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?
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.
When was your home built?

- Before 1950: 26%
- 1950 - 1978: 26%
- 1979 - 1993: 11%
- 1994 - 2006: 23%
- After 2006: 9%
- Don't know: 5%

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

Grants are available to help you improve your home’s energy efficiency.
WHAT HAS STOPPED YOU FROM APPLYING FOR A GRANT

- I do not know enough about it: 47%
- I do not have access to the finance required: 34%
- I do not think I qualify: 19%
- The building process would be too much hassle: 18%
- The grant application process is too complicated: 12%
- I am not a homeowner and do not have the authority to make changes to my home: 11%
- I have no interest in improving my home: 1%

There are several grants available for upgrading your home.

Talk to the experts who are here today to give you advice!
## Are Any of the Follow Energy Efficiency Measures in Your Home?

<table>
<thead>
<tr>
<th>Measure</th>
<th>Yes</th>
<th>No</th>
<th>But I would be interested in upgrades</th>
<th>Not Currently of Interest / Relevant to My Home</th>
<th>I Don’t Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attic / roof insulation</td>
<td>73%</td>
<td>14%</td>
<td>5%</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Insulated windows / doors</td>
<td>70%</td>
<td>24%</td>
<td>4%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy efficient (LED) lighting</td>
<td>63%</td>
<td>29%</td>
<td>5%</td>
<td>3%</td>
<td></td>
</tr>
<tr>
<td>Energy efficient appliances</td>
<td>60%</td>
<td>28%</td>
<td>5%</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>Energy efficient heating system and controls</td>
<td>46%</td>
<td>38%</td>
<td>6%</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Underfloor insulation</td>
<td>22%</td>
<td>36%</td>
<td>26%</td>
<td>16%</td>
<td></td>
</tr>
<tr>
<td>Heat pump</td>
<td>20%</td>
<td>40%</td>
<td>22%</td>
<td>19%</td>
<td></td>
</tr>
<tr>
<td>Solar thermal panels (for hot water)</td>
<td>12%</td>
<td>62%</td>
<td>23%</td>
<td>3%</td>
<td></td>
</tr>
<tr>
<td>Solar photovoltaic (PV) panels (for electricity)</td>
<td>6%</td>
<td>65%</td>
<td>26%</td>
<td>3%</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: The percentages for each category are given in descending order of frequency.
Greenhouse Gas Emissions

2018: 64,000 tCO2e

Today 20th Sep
The U 13.00
Thank you
Sustainable Energy Communities

20th September, 2019 DCU
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:

Mentor Roles
Home Energy Kits

https://www.codema.ie/media/video/what-is-the-home-energy-saving-kit/
Home Energy Grant Programmes
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%
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

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

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
### Energy Efficiency Measures

<table>
<thead>
<tr>
<th>Insulation</th>
<th>Grant Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attic</td>
<td>€400</td>
</tr>
<tr>
<td>Wall - Cavity</td>
<td>€400</td>
</tr>
<tr>
<td>Wall - Internal Dry Lining</td>
<td>€1,600</td>
</tr>
<tr>
<td>Apartment (any) or Mid-terrace House</td>
<td>€1,600</td>
</tr>
<tr>
<td>Semi-detached or End of Terrace</td>
<td>€2,200</td>
</tr>
<tr>
<td>Detached House</td>
<td>€2,400</td>
</tr>
<tr>
<td>Wall - External</td>
<td>€2,200</td>
</tr>
<tr>
<td>Apartment (any) or Mid-terrace House</td>
<td>€2,750</td>
</tr>
<tr>
<td>Semi-detached or End of Terrace</td>
<td>€4,500</td>
</tr>
<tr>
<td>Detached House</td>
<td>€6,000</td>
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</table>

<table>
<thead>
<tr>
<th>Heat Pump Systems</th>
<th>Grant Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air-to-water / Ground-to-water</td>
<td>€3,500</td>
</tr>
<tr>
<td>Air-to-air</td>
<td>€600</td>
</tr>
<tr>
<td>*Technical Advisor</td>
<td></td>
</tr>
<tr>
<td>(*only in conjunction with the Heat Pump System grant)</td>
<td>€200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Heating Controls</th>
<th>Grant Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>**</td>
<td>€700</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solar Thermal</th>
<th>Grant Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>**</td>
<td>€1,200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bonus Grant</th>
<th>Grant Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>For 3rd measure</td>
<td>€300</td>
</tr>
<tr>
<td>For 4th measure</td>
<td>€100</td>
</tr>
</tbody>
</table>

** Building Energy Rating (BER) | Grant Value |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>**</td>
<td>€50</td>
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</table>

**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
Better Energy Homes

Join over 375,000 Irish homeowners who have reduced their
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

<table>
<thead>
<tr>
<th>Solar PV</th>
<th>Battery Storage System</th>
</tr>
</thead>
<tbody>
<tr>
<td>€700 / kWp</td>
<td>€1,000</td>
</tr>
</tbody>
</table>

- €700 for every kWp up to max 4kWp.
- Any installation over 2kWp must install a battery.
Attic insulation, Heat pump, Mechanical ventilation system
PV Panel
Ext Wall Insulation
New Door
New Windows
New Windows
New Wall Insulation
New PV Panel
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 I 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?

Building Energy Rating Certificate (BER)

What is a BER certificate?

A Building Energy Rating (BER) certificate indicates your building's energy performance, 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 into consideration. This is based on the average number of occupants in buildings of a similar size.

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.

<table>
<thead>
<tr>
<th>List Price of Approved EV</th>
<th>Grant Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>€14,000 – 15,000</td>
<td>€2,000</td>
</tr>
<tr>
<td>€15,000 – 16,000</td>
<td>€2,500</td>
</tr>
<tr>
<td>€16,000 – 17,000</td>
<td>€3,000</td>
</tr>
<tr>
<td>€17,000 – 18,000</td>
<td>€3,500</td>
</tr>
<tr>
<td>€18,000 – 19,000</td>
<td>€4,000</td>
</tr>
<tr>
<td>€19,000 – 20,000</td>
<td>€4,500</td>
</tr>
<tr>
<td>Greater than €20,000</td>
<td>€5,000</td>
</tr>
</tbody>
</table>
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
Over **420,000 homeowners** have already received grants from SEAI

- Can help cut Energy bills
- Increase the value of your home
- Make your home warm & comfy
Questions