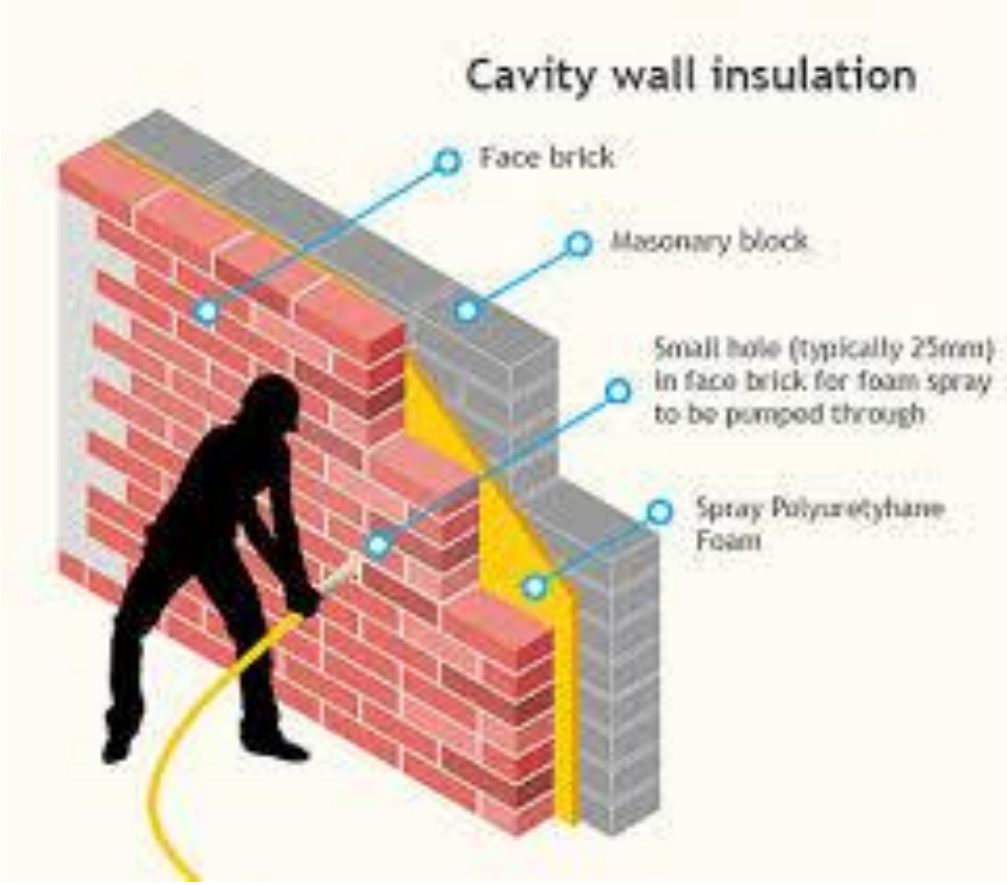


Renewable Energy and Energy Efficiency
Insulation Options

Attic Insulation – 400mm

Renewable Energy and Energy Efficiency
Insulation Options

Cavity Wall Insulation

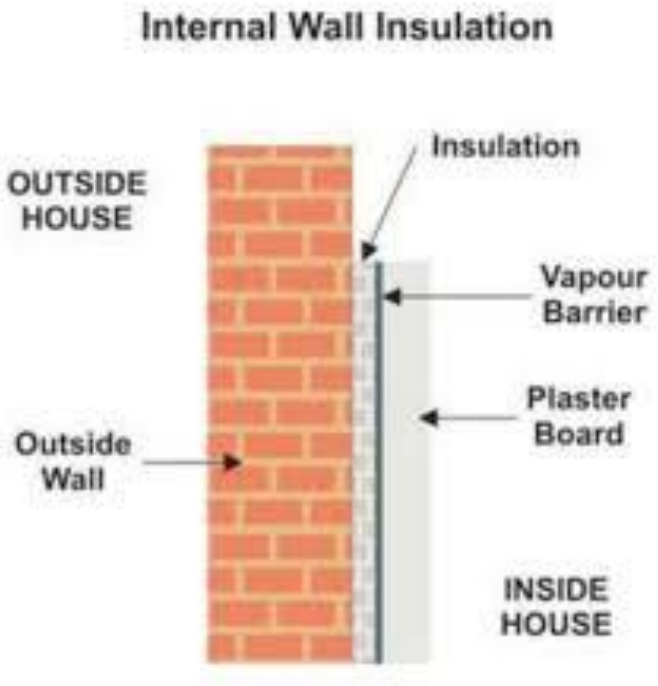


Renewable Energy and Energy Efficiency
Insulation Options

External Wall Insulation

Renewable Energy and Energy Efficiency
Insulation Options

Internal Wall Insulation



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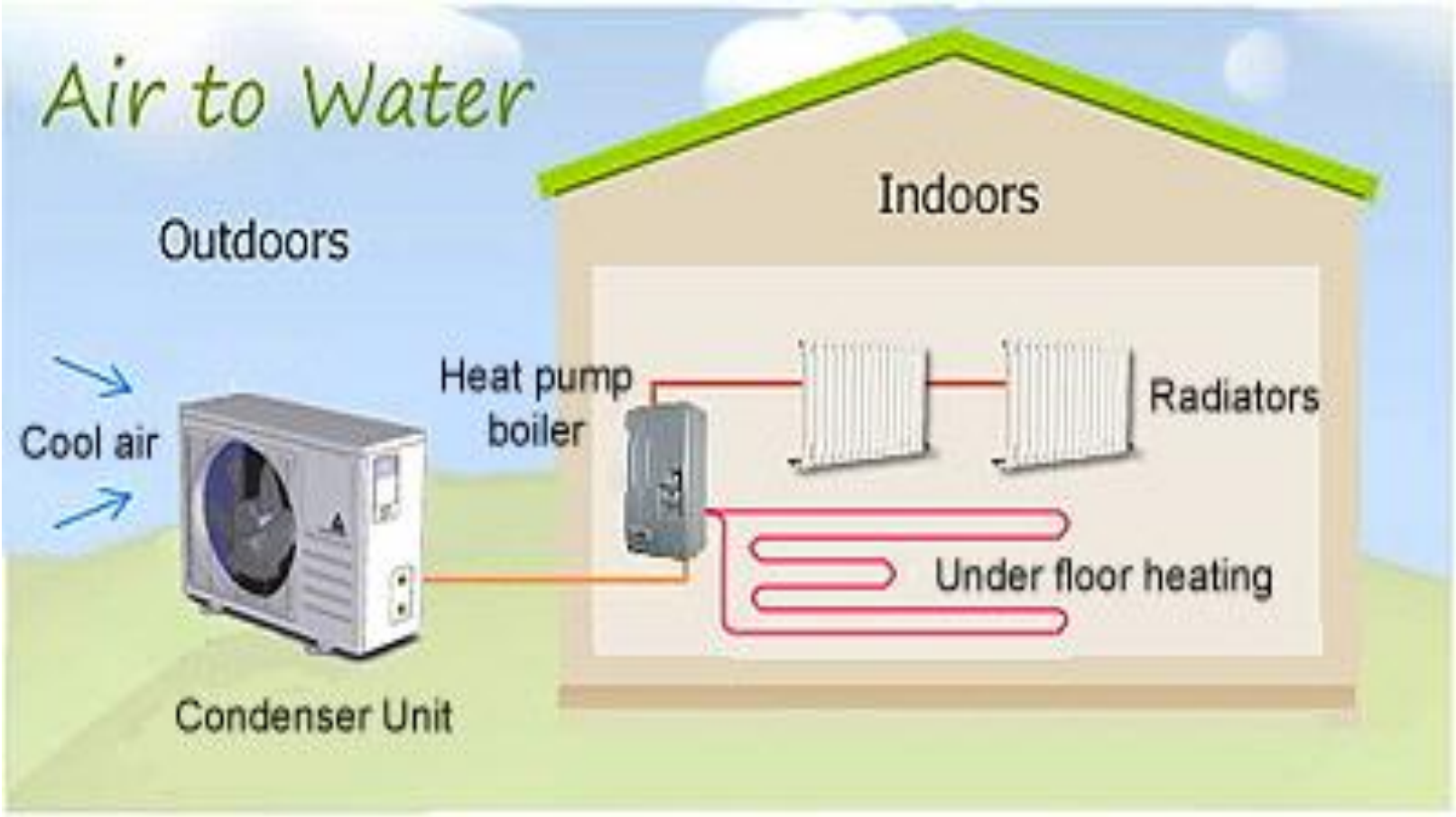
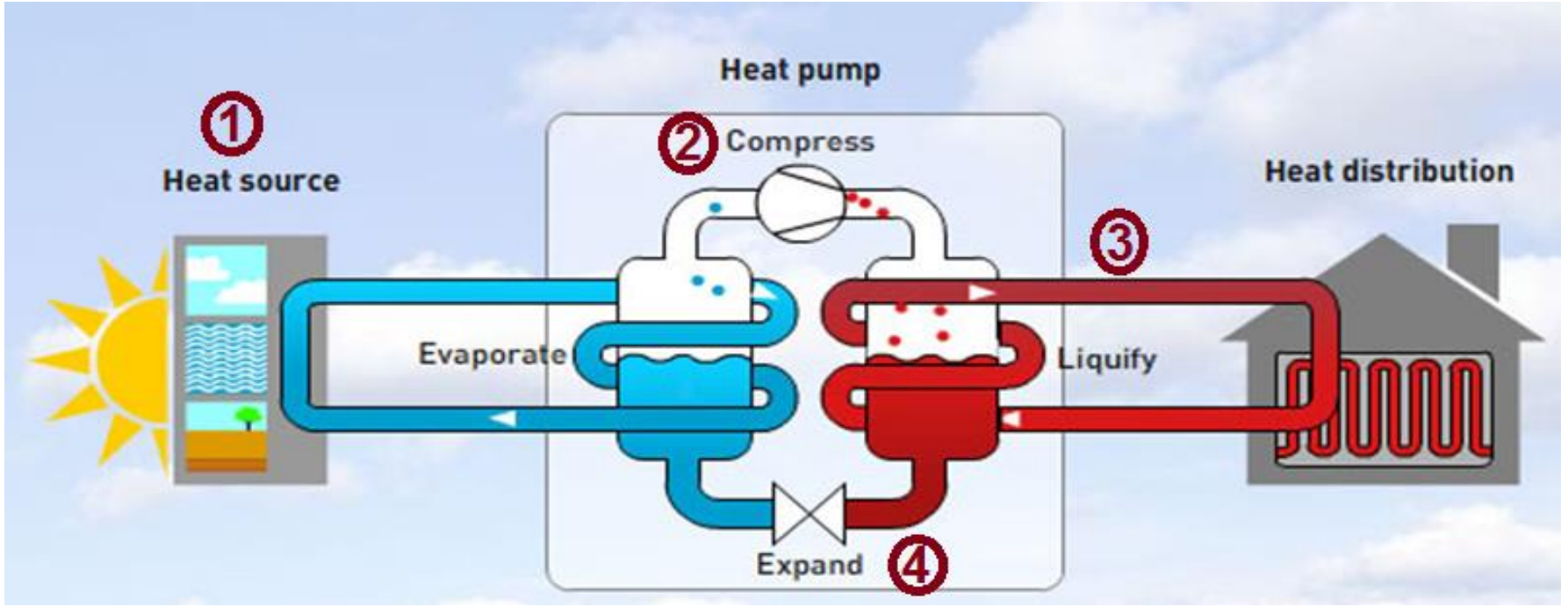
Heat Pumps



Renewable Energy and Energy Efficiency

How Heat Pumps Work



1. Evaporate – refrigerant boils and turns to gas
2. Compress – compresses the gas = HEAT
3. Heat Exchange – heat produced is passed to Central heating
4. Expansion – cooled gas is depressurised and turned to liquid – Cycle starts again

Renewable Energy and Energy Efficiency

Split Air To Water Heat Pump

Renewable Energy and Energy Efficiency

Monobloc Air To Water Heat Pump

Renewable Energy and Energy Efficiency

Hot Water Heat Pump

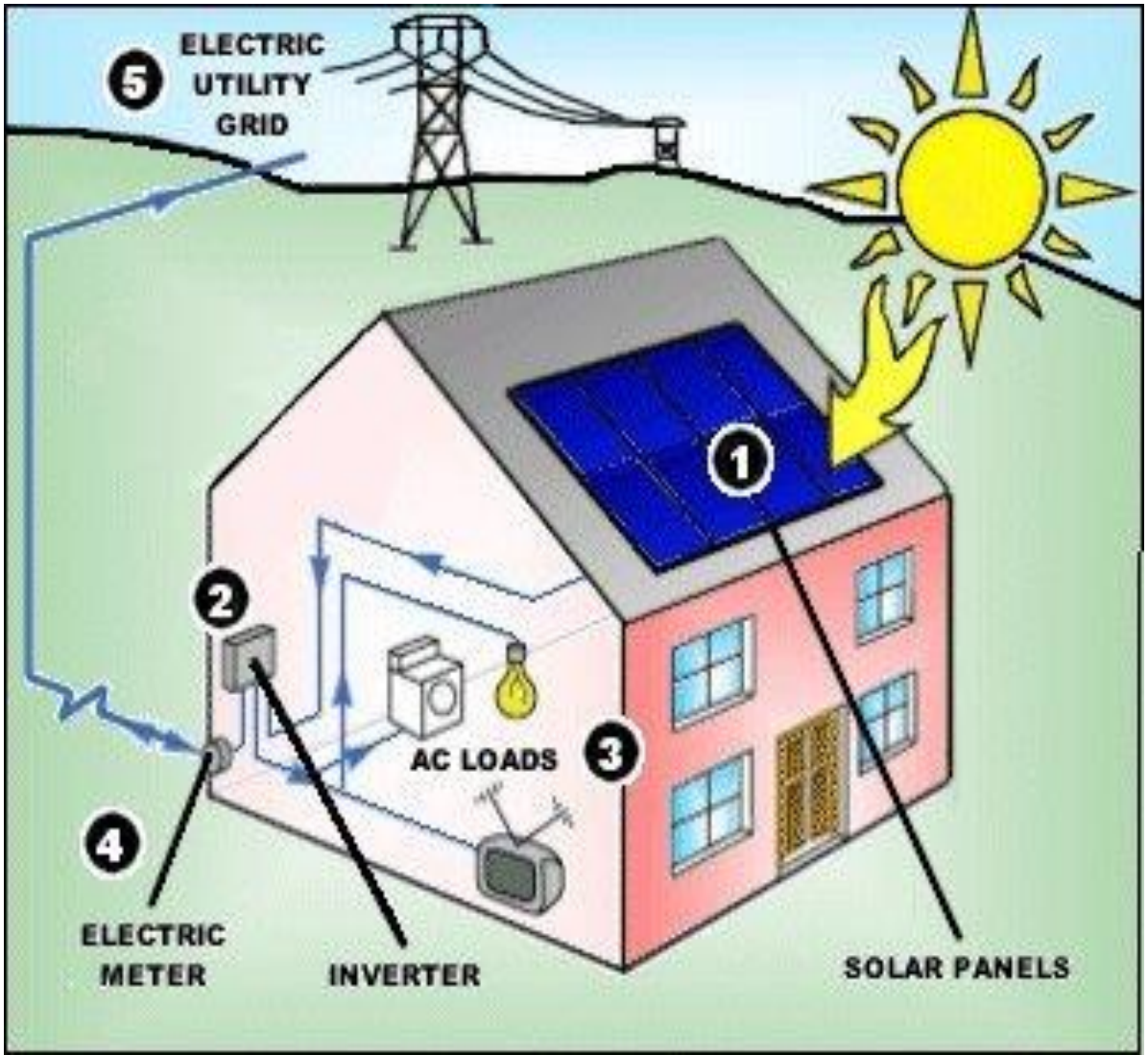
Solar PV

SOLAR ELECTRICITY

Solar PV

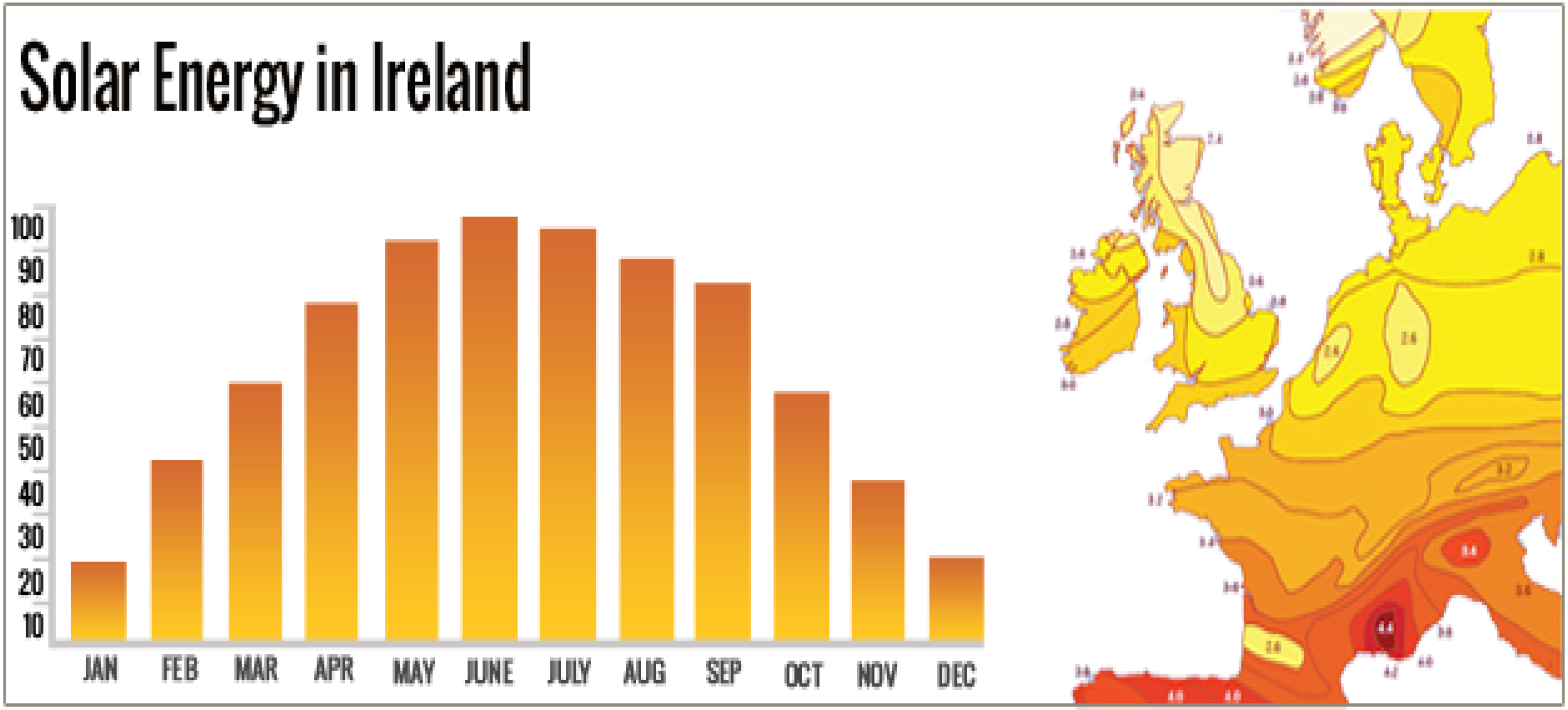
SOLAR ELECTRICITY

- Solar Photovoltaic (PV)
- Create Electricity when panels are exposed to sunlight
- Electricity is either used as it is produced, stored in a battery or fed to the grid.
- Feed In Tariff available from Feb this year



Solar PV

SOLAR ELECTRICITY



Face Panels as South as possible

Anywhere from East – South – West

Nothing North facing

GRANTS

SEAI

Grants available

If you choose to manage the upgrade yourself, the following grants are available to eligible homes. You must have grant approval in place before you start works.

Attic insulation

Grants available for attic insulation.

Find out more >

Wall insulation

Includes cavity, internal and external wall insulation.

Find out more >

Heating controls

€700 to upgrade your heating controls.

Find out more >

Heat pump

Grants for a range of heat pump systems and your technical assessment.

Find out more >

Solar thermal

Up to €1200 grant available for solar water heating.

Find out more >

Solar PV

Up to €2,400 to support the installation of solar pv panels.

Find out more >

GRANTS

SEAI

Free Energy Upgrade

Free home energy upgrade service for qualifying homeowners

Fully funded by SEAI
All home upgrade costs covered

One Stop Shop Service

Registered companies will be listed in April. Complete home energy upgrade solution

Part funded with SEAI grants
Based on set grants per measure. Can be 45 - 50% of the cost for a typical family home

Individual Energy Upgrade Grants

Selection of individual grants for home energy upgrades

Part funded with SEAI grants
Up to 80% of the cost of the upgrade for a typical family home

GRANTS

Grant name	Types of home	New Grant Value
Heat Pump Systems		
Homes built and occupied before 2021	All Houses	€6,500
	Apartments	€4,500
Heat Pump Air to Air		€3,500
Homes built and occupied before 2021		
Heating Controls		€700
Solar Hot Water		€1200
Homes built and occupied before 2021		
Attic insulation	Apartment (any)	€800
Homes built and occupied before 2011	Mid-Terrace	€1,200
	Semi-detached or end of terrace	€1,300
	Detached house	€1,500

GRANTS

Cavity wall insulation *Homes built and occupied before 2011*	Apartment (any)	€700
	Mid-Terrace	€800
	Semi-detached or end of terrace	€1,200
	Detached house	€1,700
Internal Insulation (Dry Lining) *Homes built and occupied before 2011*	Apartment (any)	€1,500
	Mid-Terrace	€2,000
	Semi-detached or end of terrace	€3,500
	Detached house	€4,500
External Wall Insulation (The Wrap) *Homes built and occupied before 2011*	Apartment (any)	€3,000
	Mid-Terrace	€3,500
	Semi-detached or end of terrace	€6,000
	Detached house	€8,000
BER		€50
Technical Assessment		€200

GRANTS

Grant name	Value	Example
Solar PV grant	€900 per kWp up to 2kWp	€1800 for 2kWp solar panels
	€300 for every additional kWp up to 4kWp	€2100 for 3kWp solar panels
	Total Solar PV grant capped at €2400	€2400 for 4kWp solar panels

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SUSTAINABLE ENERGY COMMUNITY

seai SUSTAINABLE ENERGY AUTHORITY OF IRELAND

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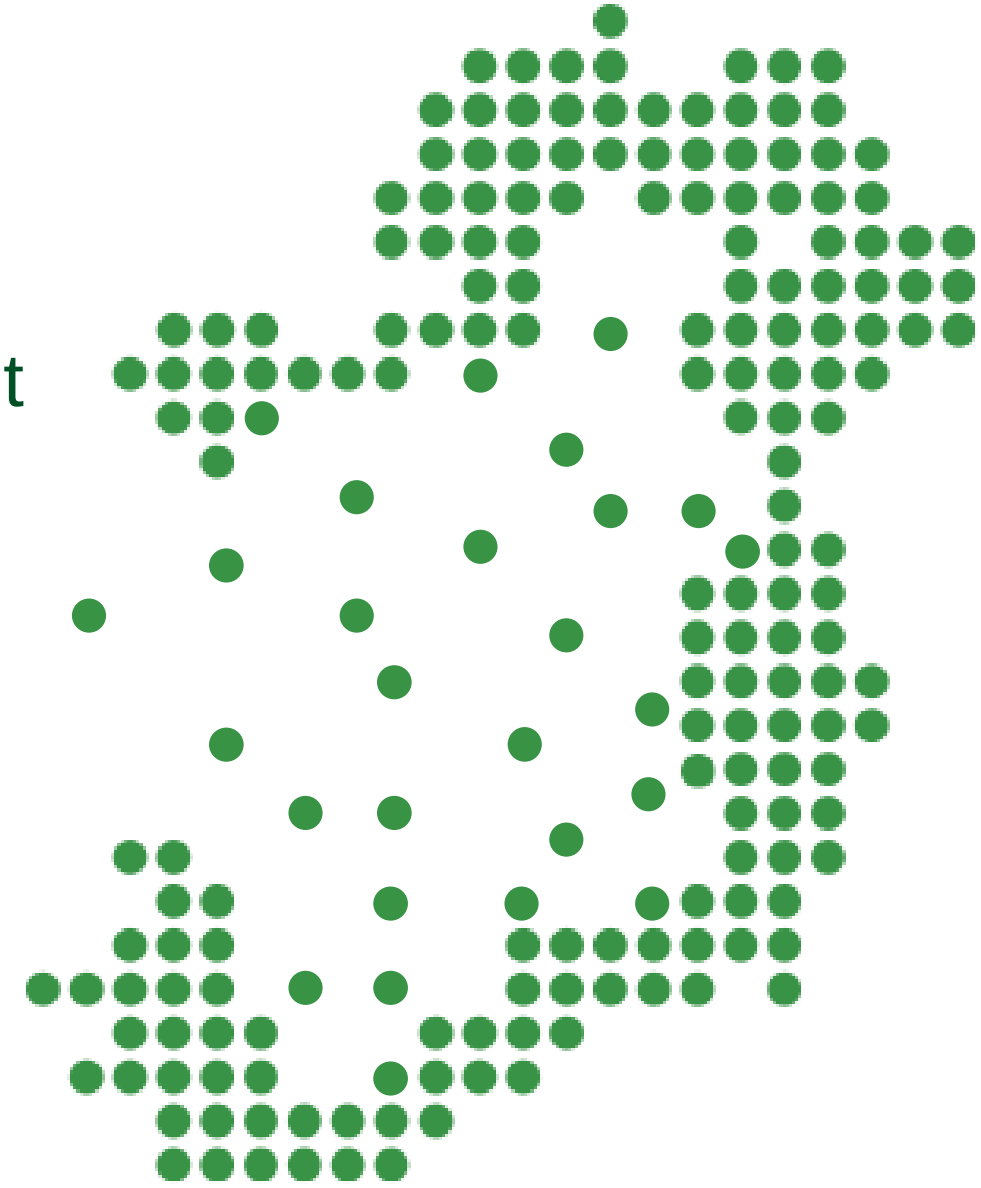
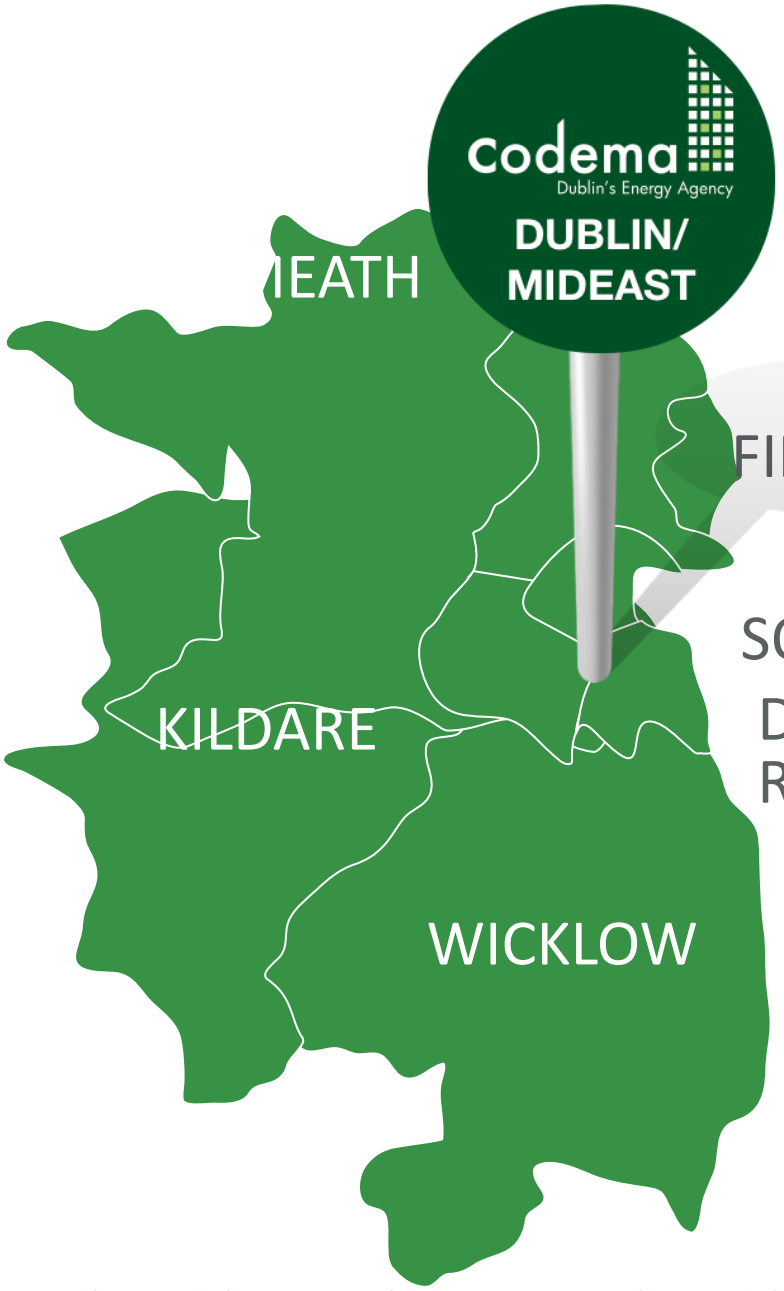
500 communities in the SEC Network throughout Ireland.

10 Active SECs in Wicklow.





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FINGAL

DUBLIN CITY

SOUTH DUBLIN

DÚN LAOGHAIRE–
RATHDOWN

Dublin & MidEast

A Sustainable Energy Community will help your community

- Lower energy bills
- Make homes and community buildings more comfortable
- Boost local employment opportunities
- Build community energy knowledge
- Help make your community a leader in sustainable energy

Learn

Network

Plan

Partnership

Do

Projects

The **Energy Master Plan** will help you

Identify Local Energy Projects

Large Buildings

Housing Stock

Industry and Large Employers

Sustainable Transport

Renewable Energy

Smart Energy

Energy Efficiency

GLENERGY
ENERGY FOR EVERYTHING

Questions

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