CA EED Irish study visit Day 1 - 1st December 2020

Rialtas na hÉireann Government of Ireland



	December 2020 – Policy context and ; central government and governmer	d governance structures; financing planning; SEAI energy	
10:00	Matt Colins Assistant Secretary General	Welcome	
GMT times	Department of Environment, Climate and Communications Kevin Brady Principal Officer Department of Environment, Climate and Communications	The Irish policy context – public sector targets in the climate action plan,	5, 6 Also 3, 4 for PS
	Ken Cleary Assistant Principal Officer Department of Public Expenditure & Reform	National financing plan for public sector 2030 targets	18, 19, 20
	Eavan Crehan Senior Corporate Finance Officer New Era, National Treasury Management Agency	Business case for the national public lighting retrofit programme,	19, 20
10:45		Q&A	
10:55		Comfort Break	
11:00	Alan Ryan, David Power, Programme Executive, SEAI Cathal Brady, Ultan Technologies	Energy management in the Irish public sector Q&A	5, 6, 8, 16
_2	Liam P. O'Cleirigh, Byrne O'Cleirigh (consultants to SEAI	Current public sector Monitoring and Reporting System New system to track energy efficiency and carbon targets to 2030 Q&A	
12:00	_	Lunch	

	st December 2020 – Policy context and s; central government and governmer	d governance structures; financing planning; SEAI energy nt department experience	
12:00		Lunch	
13:00	Orla Coyle, Fergus Sharkey, SEAI	Building a project pipeline to 2030 - project mobilization & retrofit to date	5, 6, 8, 18 Relevant to EPBD
13:30		Q&A and discussion	
14.00		Comfort Break	
14:05	Conor Clarke, Head of Energy Conservation Unit, Office of Public Works	Office of Public Works Optimising Power at Work Programme Conor Clarke OPW, central government building stock	5, 8 Relevant to EPBD
14:45	Eilis O'Connell, Head of HR and Corporate Affairs, Department of Agriculture, Food and Marine	Perspectives from a government department	5
15:00		Discussion – what central government approaches are successful in MS – if possible try and do similar process as other 30min sessions	
15:30		Day 1 - Close	



Questions or comments

E

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Meeting chat

15:31 Meeting started

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Stop presenting

Training

- Post on 'chat' anytime Raise 'hand' during Q&A Open Slido.com



Rialtas na hÉireann Government of Ireland





Where are you joining us from today?

(i) Start presenting to display the poll results on this slide.



What EED article are you most interested in hearing about today ?

(i) Start presenting to display the poll results on this slide.

Questions Comments Feedback

- Post on 'chat' anytime

- Raise 'hand' during Q&A





CA EED Irish study visit 1st December 2020

Alan Ryan, Programme Manager David Power, Programme Executive Mairead Doherty, Programme Executive Liam Ó Cléirigh, Byrne Ó Cléirigh Cathal Brady, Ultan Technologies







Policy context

Programme budget and resources

Cross sectoral supports, project pipeline

Measuring success – Public Sector M&R system

Future plans

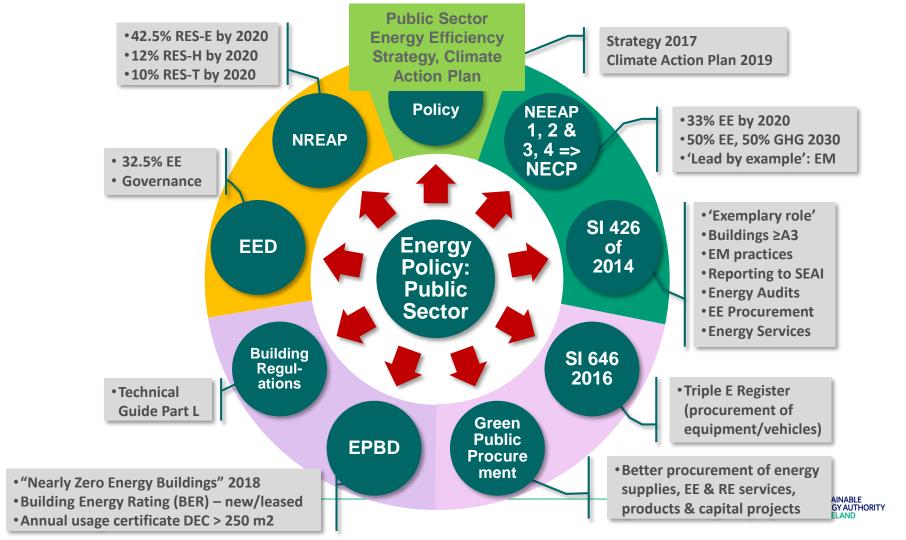




Sustainable Energy Authority of Ireland Ireland's energy will be sustainable, secure, affordable and clean







Public sector programme budget and resources



<mark>Kialtas na hÉireann</mark> Government of Ireland



Programmes Strategic Objectives

- Embed Energy Management & Leadership in all public bodies
- Assist public bodies / sectors establish project pipelines to achieve 2020 & 2030 targets
- Continuous Energy Performance improvement.
 Track Performance & define reality



High level organisation

- Budgets
 - €1.45m current spend
 - Approx 350k annually on M&R (200k capital)
- Resources
 - Two SEAI
 - David Power Energy management supports
 - Mairead Doherty Energy Performance (including M&R)
 - Tendered advisor framework
 - 5 lots Energy Management, technologies, project management, EPC/financing, coordination



Cross sectoral supports



SEAI Supports



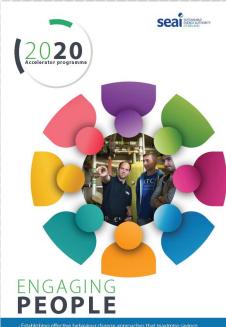
CALL SUSTAINABLE ENERGY AUTHORITY ENERGY AUTHORITY	Search Q
I All Sectors / Public Sector Wide / Other	
Chergy Topic / B. Lighting	
⊋ Surface Car Park Lighting Admin →	
O Surface Car Park Lighting	By: Martin Mc Gonagle 1 month ago 17 Nov 2016
Struggling to find a Car Park to view / visit that is fitted with LED lighting designed to 10 lux or can be dimmed to 10 lux. Good uniformity also a key consideration.	
Admin +	🗉 Thank Martin for useful comment 🛛 🏫 Reply
Ø Surface Car Park Lighting	By: Stephen Granleese 1 month ago 21 Nov 2016
Hi Martin, Apple Computers in Cork has a large LED lit car park. Pat Lawlor (066 2341625) supplied the fittings for the car park at the time, he no longer works for that lighting company bu speak to in Apple. Stephen	
Apple Computers in Cork has a large LED lit car park. Pat Lawlor (086 2341625) supplied the fittings for the car park at the time, he no longer works for that lighting company bu speak to in Apple. Stephen	ut may be able to guide you to the right person to
Apple Computers in Cork has a large LED lit car park. Pat Lawlor (086 2341625) supplied the fittings for the car park at the time, he no longer works for that lighting company bu speak to in Apple. Stephen	
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Energy Link Knowledge Portal for 3000+ Public Sector Members





Examples of Supports



- Establishing environmental leadership in the workplace - Promoting environmental leadership in the workplace - Sharing best practice throughout the Public Sector



Training Overview

The Public Sector is committed to a target of improving its energy efficiency by 33% and to be seen to lead by example -showing all sectors what is possible through strong, committed action.

SEAI is supporting the Public Sector in meeting this target and has developed a number of training programmes in consultation with Public Sector organisations. Energy MAP, (Energy Management Action Programme) is one of the most popular and successful programmes available.

Target Audience

2018 PROGRAMM

This is a structured energy management training programme ideally suited to organisations with an energy spend of over €100,000. It is appropriate to those who are new to energy management and those who are returning to energy management where it has lapsed within your organisation.

Benefits of Involvement

Cost Savings: Past experiences of implementing Energy MAP have resulted in minimum savings of 5% of energy bills, with some organisations achieving up to 10-15% savings.

Exemplar Role: Exemplar energy management is a requirement of SI.426 of 2014 for all public bodies. Implementing Energy MAP is a clear demonstration of exemplar energy management.

Legal Compliance: Finally It puts in place a system for sustained savings and complying with legal and other requirements. A structured energy management programme will be the engine to drive your organisation to substantially improved energy performance towards its 33% energy efficiency target by 2020.

Seal SUSTAINABLE ENERGY AUTHORITY OF IRELAND

Optimising ISO 50001 – Operational Control

Operational control is a key aspect of any good energy management system. Without it, incremental improvements will undo themselves over time. If you're operating an ISO 50001 certified EnMS and you'd like to know more, register now for this online event. AUDIENCE Facility/energy/fleet managers, anyone involved in operating a significant energy user in an organisation certified to ISO

Tuesday, 24 November, 2020

10:00am - 11:30am

DATE

TIME

Online



To support those organisations already certified to ISO 50001, or actively preparing for ISO 50001 certification, SEAI delivers this ongoing series of events focused on optimising specific aspects of energy management. The purpose of these events is to provide insights and knowledge to support the optimisation and improvement of your existing energy management system (EMS).

This training will focus on Operational Control

- An overview will be given into operational control of Significant Energy Users (SEU's) in the context of an ISO50001 certified EnMS
- A deep dive into operational control of Leisure Centres and Transport will be given by industry experts to provide an understanding of the day to day operational and maintenance tasks to be undertaken in order to maintain existing performance.

Rialtas na hÉireann Government of Irela FOR FURTHER INFORMATION email <u>publicsector@seai.ie</u> or visit <u>www.seai.ie</u>



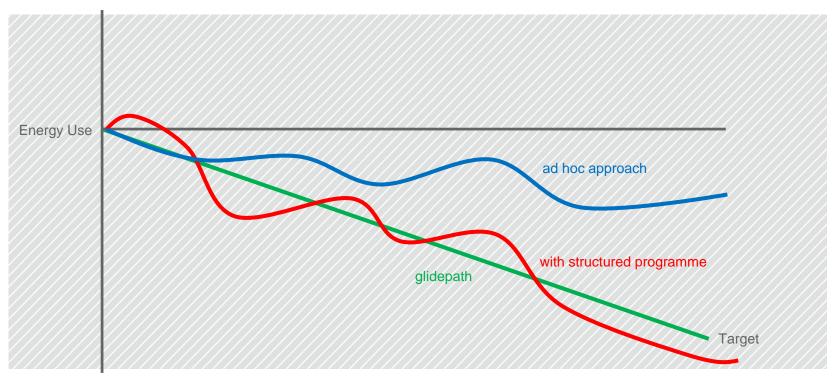


Public Sector Conference

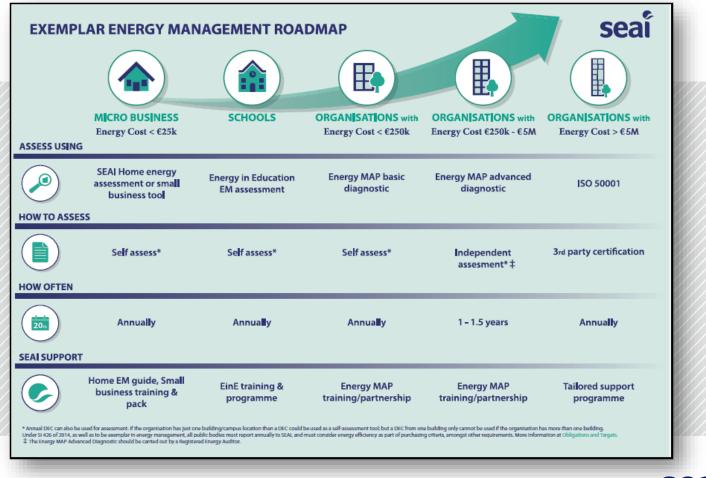
- 4th conference February 2020
- 800+ attended
- Plenary with Mary Robinson, Sectoral leadership sessions, Project action sessions
- Next year's conference will focus on 2030 Carbon target



Structured Energy Management





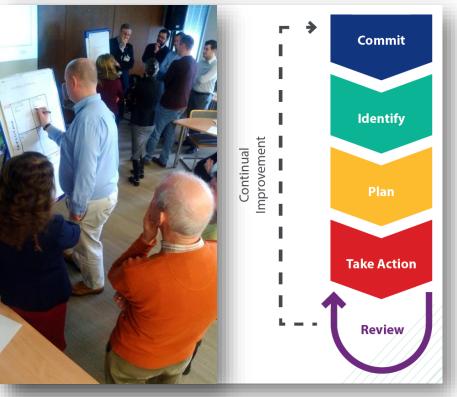




Energy Management Action Programme (Energy MAP)

Energy MAP family

- Public Bodies 3 x 1 day
- Schools 2 x 0.5 c
- Businesses
- 2 x 0.5 day 1 x 1 day
- 5-10% energy savings







Energy in the **Public Sector**

ISO 50001 is critical to achieve 2030 targets for large energy users **30 public bodies are certified**



Public Bodies certified to ISO 50001

- An Garda Siochana
 An Post
 Bord na Mona
 Central Bank of Ireland
 Clare County Council
- Cork County Council
- Cork Institute of Technology
- daa
- Defence Forces
- Donegal County Council
- Dublin Bus
- Dublin City Cour
- Dublin City Univers
- Dublin Institute of re
 Dublin Port

- Galway County Counce
 Gas Networks Ireland
 Irish Rail
 Kounce
- Kerry County Council
 Limerick City & County Council
- Louth County Council
- National University of Ireland, Galway
- Port of Cork
 - SEAL
 - Transport Infrastructure Ireland
- University College Cork
- University College Dublin

Dun Laoghaire-Rathdown County Council

- Public Bodies actively pursuing ISO 50001 certification througi SEAI's Accelerator Programme - Bus Éireann
- Coilte
- ork City Council lept. of Agriculture, Food an
- Marine Dept. of Communications. Climate
- Action and Environment Dept. of Employment Affairs and
- Dept. of Employment Affa Social Protection
- ngal County Council
- Irish Water
- Kilkenny County Council National Treasury Management

ialtas na hÉireann overnment of Ireland

- lational Treasury Manage Igency
- Agency
 Office of Public Works
- Waterford Institute of Technology

ISO 50001 Accelerator Prog.

- 4th edition complete
- LAs, Transport, Utilities, Gov. Dept.s
- 5th edition planned for 2021





Developing a project pipeline in the public sector

A GUIDE TO HOW SEAI CAN

RT YOU IN TRANSFORMING

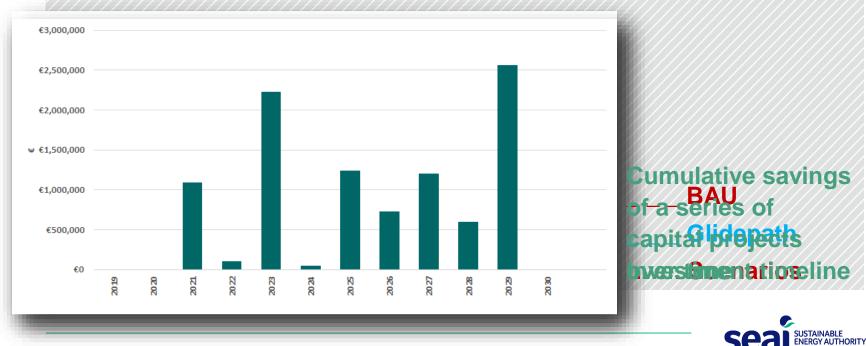
Public Sector Energy Programme Support Manual

- PB and Sectoral approach
 - Energy Assessments (basic audits)
 - Gap to target tool
 - Prime the pump –
 - Inform of SEAI project grants and supports
- Other schemes
 - Climate Action Fund
 - Department capital funds

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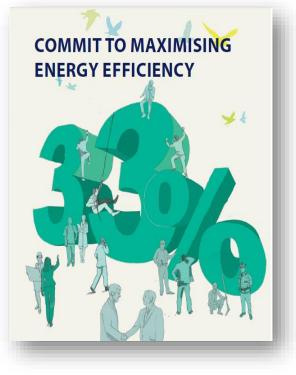
Gap to Target tool

- Identify your 'gap to target'
- Identify the projects to close this gap



Getting strategic – **Partnership** (130 PBs)

- Tailored Energy Management support
 - Energy MAP tailored to the organisation
 - Access to ISO50001 accelerator
 - Bespoke training
 - Energy Efficient Design mentoring
 - Long term energy strategies
- Building a project pipeline
 - Opportunity assessments
 - Gap to Target analysis
 - Annual review of projects done and planned
 - Advice regarding SEAI capital supports
- Energy Performance improvement
 - Monitoring and Reporting mentoring
 - Embed energy performance systems





Sectors EM and Leadership Project pipelines Performance



Sectoral groupings

- Local Authorities
- Healthcare
- Central government
- Education Universities, Colleges, Training Boards
- Small, medium & very large users
- Schools Energy in Education

Each sector focuses on....

- Mobilise sector leadership
 - Energy management appropriate to the sector
 - Mobilise public body / sector project pipelines
 - Improve public body / sector performance



Sectoral supports – SEAI advisors

Energy **Bureau** HARBOURS & MARINE

Seal SUSTAINABLE ENERGY AUTHORITY

Targeted supports for Public Bodies ith common challenge

SEAI has developed a tailored support package for the Harbours and Marine sector

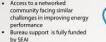
This Energy Bureau will provide access to technical expertise and supports – to identify issues and challenges in the sector and develop common solutions across several organisations.

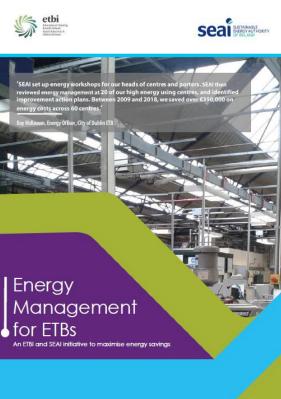
pipeline.

Benefits of the Energy Bureau

 Access to independent best practice technical advice Support on building a project business case

 Advice on grant funding Access to a networked community facing similar

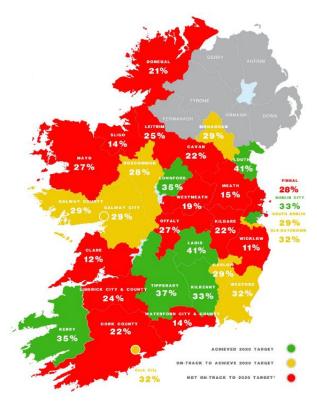








Local Authority sector



- Lot of individual LA successes EPC, 50001, public lighting, EV, community engagement, social housing etc
- Annual best practice network programme with Association of Energy Agencies
- Public lighting project support
- Climate action training
- Energy management bureau will commence in 2021 in North West
- LA key role in national retrofit and environmental objectives
- Engaging with 31 LA chief executives City and County Management Association
- Collectively exploring how to moblise the sector for large scale proejcts



Health sector – hospitals, healthcare, charities



SEAI SUPPORT SERVICES TO HEALTHCARE: NON-ACUTE SECTION 38 & SECTION 39 ORGANISATIONS

General Support

New Energy Bureau Support

The following support services are currently available to all public sector bodies and most organisations are already familiar with and availing of these services:

SEAI WEBSITE: For general information

ENERGY LINK: For notifications & discussion on energy related topics, registration for all SEAI events, communities of practice for sector specific discussion/events/supports (e.g. Health Sector CoP at https://energylink.seai. ie/community/view/19) and working groups on specialised topics.

GUIDANCE DOCUMENTS: Including best practice guides, practical tools, videos (e.g M&R tutorials at <u>https://www.seai.ie/energy-inbusiness/monitoring-and-reporting/supports/</u>)

EVENTS: Providing networking, briefing, training & workshop events on a variety of topics

MONITORING & REPORTING (M&R) SYSTEM – Providing a portal for all public bodies to report on their energy consumption



SEAI are now offering additional supports to those public bodies in this sector who are engaged and motivated. SEAI are aware that for many organisations in this sector, resources, and in particular - technical resources are a key challenge. SEAI have established a mini bureau of technical experts who are on-hand to assist this sector in the short term to gather data, identify energy saving opportunities & get ready for project implementation.

This service is being provided to assess the needs of the sector, provide immediate supports to get energy saving actions and projects moving, and inform the development of a more comprehensive Bureau service.

In the medium term, SEAI is in strategic discussions with the HSE regarding establishment of an Energy Bureau to assist this sector long term by providing technical expertise and project management support. As part of this possible model, SEAI are exploring mechanisms to provide capital supports specific to the sector for pilot projects.

The final proposal will be informed also by the learnings from the HSE Energy Bureau Model which is currently operating in the Dublin North East and Dublin Mid Leinster regions and which will be rolled out to the other HSE regions over the next year. This model involves local energy teams being established in HSE facilities, supported by the Energy Bureau with a focus on user pattern change programmes, the development of registers of opportunities and follow on targeted energy project proposals.

- SEAI advisors & Pathfinder support
 - Energy bureau part funding energy management resources
 - Capital project support for demonstration pilots
- Significant projects undertaken behavioural and capital
- 2030 decarbonisation strategy
- Led by national director of estates (Energy Performance Officer)



Schools and Energy Efficiency

The Part of the Party of the Pa

- Approx 3700 Schools
- From 20 1200+ pupils
- 11% of PS energy use
- 795 schools trained in energy management and received energy assessments
- €1m saved



Questions Comments Feedback

- Post on 'chat' anytime

- Raise 'hand' during Q&A







What are your questions, comments, feedback ?

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Public sector Monitoring & Reporting System to 2020



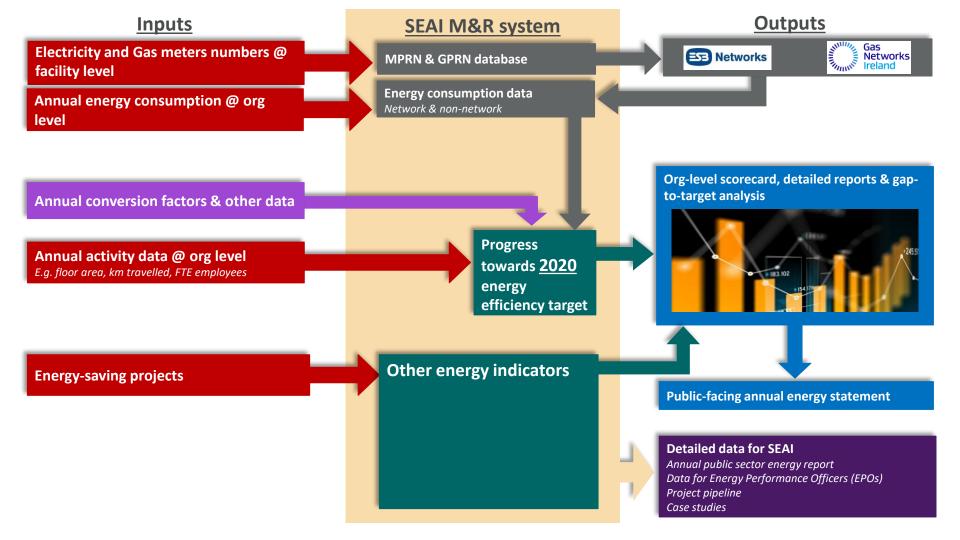
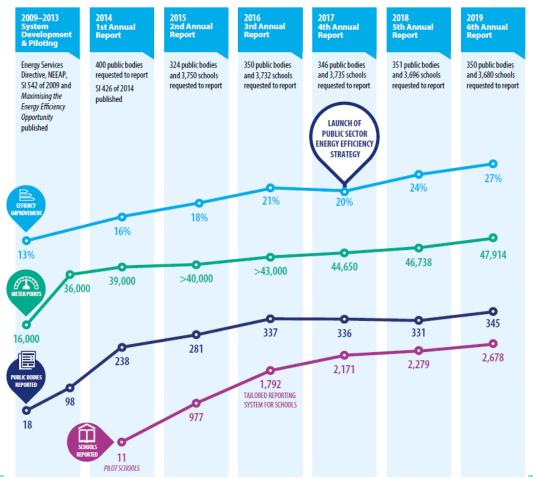


FIG. 1: PROGRESS BY PUBLIC BODIES AND SCHOOLS



- Excel based system 2009-2012
- Online system
 2013 *
- 6th annual report issued in 2019 *



* https://www.seai.ie/business-and-public-sector/public-sector/monitoring-and-reporting/

Lots of help and support

- Helpdesk
- Partnership support
- Annual training
- Advanced user training
- Sectoral training ie schools



Monitoring & Reporting system to 2020

ENERGY EFFICIENCY IMPROVEMENT



PUBLIC BODY REPORTING RATE







Key Findings for 2018

SCHOOL REPORTING RATE

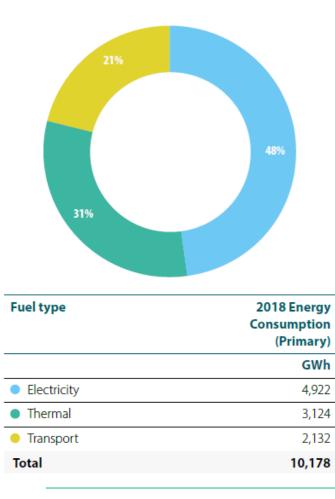


COMBINED ENERGY CONSUMPTION OF THE 345 PUBLIC BODIES AND 2,678 SCHOOLS THAT REPORTED

WHICH AMOUNTED TO A TOTAL ENERGY SPEND OF

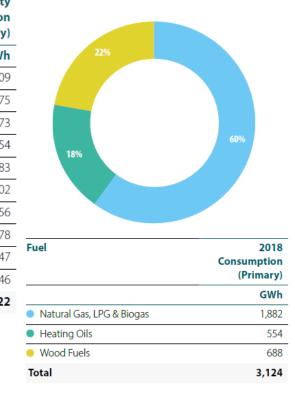
> SUSTAINABLE ENERGY AUTHORITY

€**668m**

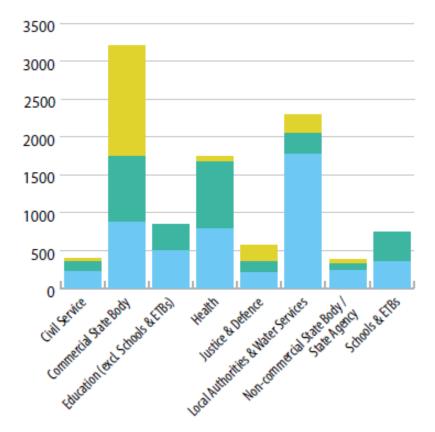


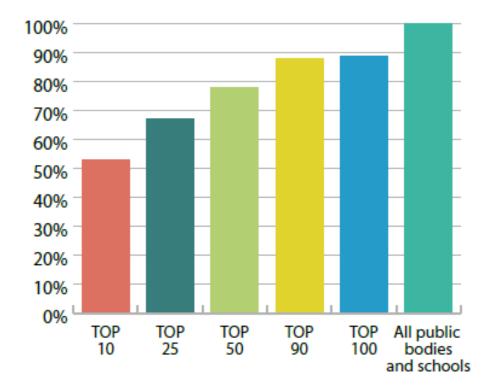
Breakdown by Use	2018 Electricity Consumption (Primary)
	GWh
Office Buildings	609
Education Buildings	775
Healthcare Buildings	773
Other Buildings	454
 Water Services 	883
Public Lighting	402
Waste & Other Processing	356
Transport	178
• Other	147
Unknown	346
Total	4,922
X % consum in buildir	•

FIG. 6A: THERMAL ENERGY BREAKDOWN











Making Progress

The data submitted demonstrates savings achieved through the implementation of thousands of efficiency measures. During 2017 and 2018, 95 projects were supported by the DCCAE Mobilisation Fund through SEAI in partnership with the OPW, the HSE and the Department of Education and Skills. Over half of the measures reported addressed **lighting, heating, building fabric and structured energy management improvements.** Projects in schools accounted for a further 26%. The projects illustrated on these pages are a selection of the **4,036 projects** that were reported to SEAI in 2018. While the overall level of project reporting is improving, many of the efficiency measures are still relatively small scale.

During 2018 and 2019, DCCAE, SEAI and the OPW delivered a series of workshops to provide guidance, advice and support to help public bodies through their Departmental Energy Performance Officer network groups. This process is helping to drive progress, facilitate the sharing of best practice and assess the range and nature of project opportunities to develop a project pipeline. Feedback from those groups who have participated has been very positive.

Further details of the projects reported by public bodies can be found in SEAI's online database of public sector energy-saving projects. This is available at **www.seai.ie/publicsectorreport**

Note: Case study savings are total final consumption (except where indicated). All other figures in the report are primary energy consumption.

14,000 kWh

Louth County Council Animal Pound installed solar photovoltaic generators and a wind turbine in 2017, generating approximately 6,570 kWh of electricity at the site per year. To further improve efficiency, the Council installed a heat pump in 2018, with grant funding from SEAI's Community Grant Scheme. Through this combination of energy saving measures and on-site generation, dependence on imported energy has reduced by 30%, equivalent to almost 14,000 kWh per annum.

Louth County Council



80,000 kg of CO₂

Inland Fisheries Ireland invested €160,000 in a range of measures aimed at reducing their CO₂ emissions, with a target set for an overall reduction of 24%. To achieve this they rationalised and reduced their vehicle fleet, utilised telematics to implement a fleet managemen system to generate efficiencies renewed older vehicles with more efficient models and purchased eight electric vehicles. These measures meant the organisation used approximately 45,000 fewer litres of fuel in 2018 and avoided over 80,000 kg of CO₂ emissions.

Inland Fisheries Ireland



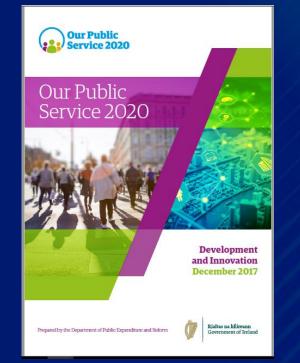
Government department performance

Departmental Group	2018 Energy Consumption (Primary)	Compliance		Overall Status (2018)	Energy Savings Since Baseline
	% public sector	No. complete reports	No. organisations		%
Agriculture, Food & the Marine	12%		11	٠	21%
Business, Enterprise & Innovation	<1%	14	15		46%
Children & Youth Affairs	<1%	5	5	•	21%
Communications, Climate Action & Environment	4%	16	16	•	32%
Culture, Heritage & the Gaeltacht	<1%	17	17	•	32%
Defence	3%	3	3	•	26%
				-	

Public Body	2018 Energy Consumption (Primary)	Overall Energy Status Savings (2018) Since Baseline
	GWh	%
Abbey Theatre	2.2	• 20.5%
Ability West	2.8	• 26.5%
Adoption Authority of Ireland	0.2	• 32.7%
AHEAD	<0.1	• 31.0%
An Bord Pleanála	1.0	• 46.4%
An Foras Teanga - Foras na Gaeilge	0.8	• 12.2%
An Foras Teanga – Ulster Scots Agency	<0.1	• 24.6%
An Garda Síochána	191.2	• 27.0%
An Post	145.8	8.1%
Arts Council	0.5	26.0%
Athlone Education Centre	0.1	• ₂ 32.8%



Public body performance



CASE STUDY:

Energy Performance Monitoring and Reporting -Department of Communications, Climate Action and Environment (DCCAE) and Sustainable Energy Authority of Ireland (SEAI)



Public Sector Energy Efficiency Strategy Department of Communications, Climate Action & Environment

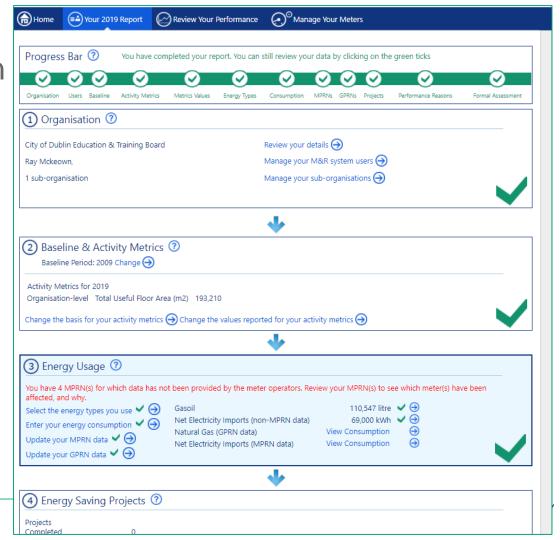


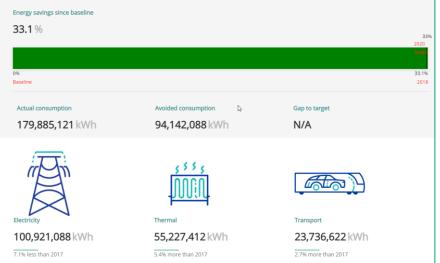
Since 2009 SEAI's Energy Performance Monitoring and Reporting System has tracked progress by the public sector towards its target to improve energy efficiency by 33% by 2020. With a 20% improvement at end 2016, €730m and 2.6m tonnes of carbon have been saved.

This data is now driving the implementation of the Public Sector Energy Efficiency Strategy which is being led by DCCAE. The Strategy is activating senior leadership on energy management and establishing a project pipeline to ensure costeffective, energy-efficient investment in public buildings and transport fleets. Meeting the target would see further savings of €750m and 2.8m tonnes of carbon. Recognition as an evidence based policy making tool



Data entry main screen





Dublin City Council

Data accessible to the public https://psmr.seai.ie/public

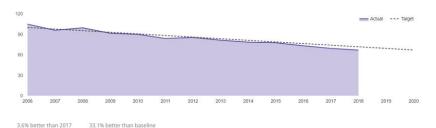
Energy-related CO2 emissions

35,614,029 kg CO2



Equivalent to the amount absorbed by 213,685 trees

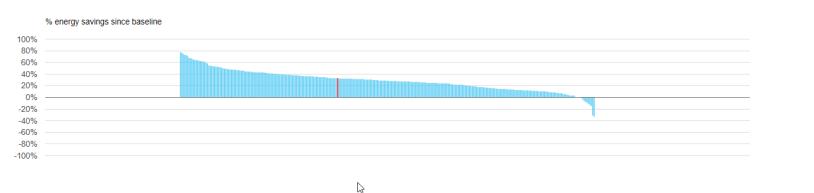
Energy performance to date



Ultan Technologies

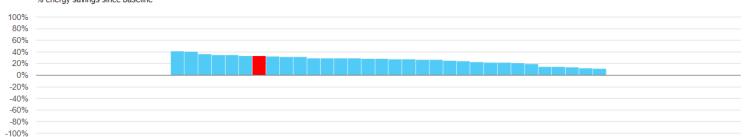


Your savings compared to all public bodies



Dublin City Council is the 112th best performer out of 293 public bodies. Please note that another 57 public bodies were removed from this comparison because they either submitted insufficient data to calculate a savings result or aspects of their data need to be improved or verified.

Your savings compared to others in Local Authority

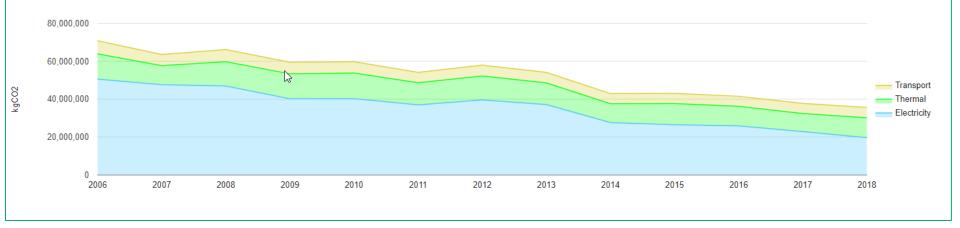


% energy savings since baseline

2018 CO₂ emissions 35,614,029 kgCO₂

CO₂ emissions since baseline

Any apparent drop in consumption between 2013 & 2014 is due, in large part, to the transfer of water services assets to Irish Water





Ultan Technologies

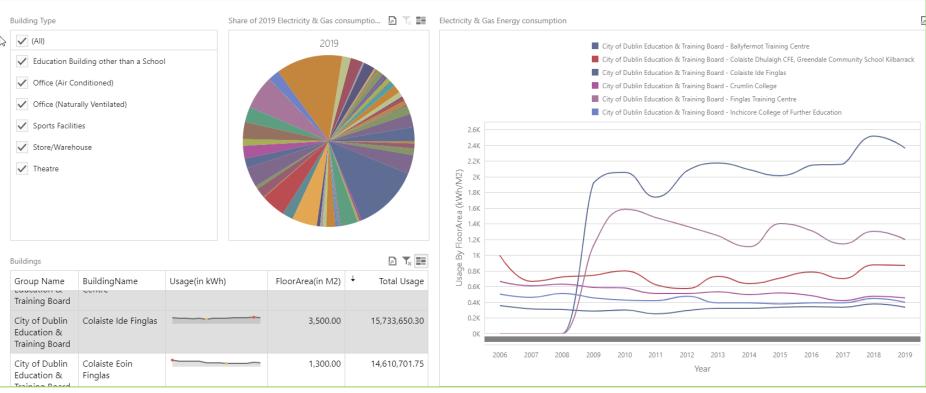
Building register produced for SRSP supported study

		UltanTechnologies			log ou	t		
		Home Building Register						
Dashboard	Manage Buildings					Add New 🕂 Delete 🛞 Link to Meter 🔿	Remove All Meters ⊖ 🛛	Download 🕑
Manage Buildings	CoVEC 1 Pamelo Square Training Box CoVEC 1 Pamelo Square Training Centre CovEC 1 Pamelo Square CovEC No 2 Pembroke Place Ballsbridg CovEC No 2 Pembroke Place Ballsdirdg	Info Name * Address Type * Building Type * Ownership Status * How is Floor Area Determined? * Heating Type * Retrofit Works since 2015 * Age Category * Is a DEC applicable? *	Select Add Av Building Cducation Building othe KAA KAA KAA KAA KAA KAA KAA KAA KAA KA	Description address 🕣 Other Building Type No. of Months till Renewal Floor Area in m² • Heritage/Protected Status • Year Retrofit Done • BER Rating • Date DEC Expires	No N/A		Save 🕢	Cancel 🛞
	- Colaiste Dhulaigh CFE Coolock	Meters						\odot
	— 🗖 🚡 Colaiste Dhulaigh Main	Number Location		County	Consumption Category	Percenta		
	— 🗖 🚡 Colaiste Dhulaigh Post Primary Cool	10003537347 Ballyfermot		Dublin 12	Education Building		100	٢
	— 🗖 📊 Colaiste Eanna Cabra	Ballyfermot	t Training Centre	Dublin 10	Education Building		100	٢
	- 🗆 🚡 Colaiste Eoin Finglas						Add 🕣 Delete	e selected 🕝
						Seal	SUSTAINABLE ENERGY AUTHORITY	Y

Ultan Technologies

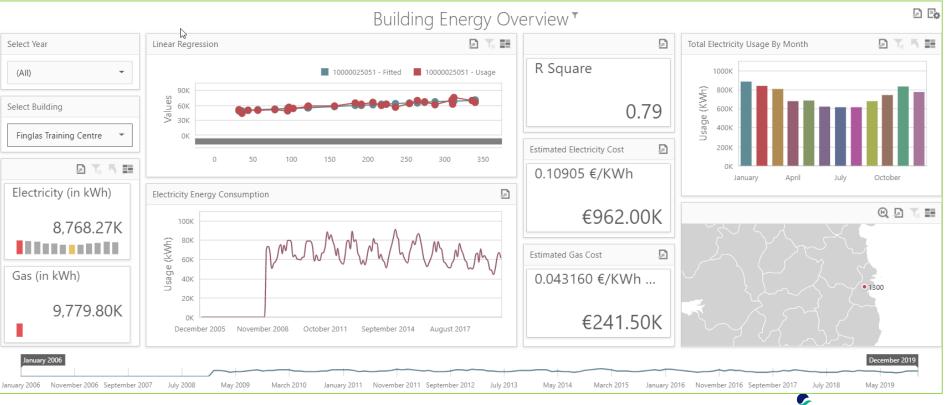
2021 - more graphical interfaces for energy management

Overview





An adult education training centre





Public sector Monitoring & Reporting System to 2030



Monitoring and Reporting system to 2030

M&R system 2030

- Tender software provider 2020
- Development 2021
- Phase 1 launch January 2022

Phase 2 – Q2 2022 onwards

- **Phase 1** organisational level tracking of targets 50% EE, 50% GHG, clean vehicle directive compliance (DTTAS), and enhanced graphics and analytics
- •
- **Phase 2 onwards** asset level performance, B rating tracking, green public procurement compliance, wider emissions reporting.....



Key Principles

- 1.Direct (Heat and Transport) emissions must be reduced by 50%
- 2.Indirect (Electricity) emissions must form part of the target to ensure electricity demand reduction is valued, electrification is done sensibly, and supply side decarbonisation is encouraged (i.e. "own action")

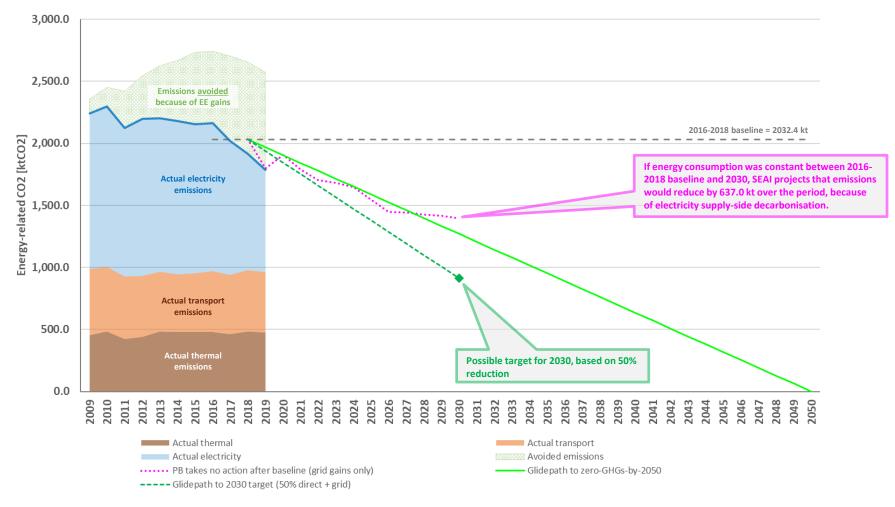


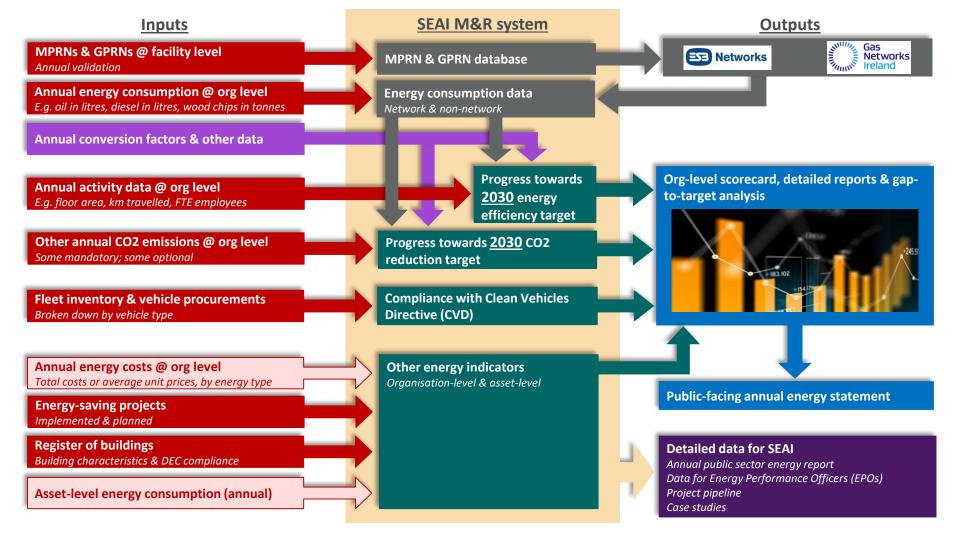
Possible target framework – scope of target & reportable emissions

Direct energy- related CO2 emissions M&R thermal consumption & M&R transport consumption	Indirect energy- related CO2 emissions M&R electricity consumption	Staff travel Flights, grey fleet & staff mileage not already included in M&R scope	Other scope 1 emissions Non-energy direct GHG emissions, fugitive GHG emissions	Other scope 3 emissions Energy & non- energy supply chain GHG emissions not included in M&R scope
Include	d in 50%-by-2030 target			
	<u>Must</u>			
			<u>Car</u>	<u>n</u> be reported via M& Yellow areas option



Public sector





Questions Comments Feedback

- Post on 'chat' anytime

- Raise 'hand' during Q&A







What are your questions, comments, feedback ?

Thanks

Alan Ryan, Programme Manager David Power, Programme Executive Mairead Doherty, Programme Executive Liam Ó Cléirigh, Byrne Ó Cléirigh Cathal Brady, Ultan Technologies



	December 2020 – Policy context and ; central government and governmer	l governance structures; financing planning; SEAI energy at department experience	
12:00	-	Lunch	
13:00	Orla Coyle, Fergus Sharkey, SEAI	Building a project pipeline to 2030 - project mobilization & retrofit to date	5, 6, 8, 18 Relevant to EPBD
13:30		Q&A and discussion	
14.00		Comfort Break	
14:05	Conor Clarke, Head of Energy Conservation Unit, Office of Public Works	Office of Public Works Optimising Power at Work Programme Conor Clarke OPW, central government building stock	5, 8 Relevant to EPBD
14:45	Eilis O'Connell, Head of HR and Corporate Affairs, Department of Agriculture, Food and Marine	Perspectives from a government department	5
15:00		Q&A and discussion	
15:30		Day 1 - Close	





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slido

What surprised you, what was interesting, what was new ?

slido

Are you doing similar or different approaches in your MS? What works well or doesn't work in your MS ?

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Questions Comments Feedback

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slido

What surprised you, what was interesting, what was new ?

slido

How does your MS address Article 5 and 6 ? Whats working and whats not ?



What's the one big learning today you are taking away with you for your MS ?

CA EED Irish study visit Day 2 – 2nd December 2020

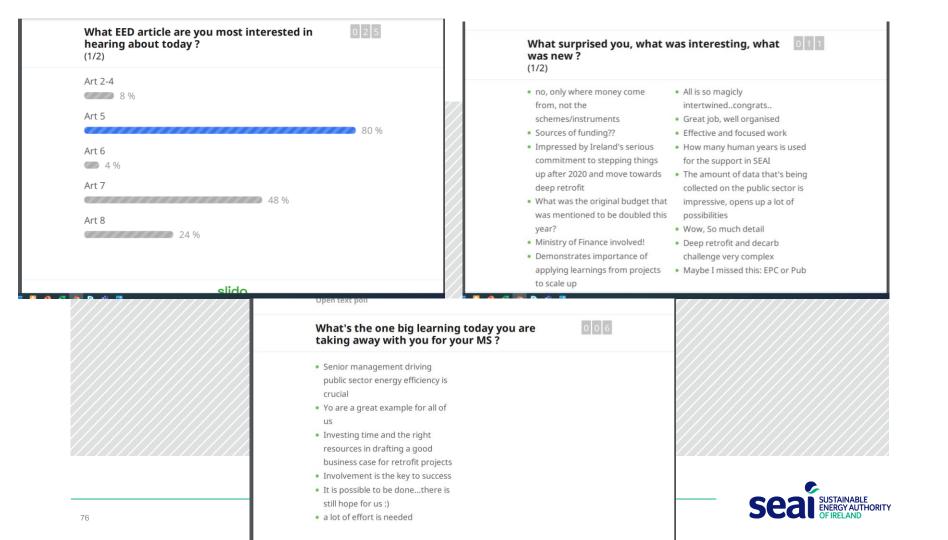
Rialtas na hÉireann Government of Ireland







	^d December 2020 – Public sect es, health, university and water	or bodies perspectives including schools & education, local	
09:00	Alan Ryan	Introduction and welcome to day 2 – summary of day 1	
09:10	John Dolan, Senior Engineer, Department of Education and Skills	Energy performing school buildings, from energy management, to piloting to planning a large scale retrofit programme	5, 6, 8 Relevant to EPBD
09:40		Q&A & discussion – approaches to schools in other MS	
09:55		Comfort Break	
10:00	Richy Kelly, Estates Manager, Dublin City University	A typical universities decarbonization journey	5,6, 7, 8, 18
10:20	Celine Reilly, Manager, Dublin City Council, Brian Ahern Road Management Office Joe Hayden, Senior Engineer, Codema	Local authority sector energy management, metering and monitoring and project pipelines	5,6, 7, 8, 18
10:50		Q&A – university or local authority success examples in other MS.	
11:05		Coffee Break	
11:20	Peter Smyth, Assistant National Director of Estates, Health Services Executive	Health Sector energy management, pilots and 2030 decarbonisation planning	5,6, 7, 8, 18
11:50	Charlie Coakley, Sustainability Policy Lead, Irish Water	Energy management and project pipeline in the water sector	5, 6, 7, 8 Relevant to EPBD
12:05		 Discussion – Good practices in the health and large state companies in other MS Next steps – how to keep the networking going 	
12:25	Fergus Sharkey, Head, SEAI	Closing remarks	
12:30		Close	



Questions Comments Feedback

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How do you address energy efficiency in schools in your MS ? Policy and implementation.

Questions Comments Feedback

- Post on 'chat' anytime

- Raise 'hand' during Q&A





How do you address energy efficiency in higher education and local authorities in your MS? Policy and implementation?

Questions Comments Feedback

- Post on 'chat' anytime

- Raise 'hand' during Q&A





How do you address energy efficiency in higher health and water sector in your MS? Policy and implementation?

Thank you for your participation and to our speakers





Please share your policies and practices relevant to schools, higher education, local authorities, health and water services

What's the one big learning from the study visit you are taking away with you for your MS ?

Day 2, 2 nd December 2020 – Bonus sessions on transport				
14:00	Alan Ryan, Public sector Programme manager, SEAI Conor Molloy, Authentic Solutions (energy advisor on behalf of SEAI)	Introduction		
14:05	Maurice Harnett, Principal Officer, Dept Transport, Tourism and Sport	Clean Vehicle Directive implementation in Ireland, ongoing consultation and plans to track compliance on the Monitoring and Reporting system	5	
14:20	Conor Molloy, Authentic Solutions (energy advisor on behalf of SEAI)	 An overview of energy management energy saving potential in the transport sector Vehicle types and less carbon intensive options Procurement examples Eco driving and behavioural change potential Monitoring and optimisation systems Staff integration and acceptance examples M&V Article 7 experiences Energy management and ISO50001 examples 	5, 6, 7, 8	
15:00	Case studies John Smith, Facilities manager, An Post James Jones, Fleet Asset Manager, ESB networks	 An Post national post office service Electricity Supply Board – national electricity network ISO50001 experience and results EV transition across multiple small and remote sites Eco driving experience and staff buy in Performance procurement & M&V of savings, 	5, 6, 7,	
15:30- 15:45		Discussion & close		