

Document Title

Introduction to Energy Management

Donegal County Council now has an energy management system (EnMS) in place to effectively manage energy used by the Council. This leaflet gives an overview of what is involved for all staff.

What is energy management?

Energy management is a systematic approach to manage energy and continuously improve energy performance. It concentrates on reducing usage in the first place through improving behaviour and implementing simple controls followed by projects to reduce usage. This can be complimented by the use of renewable energy but priority is given to conservation. The purpose is also to minimise energy use but without negatively effecting service levels for citizens or staff.

Steps that are key in having a system that works:

- **Commitment** – the organisation commits at senior management level to this approach across the whole organisation and appoints a team to drive the improvement.
- **SEUs** – a review is done to assess where energy is used, what the significant energy uses (SEUs) are, what the spend is etc. On the basis of this review, priority is given to the SEUs as having the most potential for improvement.
- **EnPIs** – energy performance indicators (EnPIs) are used to check progress.
- **Operational Controls** – are perhaps the most important element of an energy management system. These are regular operational or maintenance checks to ensure no more energy than necessary is being used.
- **Opportunities for Improvement** These may be technical, behavioural or related to how things are organised. The Council maintains a register of opportunities for energy performance improvement and from these selects the most feasible for implementation.
- **Review** – on a regular basis, reviews are carried out to check that performance is improving. See below a current example of a recent SEU performance review carried out.

PSC's & County House (Electricity)

Year	kWh Consumption	% Reduction
2015	1,044,302	Base Year
2016	1,013,309	-2.97%
2017	911,407	-12.73%
2018	847,701	-18.83%
2019	794,848	-23.89%
2020	770,985	-26.17%
2021	837,227	-22.01%
2022	542,085	-67.61%



2020/21/22 Energy Reduction Projects

- * County House – LED Lighting Upgrades
- * County House – Solar PV Phase 2
- * Milford PSC – Heating Upgrades
- * Milford PSC – Solar PV & Cavity Insulation
- * Machinery Yard – EV Charge Points
- * Energy Awareness Campaigns
- * Letterkenny PSC – Heating Upgrades
- * Letterkenny PSC – Solar PV & Cavity Insulation
- * Regional Cultural Centre – LED Lighting Upgrades
- * An Grianán Theatre – Solar PV & Battery Storage
- * An Grianán Theatre – Cavity & Ceiling Insulation
- * Regional Cultural Centre – Solar PV & Battery Storage
- * County Museum – Solar PV & Cavity & Ceiling Insulation
- * Letterkenny PSC – Thermal glazing upgrade

- **Targets** – are at an overall organisational level and are then supported by local actions from each SEU owner and the Energy Management Team (EMT) and managed in the Register of Opportunities which has a section for selected actions. Below are past and present targets established across the main SEUs.

Accumulative Targets on a Yearly Basis

2015 – Base Year

SEU	2016	2017	2018	2019	2020	2021	2022
Libraries & Cultural Services Buildings Electricity	5%	5%	4%	4%	4%	4%	2%
PSC & County House Electricity	5%	10%	4%	4%	4%	4%	2%
PSC & County House Thermal	5%	10%	4%	2%	2%	2%	2%
Fire Stations Electricity	5%	5%	4%	4%	4%	4%	2%
Public Lighting Electricity	5%	5%	4%	10%	10%	10%	2%
Machinery Yard Transport Fuel	3%	3%	4%	4%	4%	1%	0.5%

Factors considered in establishing targets are;

- Action Plan for Energy Saving Projects
- National Targets including 2030 Targets
- Climate Action Plan 2019
- Resources
- Energy Management Team Agreement

The Council has carried out all the above steps and continues to promote energy management.

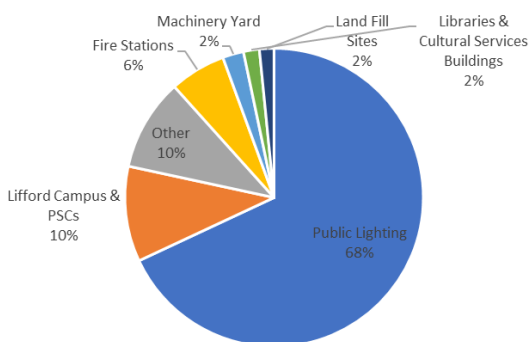
Why do we have a system?

- The Council has obligations under law to take steps to improve energy efficiency and having a system has been chosen by the SMT as the most effective structure to do this as better practices are built into the way the organisation is managed.
- The Council is also intent on demonstrating good practice in the public sector
- There is a national target to make a 33% reduction in public sector energy use by 2020
- Energy is a significant cost at about €4m per year and conservation helps relieve financial pressure

What does it mean for you?

Significant improvement can be achieved by improving general culture and behaviour akin to how safety culture has improved in recent decades. We are asking Council staff (and people working on their behalf) to:

- Contribute to improved energy housekeeping and behaviour – you know your own area – how can it be improved – what can be switched off, turned down and so on.
- Make suggestions and proposals for improvements in energy consumption.
- Co-operate with and contribute to energy awareness campaigns.



Breakdown of Electricity Use

Who is on the energy team?

The Council has a core energy management team to support continual improvement of the EnMS and a broader energy team covering all areas of energy use from the respective directorates.

*Patsy Lafferty	Director of Services Housing & Corporate Services
*Richard Gibson	Head of Finance
*Aidan Mc Grenra	Facilities Manager
*John Gallagher	A/SE Housing Capital & Facilities
Cahal Moss	SEE Roads & Transportation
Edward Gallagher	Fire Service
James Kelly	A/SEE Community Development
Judith McCarthy	County Museum Curator
Anne Marie Conlon	Communications Officer
Tanya Kee	Managment Accountant, Finance
Ross Hannigan	SEE Street Lighting
Barry Travers	Procurement Officer
Emmett McCabe	Facilities Management
Julie McMahan	Executive Environmental Officer
Con McLaughlin	SE Water & Environment Services

*Energy Management Team

Who do you contact if you have a good idea? Please contact the energy team member in your area or energy@donegalcoco.ie

What is ISO 50001?

The energy management system in Donegal County Council has been implemented and certified according to an international standard (ISO 50001) and is checked on a regular basis by a certified third party body to determine the energy performance improvement.

Revision History

Date	Rev	Reason for Revision
14/02/2017	0	Initial Version
01/2/2018	A	Updating members of Energy Team
09/11/2018	B	Updating Primary Energy data
15/07/2019	C	Updating members of Energy Team
22/08/2019	D	Inclusion of Review and Targets data.
01/12/2020	E	Updated Review, Targets, Energy Team
01/09/2022	F	Updated Review, Targets & Energy Team
05/09/2022	G	Updated Review, Targets & Energy Team