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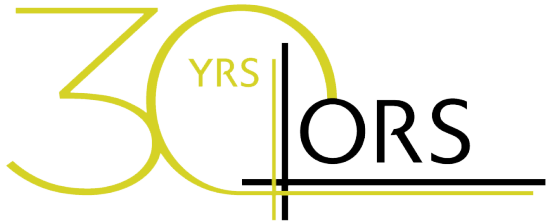
26th Aug 2021

Society of Chartered Surveyors Ireland

Webinar Agenda

- Introductions – SEC Mentor & Overview
- ‘Learn’ Stage actions
- ‘Plan’ Stage actions
- SECs – Potential Actions & Next Steps
- Supports & Resources / Training



- CIVIL & STRUCTURAL ENGINEERING
- PROJECT MANAGEMENT
- INFRASTRUCTURE
- HEALTH & SAFETY MANAGEMENT
- BUILDING SURVEYING
- ASSIGNED CERTIFIER
- FIRE SAFETY
- ENVIRONMENTAL
- ENERGY SERVICES

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Energy Services

- Public Sector Energy Support
- SEC Energy Master Plans
- SEC's (Mentoring)
- Grant Evaluation & Inspection
- Renewable Energy Projects
- Energy Audits
- SI 426 Compliance
- ISO 50001 Energy Management System
- TGD L/NZEB Design & Certification
- Energy Project Management

ORS are Mentors for Midlands Region

- Midlands Regional Coordinator: Isabella Donnelly
- Co. Offaly: 11 SEC's; Mentor - Laurence O'Reilly
- Co. Laois: 27 SEC's; Mentor – Mark Robertson
- Co. Longford: 8 SEC's; Mentor – Hugh Baxter
- Co. Westmeath: 13 SEC's; Mentor - Isabella Donnelly

- ORS Senior Energy Consultant & Team Lead
- l.oreilly@ors.ie

SEAI – Sustainable Energy Authority of Ireland

SEAI
Ireland's national sustainable energy authority.

We work with householders, businesses, **communities** and government to create a cleaner energy future

5 Year Strategy (2017 -2021) - Ireland's energy will be sustainable, secure, affordable and clean

1. **Use Less** – reduce energy consumption, increase energy efficiency

2. **Use Clean** – utilise natural resources, renewable sources, reduce reliance of fossil fuels

3. **Innovate** – new approaches

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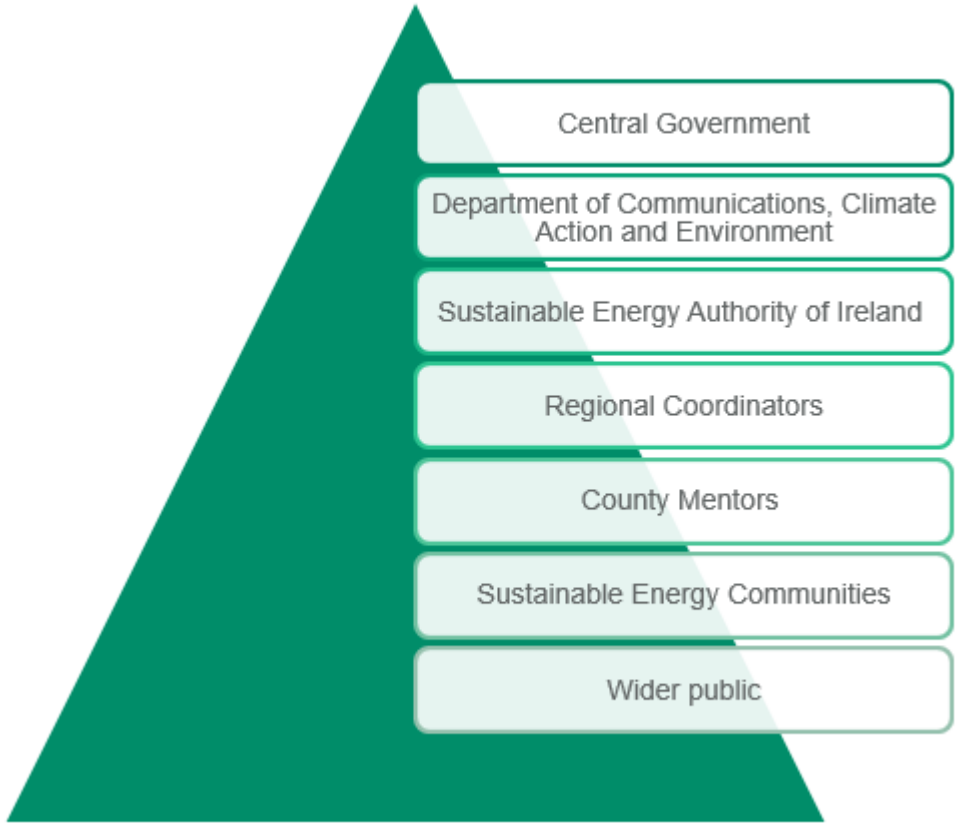
SEAI & SEC Community Network



SEAI is a public agency implementing sustainable energy policy on behalf of the government.

Sustainable Energy Communities – a government funded support programme for communities who want to become more sustainable in their energy use

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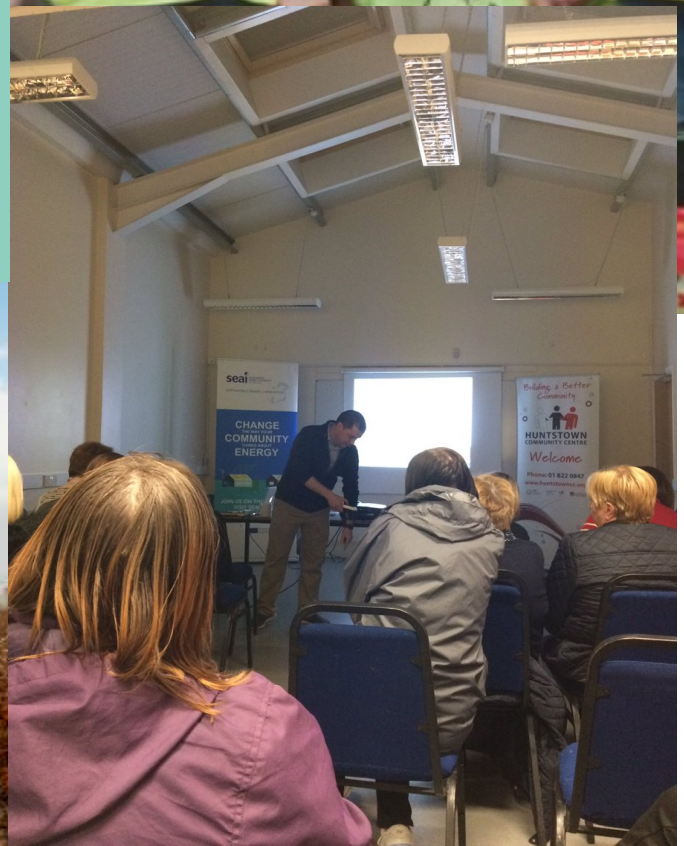
WHY ARE COMMUNITIES IMPORTANT IN THE ENERGY TRANSITION?



Why are communities important in the energy transition?

- The energy transition and climate action is more than just a technological revolution - it's also a **social** one.
- Communities have a huge social influence - GAA, Tidy Towns, technology opposition groups – they can be **enablers** or change, or indeed obstacles to change
- Community groups are at the heart of cultural nuance - they are aware of the **local and historical sensitivities**
- Community groups have a relationship of **trust and communication** in their wider communities, people who might otherwise never engage in the energy transition.
- Communities contain a **wide variety of energy users**, with different needs, different levels of understanding, different abilities to change.
- Communities are multi-generational – older generations want to leave a **better legacy** for the younger ones.

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What is a Sustainable Energy Community

A Sustainable Energy Community (SEC) is a group of people in which everyone works together to develop a sustainable energy system for the benefit of the community. This is achieved by:

Aiming, as far as possible, to be energy efficient	Using renewable energy where feasible	Adopting smart energy solutions

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Benefits of joining the Sustainable Energy Community network?

Renovations in your community	Save money on energy bills	Score better in the Tidy Towns competition	Climate Action
Healthier buildings for vulernable people e.g. creches, nursing homes, assisted living facilities	Support duty of care e.g. Housing associations	Better behavioural change in the community	Support other projects or networks you're involved in e.g. Eco-congregations
Brings the community together	Heard about positive experience of other SEC's	Have specific projects under consideration	Many others....

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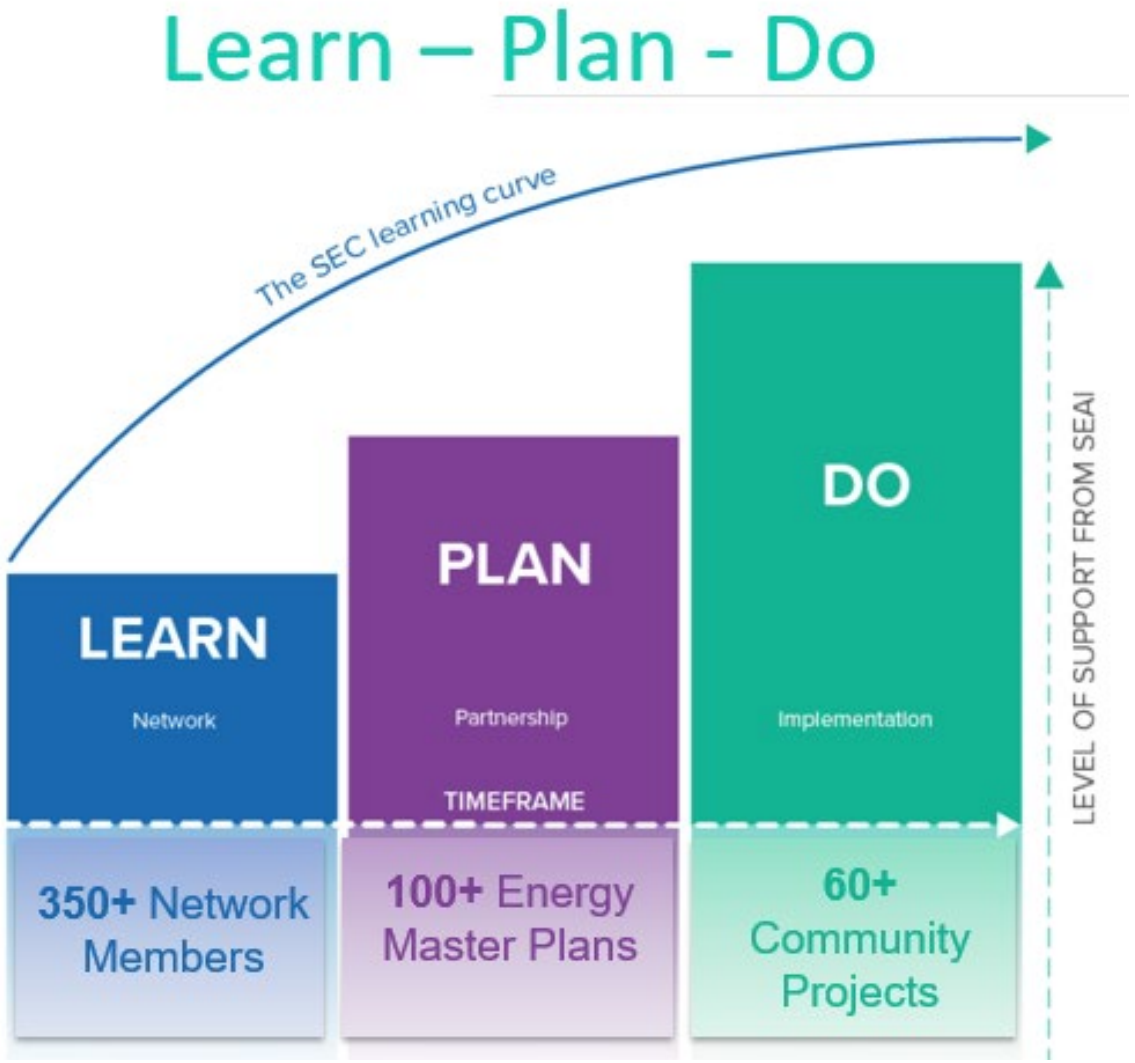
SEC Learning Curve



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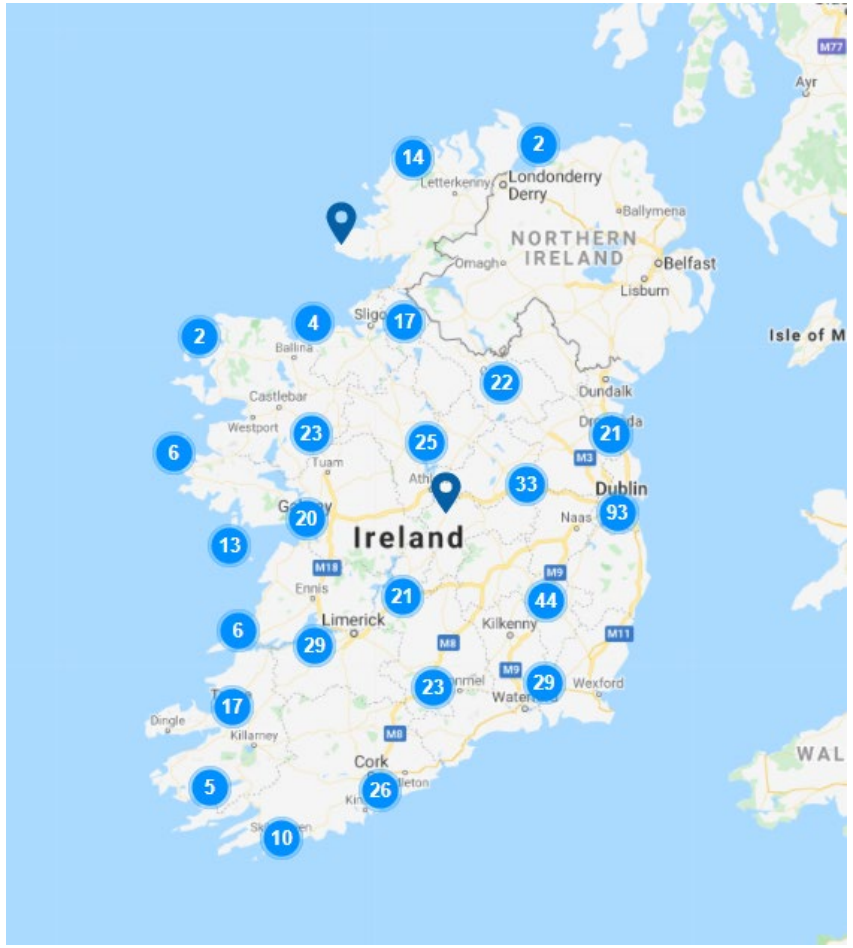
‘LEARN’ Stage - Actions

Benefits of the LEARN Step – Joining the Network

- Mentoring
- Learning supports
- Get in touch with other communities who have common interests
- 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
- Learn about behavioural changes that can save energy in the community



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‘Learn’ Stage actions

Build your SEC Team

- How many people?
- Representation from different sectors, e.g. local business, sports clubs, schools etc.
- Beware of volunteer fatigue – try to get new members from time to time
- Give everyone a role – even a small task
- What skills does the team have/need?

‘Learn’ Stage actions

- Split research tasks to build knowledge:
  - Grant schemes
  - Finance (e.g. Credit Union, ‘Green’ mortgages)
  - Electric Vehicles
  - Local stakeholder mapping – No. homes, No. of businesses
- Share knowledge internally
  - Team briefings
  - Online share platforms e.g. Google Drive
- Complete your *Community Charter*
- SEAI Academy Training

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‘Learn’ Stage actions

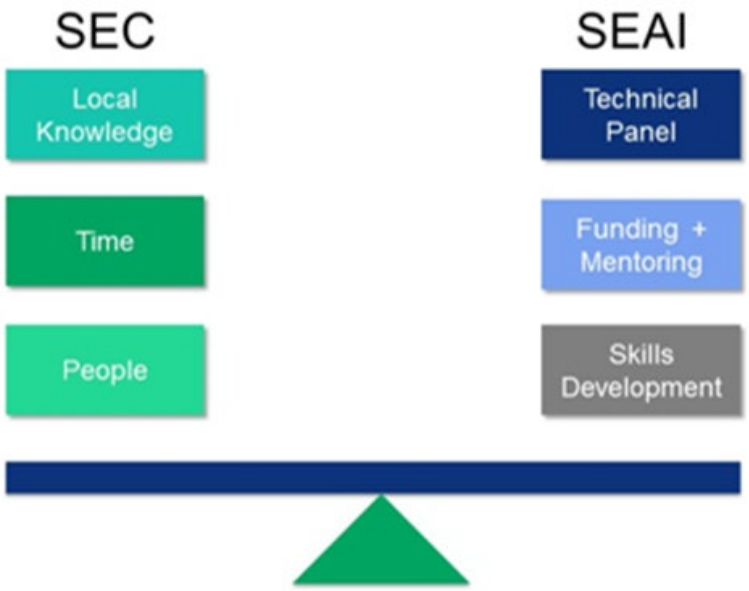
Engage your community

- Raise awareness
  - Flyers
  - Events
  - Surveys
- Look for local support
  - Fund raising events
  - Local sponsors
- Contact other SECs to share knowledge

‘PLAN’ Stage - Actions

Benefits of the Plan step - Energy Master Plan

- Receive further mentoring support
- ***Community Charter*** – vision statement for local energy goals
- ***Competency Assessment*** – see where the strengths and weaknesses are
- ***Energy Master Plan*** funding – dedicated funding for the community to develop an energy plan for the community
- Learn what exactly your community needs to do to become more sustainable in its energy use and develop a register of opportunities.
- See what projects will save the most energy at least cost, and go from there



Community Charter & Competency Assessment

Community Charter

The Bally Town Co-operative

Bally Town Logo

Our Vision...
Is to build a resilient, energy efficient community and a thriving local economy where everyone works together to create a more sustainable energy system.

Vision Statement

We will do this by...
Improving the energy performance of our buildings, increasing our use of renewable energy, promoting better energy choices and sustainable transport.

Elaborated Vision/ Goals

We will work together...
With all of our community representatives, energy users and the SEC Network to help maximise impact, share resources and knowledge. We will work to ensure Bally Town becomes widely recognised as being a leader in reducing carbon emissions in a rural town setting.

Guiding Principles

We commit to...

- Collaborate to improve our energy efficiency by a minimum of 3% on average every year, for at least the next three years.
- Achieve 5% of our energy supply from renewable sources by 2020.
- Maintain records of energy use in our target buildings and homes to track and report annually on our progress.
- Collaborate with the SEC Network and SEAI to provide feedback, share knowledge and contribute to the national movement for Sustainable Energy Communities.
- Ensure there is a long-term strategy for Bally Town to promote a roadmap of integrated initiatives and continuous improvement.

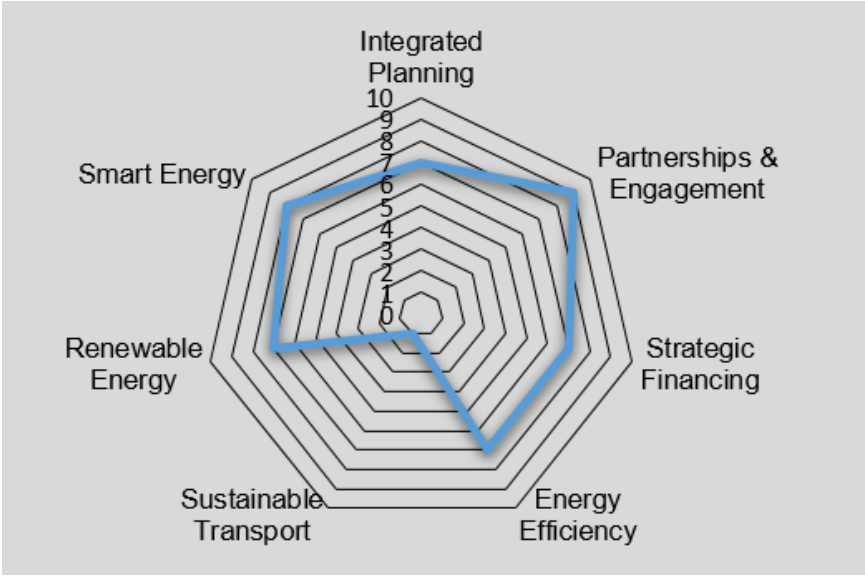
Commitments

We the undersigned are fully supportive of the vision, aims and commitments outlined above. We sign this Community Charter on behalf of:

Bally Town Co-operative — **11th September 2016**

Signature: | Position / Title: | Signature: | Position / Title:

Competency Assessment



Indicator	Y / N	Guiding Questions
Project Roadmap		Have you created a Year 1 workplan outlining goals, priorities and key actions?
		Have you developed a three-year project roadmap?
Coordination with Policy		Have you been in contact with local, regional, or national authorities and institutions?
		Have you ensured your efforts are coordinated and strategically fit with spatial planning and policy?
Stakeholder Strategy		Are you engaging in ongoing stakeholder mapping - to identify potential partners, supporters and challengers?
		Have you developed a strategy to connect and align with key stakeholders?
Synergy		Are you planning to integrate projects across different areas (e.g. Energy Efficiency and Transport)?
		Have you already begun to do this?
Data Collection + Analysis		Have you developed an integrated system of data collection across all elements of the initiative?
		Have you established a methodology to ensure an annual review of progress towards goals?

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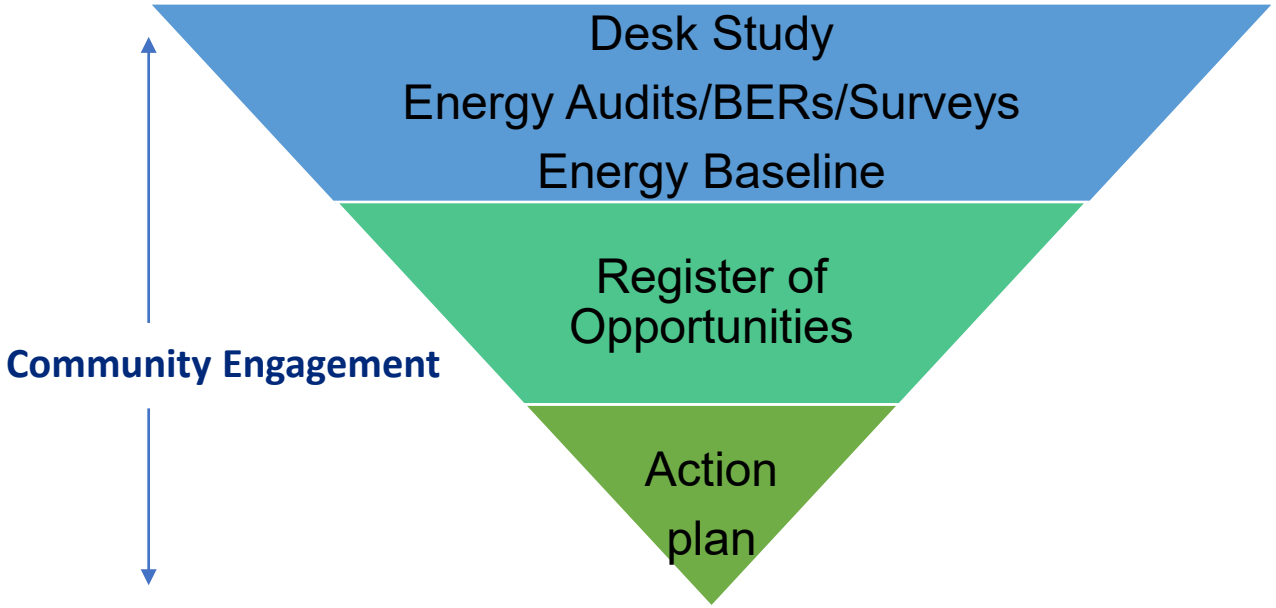
Energy Master Plan

Upon completion of an Energy Master Plan, a community should have:

- a good understanding of how energy is used locally,
- be able to prioritise opportunities,
- have at least a medium-term action plan outlining the practical actions in order to avail of these opportunities.



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Energy Master Plan – Funding Levels

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Sample Opportunities & Actions

- Energy efficiency measures – behavioural changes
- Energy Awareness & Training
- Lighting Upgrades
- Fabric Upgrades;
  - Internal & external insulation,
  - Windows & doors replacement
- Systems Upgrades
  - Efficient boilers
  - Building management systems (BMS); Heating Controls
- Renewable Electricity Generation – Solar PV / Microgeneration
- Renewable Heat Generation – Solar Thermal / Biomass / Biogas

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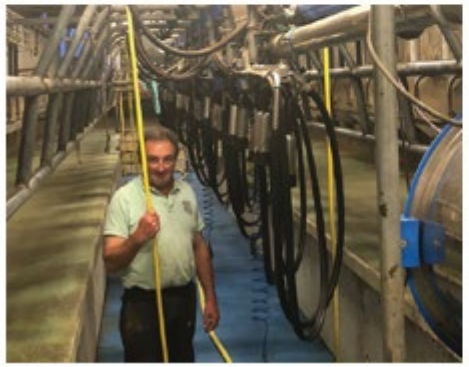
Benefits of the Do step – Community Energy Projects

- **Health** – such as a switch from diesel to electric vehicles reducing local emissions of particulates in car exhaust emissions and improving air quality. Warmer homes and buildings can also aid the health of vulnerable people in the community.
- **Environmental** – moving away from a fossil fuel dependent local energy system is important for the environment, and helps the community become more climate change resilient for current and future generations.
- **Economic** – developing employment opportunities associated with energy supply or enhanced efficiency. Energy efficient buildings are also cheaper to run.
- **Social** – warmer, more comfortable buildings are more likely to be used by the community.
- **Strategic** – you can position your community to avail of opportunities in current and future energy policy, local area plans and future development on a national or regional scale.



SEC's - Potential Actions & Next Steps

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Potential Actions & Next Steps

1. Register as a Sustainable Energy Community → **SEC Registration**

2. Have you got your team together?

3. Have you identified stakeholders?

4. Have you held local events or surveys?

5. Community Charter
Competency Assessment
EMP Application

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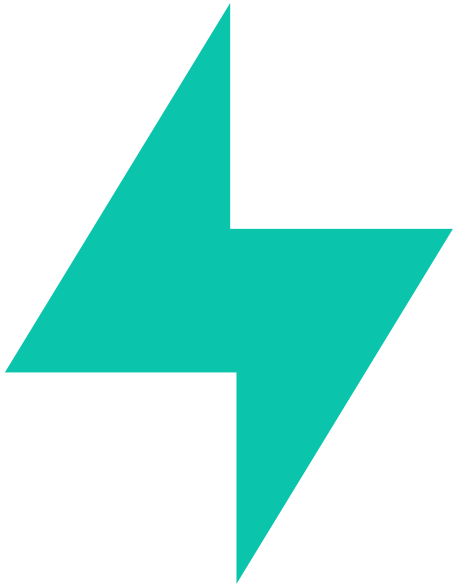

Supports & Resources / Training

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Residential

Insulation Grant

A home can lose over 30% of its heat through poorly insulated walls. Grants include cavity, internal and external wall insulation, along with attic insulation grants.

Find out more >

Heat Pump System Grant

An attractive alternative to fossil fuel heating systems, transforming home comfort levels, offering lower costs and reduced carbon emissions.

Find out more >

Heating Controls Grant

Reduce your energy usage by up to 20% and save costs with home heating controls.

Find out more >

Solar Water Heating Grant

Solar thermal systems are designed to meet 50-60% of your overall hot water requirement over the year, thereby saving you money on your annual hot water heating bills.

Solar Electricity Grant

We are delighter to offer homeowners a grant of up to €3,800 to support the installation of solar panels for electricity generation and battery energy storage systems.

How to apply

Once you have looked at our range of grants, you may wish to talk to a good building contractor, architect, BER Assessor or energy advisor. See everything you need to do to apply.

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Communities Grant

- Supports innovative delivery approach at community level
- Competitive evaluation process – think diversity!
- Balancing domestic, commercial, not for profit projects
- Energy efficiency, renewable measures & project costs
- Varying funding levels
- Further information at: https://www.seai.ie/grants/community-grants/

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€25.3m	57	34,676
Total government grant funding offered in 2019	Total number of projects supported in 2019	Tonnes of CO2 reduced annually

Business Grants/Supports

- Support Scheme for Renewable Heat (SSRH)
- Triple E-Register
- Energy Efficiency Obligation Scheme
- Excellence in Energy Efficiency Design (EXEED)

About the Support Scheme for Renewable Heat

The primary objective of the support scheme for renewable heat is to increase the level of renewable energy in the heat sector. This will contribute to meeting Ireland's 2020 renewable energy targets whilst also reducing greenhouse gas emissions. The government funded scheme will support the adoption of renewable heating systems by **commercial, industrial, agricultural, district heating, public sector and other non-domestic heat users** not covered by the emissions trading system.

BENEFITS OF SELECTING A TRIPLE E PRODUCT

Reduced energy costs

Investing in energy efficient equipment will help you reduce your energy costs over the lifetime of the product. Savings usually far outweigh the capital costs of purchasing the equipment.

Confidence

You can be confident that equipment has met a minimum recognised testing standard.

Best in class products

Triple E Register generally lists equipment that performs within the top 15% of similar products in terms of energy efficiency.

Reduced carbon emissions

Triple E listed equipment lowers your carbon footprint through reduced energy consumption.

EXEED Certified Distinctions

EXEED offers three distinctions of certification providing levels of certainty and assurance of sustained energy savings.

EXEED Designed

This certifies the asset as designed, constructed, commissioned and operational, and handed over to the owner/operator.

The requirement for this certification is based primarily on Irish Standard I.S.399:2014 Clause 8 – Operation.

This certificate has a life span of five years, unless the asset progresses to EXEED Verified or EXEED Managed.

EXEED Verified

This certifies the asset against measured and verified energy performance with quantified avoided energy consumption substantiated.

The additional requirement for this certification is based on International Standard ISO 50015:2014.

This certificate has a life span of three years, unless the asset is re-certified to EXEED Verified or progresses to EXEED Managed.

EXEED Managed

This certifies the asset at full operational conditions. It incorporates the requirements of energy management and continual improvement of energy performance.

The additional requirement for this certification is based on ISO 50001.

This certificate remains valid providing ISO 50001 Certification is maintained.

Eligible measures include:

Lighting Decommissioning, maintenance, retrofit and controls.	**Ventilation and air conditioning** Free cooling, maintenance, optimisation of operation and general energy management.	**Transport** Eco-driving, fleet and energy management.
Heating Servicing, set point regulation, control and fabric upgrade.	**Motors, drives and pumps** Replacement, VSDs and control.	**Combined heat and power** To meet 'own use' heat and electricity demand.
Refrigeration Temperature control, pipe insulation, relocation and replacement.	**Compressed air** Leak repair, optimisation, redesign and replacement.	**Industry processes** Steam trap inspections, facility programmes and BMS.

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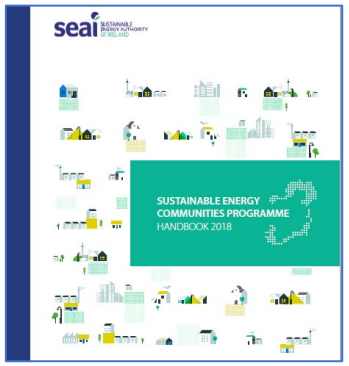
SEC Resources & Training

SEC Website

| Step 1 - Learn

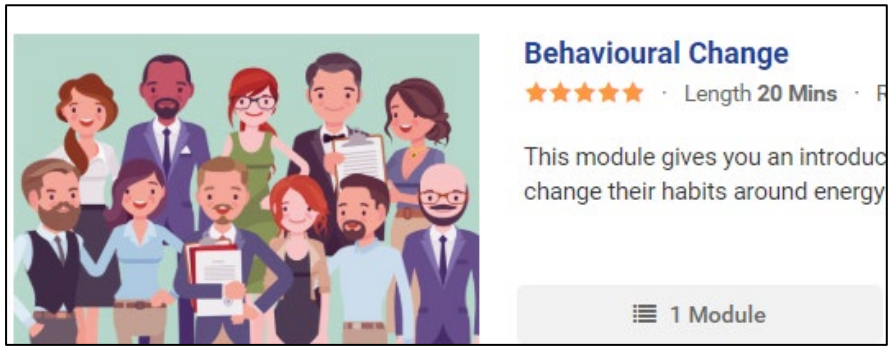
| Step 2 - Plan

| Step 3 - Do

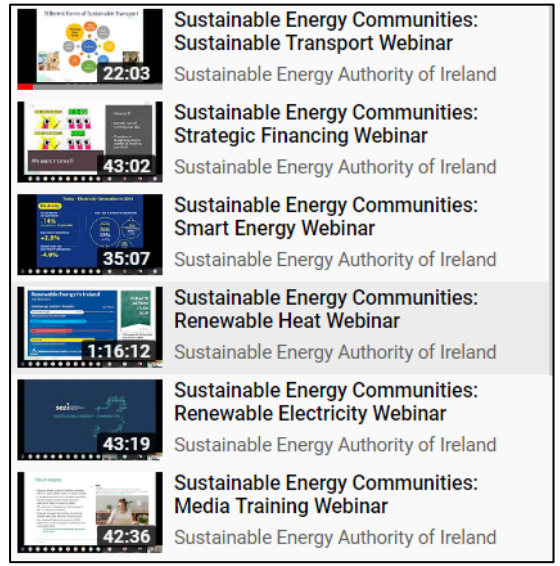


SEC Handbook

SEAI Energy Academy



SEC Webinars



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Q & A

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