



SME Power

**SMEs powering a low
carbon future**

Peer Review (PR) Session

By

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- **Introduction to Clár ICH clg**
- **Policy review**
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- **Engagement Tools**
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- **Key Stakeholders**
- **Best Practice ?**
- **Conclusion – Q&A**



Introduction to Clár I.C.H.

- ▶ An approved Voluntary Housing Association established in 2000

Company Objectives

- ▶ To provide quality Social Housing for people most in need
- ▶ To assist older people and people with disabilities to remain in their homes longer
- ▶ To create sustainable employment opportunities
- ▶ To raise awareness of energy efficiency
- ▶ To address fuel poverty nationally
- ▶ To demonstrate Energy Conservation and Renewable Energy Technologies to SME'S and the wider public
- ▶ To promote the principles of Environmental Practices





Services Delivered

- Management and maintenance of The Lawn Social Housing Scheme
- Manage activities of Clár I.R.D. incl. Growing Locally, Community Employment Scheme
- Construction and Management of Mayfield Lake Development
- Rural Regeneration Programme – manage 4 Rural Houses
- Care & Repair Programme
- Food Cloud
- Partner in European Projects
- Management of Deep Retrofit Energy Upgrade Programmes





CLAR I.R.D. Estd 1993





Policy Review

National Social Enterprise Policy for Ireland 2019-2022

Social Enterprises are businesses whose core objective is to achieve a social, societal or environmental impact. Any surpluses they generate are re-invested into achieving a social impact.

Climate Action Plan 2020

By 2030:

- 70% of all electricity generated to be from renewable sources
- 950,000 electric vehicles on the road
- 500,000 existing homes to be upgraded to B2
- Homeowners to generate their own electricity and sell back to the grid under scheme for micro-generation
- 600,000 heat pumps installed (400,000 in existing buildings)



Role of Clár ICH in Energy Retrofitting

Contracted by SEAI to address fuel poverty and assist SME's to become more energy efficient.

One - stop -shop from application for funding to energy installation

A wrap around service / robust project planning

Encourage SME's to become 'Energy Champions' and a catalyst for change

Energy Savings Roadmap

Create sustainable communities / community empowerment

Area Based Approach

A relationship of trust / transfer of knowledge

Technical & Financial Leadership

- Identify suitable Projects
- Assist CBO's to create Application for BEC funding
- Bank Roll Projects

Guarantee Excellence Through People

- Manage Projects
- Network of Approved Subcontractors for Energy Efficient Measures

Project Animation

Project Management

Clár I.C.H.

Project Replication

Project Delivery

Deliver Sustainable Growth & Energy Targets

- Energy Efficiency models replicated in new Facilities, Communities Nationwide

Strive on Creativity and Innovation

- Partnership
- Company Philosophy
- Match Funds
- Complex Projects
- Test Pilot Projects



Measures Supported

- Building Fabric Upgrades
- Technology and System upgrades
- Integration of Control Systems
- Integration of renewable energy sources
- Energy Audits
- Design Costs
- Single building Demonstration projects
- Facilitate third party finance

Engagement Tools



- Word of Mouth, Social Media, Newsletters
- Work force engagement - Energy Advice Clinics to employees
- No cost / low cost action
- Timing is everything
- Key Staff members
- Energy Champions and PR
- Identify opportunities

Case Study 1: Harmac Medical Products

Privately over 1000 employees We met Harmac initially in 2017 with a view to assisting with improving their overall energy efficiency.

The complexity of the existing building and the company's highly specialised manufacturing process made the planning, coordination, and timing of works crucial in the success of the project.

Specific sections of the building can only be shut down twice a year for a limited number of days. We had to ensure the energy efficiency elements of the project fitted into this particular timeframe.

Harmac have been involved in ongoing energy efficiency projects in conjunction with Clar ICH part funded by SEAI in 2019 2019 and 2020

Value of Contract: €420,000

SEAI Grant funding: €134,939.00



The projects include:

- Upgrading office heating system from electric storage heating to Air to air heating system
- Cavity Wall insulation / Roof insulation
- Insulation to Existing Ducting
- windows and doors installation single glazes aluminium upgraded to double glazed Upvc
- Lighting upgrades. Existing fluorescent lights replaced with LED
- Existing Air Compressor replaced with more efficient variable speed drive air compressor
- New Building management system module to monitor existing electrical meters. Monitoring system with ability to be accessed remotely and develop customised reports for existing equipment.
- Replace existing Air handling unit with New high efficiency Air handling unit
- Installation of a waste heat recovery system from main compressor





Case Study 2 - Polecat



Polecat are sustainable energy community.

RClar ICH worked with polecat from inception to feasibility, to gaining planning permission from Roscommon Co Co, to installation of the Pv and monitoring.

Since the install we have guided polecat to the next phase of the project which will involve the installation of 1 mw pv Array.

Polecat Springs Group Water Scheme (GWS), working with Clár ICH, Eco Smart and Veolia, has become the first Group Water Scheme to use renewable energy to directly power its water treatment plant.

Located near Elphin, County Roscommon, the site will be able to reduce energy costs by 70%, and cut carbon emissions, following the launch of a new solar panel project. The photovoltaic (PV) system will directly help the environment by reducing CO2 emissions and enable the local community to benefit from water treatment cost savings.

Case Study 2 - Polecat



Polecat Springs GWS supplies water to rural properties covering 80 square kilometres stretching from Elphin Town northwards to Carrick on Shannon and from Ballinameen eastwards to the River Shannon and is operated as a community co-operative. Installation of the new solar panels means electricity, which was previously drawn from the National Grid, will now be used to power the various stages of the water treatment process.

Operated under a contract by Veolia, the project has been backed by a Sustainable Energy Authority of Ireland grant covering 50% of costs, and the resultant energy cost savings will enable the project to pay for itself within six years



Standards and Requirements



Prescribed standards – SEAI Contractor Code of Practice and Building Regulations

All contractors must be registered with SEAI

Energy savings must be in line with energy audit

Characteristics of Approach

Community Benefits

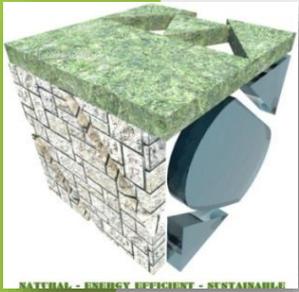
Multiple Elements

Mix of Sustainable Solutions

Innovation and Project ambition

Justified Energy Savings

An ability to deliver the project




Northern Periphery Programme
2007-2013

Innovatively investing in Europe's Northern Periphery for a sustainable and prosperous future



Ireland's European Structural and Investment Funds Programmes 2014-2020

Co-funded by the Irish Government and the European Union




pobal
government supporting communities



Irish Wheelchair Association™

AgeAction
For all older people

Thank You.




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