DCU Sustainable Energy Community

Sustainable Energy Community (SEC)
27 November 2019
Agenda

1. Welcome & Review
2. Energy Audit Reports
3. SEC Supports
4. SEAI Grant
5. Next steps
Questions
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?

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

- **27%** Before 1950
- **11%** 1979 - 1993
- **9%** After 2006

**Pre 1900**

Grants are available to help you improve your home’s energy efficiency

**1950 - 1978**

**26%**

**1994 - 2006**

**23%**

**2019**

**4%** Don’t know?
WHAT HAS STOPPED YOU FROM APPLYING FOR A GRANT

- I do not know enough about it: 34%
- I do not have access to the finance required: 24%
- I do not think I qualify: 13%
- The building process would be too much hassle: 12%
- The grant application process is too complicated: 8%
- I am not a homeowner and do not have the authority to make changes to my home: 7%
- 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 following energy efficiency measures in your home?

<table>
<thead>
<tr>
<th>Measure</th>
<th>Yes</th>
<th>No But I would be interested in upgrades</th>
<th>No Not currently of interest / relevant to my home</th>
<th>I don’t know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy efficient appliances</td>
<td>60%</td>
<td>29%</td>
<td>4%</td>
<td>7%</td>
</tr>
<tr>
<td>Solar thermal panels (for hot water)</td>
<td>11%</td>
<td>64%</td>
<td>22%</td>
<td>3%</td>
</tr>
<tr>
<td>Solar photovoltaic (PV) panels (for electricity)</td>
<td>5%</td>
<td>67%</td>
<td>25%</td>
<td>2%</td>
</tr>
<tr>
<td>Energy efficient (LED) lighting</td>
<td>63%</td>
<td>29%</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td>Underfloor insulation</td>
<td>22%</td>
<td>37%</td>
<td>26%</td>
<td>15%</td>
</tr>
<tr>
<td>Attic / roof insulation</td>
<td>73%</td>
<td>15%</td>
<td>4%</td>
<td>8%</td>
</tr>
<tr>
<td>Insulated windows / doors</td>
<td>71%</td>
<td>24%</td>
<td>2%</td>
<td>4%</td>
</tr>
<tr>
<td>Heat pump</td>
<td>21%</td>
<td>41%</td>
<td>21%</td>
<td>18%</td>
</tr>
<tr>
<td>Energy efficient heating system and controls</td>
<td>48%</td>
<td>37%</td>
<td>6%</td>
<td>9%</td>
</tr>
</tbody>
</table>
Energy Audits

1910 Mid-terrace house

1950s Detached

1930s Semi-Detached

1928 End-of-terrace
Average BER Rating

- Dwelling - Current Condition
- Timber Front Door - uninsulated
- Door upgrade + Air Tightness test
- Door upgrade, Air tightness & Heating
- Full upgrade

Energy Usage (kWh/m²/yr)
Average BER Rating

- Dwelling - Current Condition: D1
- External/Internal Wall insulation: D1
- Joist level insulation: D1
- Partially Glazed Door - uninsulated: C2
- Complete Fabric Upgrade: C2
- Complete fabric + Air Tightness: C2
- Fabric & Heating: B2
- Fabric, Heating & Renewable: B1

Energy Usage (kWh/m²/yr)
SEC Supports: Energy Audits

—This is a sample list of companies that undertake energy audits

Codex Energy    Dublin 11    +353 (1) 8665151    www.codexenergy.ie

XD Consulting    Co. Cork    +353 (0)86 0476124    https://xdconsulting.eu/

IHER                   Dublin 3    (01) 454 8300    http://iher.ie/
Energy Partners

Who is an Energy Partner
An Energy Partner is a contractor who is both registered to carry out works under the Home Energy Grants programme and authorised by SEAI to submit grant applications on behalf of homeowners.

Why apply through an Energy Partner?
The benefit of applying for a grant through a registered Energy Partner is that they will manage the grant application process and submission of all grant related paperwork on your behalf. The grant is paid directly to the Energy Partner, who in turn passes on the grant savings in the form of a discount to you on the cost of works being carried out by them.
<table>
<thead>
<tr>
<th>Energy Partner</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accuflow</strong></td>
<td>0818 222 926</td>
</tr>
<tr>
<td><strong>Actavo</strong></td>
<td>01 464 8885</td>
</tr>
<tr>
<td><strong>Activ8</strong></td>
<td>042 969 0352</td>
</tr>
<tr>
<td><strong>Airtricity Home Energy Services</strong></td>
<td>1850 818 170</td>
</tr>
<tr>
<td><strong>House2Home</strong></td>
<td>1800 282 282</td>
</tr>
<tr>
<td><strong>Kingspan</strong></td>
<td>042 975 4262</td>
</tr>
<tr>
<td><strong>Retrofit Ireland</strong></td>
<td>01 801 0140</td>
</tr>
</tbody>
</table>
Credit Unions/Building Society/Banks

Green Home Improvement Loans

**Typical Features:**
- Amounts from €1,000 – €65,000 (depending on bank/BS)
- Loan terms from 1 to 10 years depending on amt
- Flexible repayment options
- No need to hold any savings against your loan in most cases!
- Work being undertaken must include one of the below to qualify for Green home improvement loan:
  - Renewable Energy Upgrade (e.g. solar panels)
  - Attic/Floor/Wall Insulation
  - Pipe Insulation
  - Sustainable water/heating systems
  - Boiler Upgrade
  - Installation of energy efficient controls in the home
  - Door/Window Replacement
- Proof of work being undertaken will be required.
- Check with your local Credit Unions/Building Society/Banks for full details
SEAI Home energy grants
DCU       Wednesday 27th November, 2019
• **Warmer Homes Scheme**
  - free energy efficiency upgrades for low income households

• **Better Energy Homes Scheme**
  - All homeowners, including landlords, homes built & occupied before 2006

• **Warmth and Wellbeing Pilot Scheme (Dublin Only)**
  - aims to improve living conditions of people living with chronic respiratory conditions

• **Community Grant Programme**
  - community energy efficiency projects

• **Electric Vehicle Grant + Home Charger Grant**
  - electric vehicle grants make it more affordable to switch to an EV

• **Solar Photovoltaic (PV) Grant**
Warmer Homes Scheme

Who is it for:
- Fuel Allowance as part of the National Fuel Scheme.
- Job Seekers Allowance for over six months and have a child under seven years of age
- Working Family Payment
- One-Parent Family Payment
- Domiciliary Care Allowance
- Carers Allowance and live with the person you are caring for

Delivered Free of Charge
Must own and live in the home treated, which must have been built and occupied before 2006

What is offered:
- Attic insulation
- Wall insulation
- Lagging jackets & Energy advice
- Draught proofing
- Low energy light bulbs
- Windows*
- Heating upgrade*
*Subject to survey

How to apply:
Website https://www.seai.ie/grants/home-energy-grants/free-upgrades-for-eligible-homes/

or Freephone 1800 250 204
Better Energy Homes

Who is it for:
• All homes built before 2006

What is offered:
• Insulation: attic insulation & wall insulation
  (cavity fill, internal dry lining, external)
• Heating: controls upgrade, heat pumps, solar hot water

How to apply:
Apply online https://www.seai.ie/grants/home-grants/better-energy-homes/

or call 01 808 2100
<table>
<thead>
<tr>
<th>Measures</th>
<th>Energy Efficient Measures</th>
<th>Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation</td>
<td>Attic insulation</td>
<td>€400</td>
</tr>
<tr>
<td></td>
<td>Cavity wall insulation</td>
<td>€400</td>
</tr>
<tr>
<td><strong>Internal Insulation (Dry Lining)</strong></td>
<td>Apartment (any) OR Mid-terrace House</td>
<td>€1,600</td>
</tr>
<tr>
<td></td>
<td>Semi-detached OR End of Terrace</td>
<td>€2,200</td>
</tr>
<tr>
<td></td>
<td>Detached House</td>
<td>€2,400</td>
</tr>
<tr>
<td><strong>External Wall Insulation ('The Wrap')</strong></td>
<td>Apartment (any) OR Mid-terrace House</td>
<td>€2,750</td>
</tr>
<tr>
<td></td>
<td>Semi-detached OR End of Terrace</td>
<td>€4,500</td>
</tr>
<tr>
<td></td>
<td>Detached House</td>
<td>€6,000</td>
</tr>
<tr>
<td><strong>Heating System</strong></td>
<td>Heating Controls Upgrade</td>
<td>€700</td>
</tr>
<tr>
<td><strong>Heat Pump</strong></td>
<td>Air/Ground to Water system</td>
<td>€3,500</td>
</tr>
<tr>
<td></td>
<td>Air to Air system</td>
<td>€600</td>
</tr>
<tr>
<td><strong>Solar Thermal</strong></td>
<td>Solar Thermal</td>
<td>€1,200</td>
</tr>
<tr>
<td><strong>Building Energy Rating (BER)</strong></td>
<td></td>
<td>€50</td>
</tr>
</tbody>
</table>

https://www.seai.ie/grants/home-energy-grants/
Warmth and Wellbeing Pilot Scheme

It aims to provide free, extensive energy efficiency upgrades to eligible homes making the home warmer and cosier to live in benefitting your overall health and wellbeing.

Who is it for:
- Reside in Dublin 8, 10, 12, 22, 24
- Referral by HSE official
- Chronic respiratory disease
- Aged 0-12 years or > 55 years
- Fuel allowance
- One parent family payment
- Owner occupied or rented from local authority / approved housing association

What is offered:
- Attic - insulation and ventilation
- Walls – insulation and ventilation
- Boiler – replacement, including heating controls
- Windows and doors – replacement where inefficient

How to apply:
or Freephone SEAI 1800 250 204
or HSE 01 427 5032
Communities Grant Programme

• Who is eligible:
  • Partnerships, competitive process

• What is it for:
  • Community wide, fabric first, multiple measures per home

• How much is the grant:
  • First come first served – up to 50% funding available

• How to apply:
  https://www.seai.ie/grants/community-grants/
Attic insulation, Heat pump, Mechanical ventilation system

PV Panel

Bxt Wall Insulation

New Door

Windows
Electric Vehicle Grants

**EV Grant**

**Who is eligible:**
- Commercial and private purchasers

**What is it for:**
- New Battery Electric Vehicles (BEV) and
- Plugin Hybrid Electric Vehicles (PHEV)

**How much is the grant:**
- Depends on cost of the car (Max €5,000)

**How to apply:**
- Your car dealer will apply for you

[https://www.seai.ie/grants/electric-vehicle-grants/](https://www.seai.ie/grants/electric-vehicle-grants/)

**EV 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

[https://www.seai.ie/grants/electric-vehicle-grants/electric-vehicle-home-charger-grant/](https://www.seai.ie/grants/electric-vehicle-grants/electric-vehicle-home-charger-grant/)
Solar PhotoVoltaic (PV) Grant

Who is it for:
• All homes built and occupied before 2011

What is offered:
• Solar PV Systems €700/kWp (up to max 4kWP)
• Battery Storage* €1,000
*Required for any install over 2kWp

How to apply:
Apply online https://www.seai.ie/grants/home-grants/solar-pv/
or call 01 808 2100
Which grant is for me?
33% Walls
18% windows
3% doors
12% Ventilation & Draughts
8% floors

BER Rating
A: €380
B: €800
C: €1,300
D: €1,850
E: €2,450
F: €3,200
G: €4,000

Annual fuel costs of an average house per year
SEAI Grant Guidance

What’s best for your home?

- Step 1: Decide
- Step 2: Choose a registered Technical Advisor
- Step 3: Choose a registered contractor
- Step 4: Apply
- Step 5: Get the works done
- Step 6: Get paid

https://www.seai.ie/grants/home-energy-grants/how-to-apply/
Who can help?

Local SECs:
- Energy Master Plan – find out if you can participate
- Join in Community Grant projects

SEAI:
- Guidance on grant schemes
- Referral to Energy Partners

https://www.seai.ie/grants/home-energy-grants/how-to-apply/energy-partners/
How to participate

1. Keep in touch
2. Be ready for energy surveys – get all your bills together
3. Community Energy Workshops
4. Tell family, friends & neighbours
1 small thing & 1 BIG Thing

**Small thing ideas:**
- Change all bulbs in living room & kitchen to LED
- Remote sockets on TV/DVD/Skybox
- Draught strips on front and back door

**BIG Thing ideas:**
- Roof and wall insulation
- Heating controls – zoning
- Fit a stove in the open fireplace
- Solar Thermal system
- Heat pumps (if already well insulated)
- Electric Car and Charger
Energy Audits completed
<table>
<thead>
<tr>
<th>1930s End of Terrace : Upgrade</th>
<th>Capital Cost</th>
<th>Communities Grant</th>
<th>Grant Value</th>
<th>Cost</th>
<th>Individual Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulated Door</td>
<td>€ 2,023.00</td>
<td>35%</td>
<td>€ 708.05</td>
<td>€ 1,314.95</td>
<td>€</td>
</tr>
<tr>
<td>Air Tightness testing</td>
<td>€ 2,373.00</td>
<td>35%</td>
<td>€ 830.55</td>
<td>€ 1,542.45</td>
<td>€</td>
</tr>
<tr>
<td>ASHP plus heating controls</td>
<td>€ 11,581.00</td>
<td>35%</td>
<td>€ 4,053.35</td>
<td>€ 7,527.65</td>
<td>€ 4,200.00</td>
</tr>
<tr>
<td>Solar PV</td>
<td>€ 3,500.00</td>
<td>35%</td>
<td>€ 1,225.00</td>
<td>€ 2,275.00</td>
<td>€ 1,400.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>House 2: Upgrade</th>
<th>Capital Cost</th>
<th>Communities Grant</th>
<th>Grant Value</th>
<th>Cost</th>
<th>Individual Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor Insulation</td>
<td>€ 5,663.00</td>
<td>35%</td>
<td>€ 1,982</td>
<td>€ 3,681</td>
<td>€</td>
</tr>
<tr>
<td>Attic Insulation</td>
<td>€ 1,915.00</td>
<td>35%</td>
<td>€ 670</td>
<td>€ 1,245</td>
<td>€ 400.00</td>
</tr>
<tr>
<td>External Flat Roof Insulation</td>
<td>€ 2,064.00</td>
<td>35%</td>
<td>€ 722</td>
<td>€ 1,342</td>
<td>€</td>
</tr>
<tr>
<td>External Wall Insulation</td>
<td>€ 23,541.00</td>
<td>35%</td>
<td>€ 8,239</td>
<td>€ 15,302</td>
<td>€ 6,000.00</td>
</tr>
<tr>
<td>Windows and Doors upgrades</td>
<td>€ 16,897.00</td>
<td>35%</td>
<td>€ 5,914</td>
<td>€ 10,983</td>
<td>€</td>
</tr>
<tr>
<td>ASHP plus heating controls</td>
<td>€ 11,581.00</td>
<td>35%</td>
<td>€ 4,053</td>
<td>€ 7,528</td>
<td>€ 4,200.00</td>
</tr>
<tr>
<td>Solar PV</td>
<td>€ 3,500.00</td>
<td>35%</td>
<td>€ 1,225</td>
<td>€ 2,275</td>
<td>€ 1,400.00</td>
</tr>
</tbody>
</table>
Questions

Nicola Murphy
Nicola.Murphy@planenergy.co.uk
Next Steps

- Gather your energy bills
- Get an energy audit
- Identify potential funding sources
- Bring bills, audit etc to next Workshop in January/February 2020
Thank you

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