

AIEA Workshop Energy Efficiency in the Public Sector

4th September 09

Alan Ryan, Programme Manager, Sustainable Energy Ireland, Ireland
01-8082027
alan.ryan@sei.ie



SEI is funded by the Irish Government under the National Development Plan 2007-2013 with programmes part-financed by the European Union.

Contents

- Drivers
- Energy Efficiency in the Public Sector Programme
 - 3 main offerings
 - Case studies
 - PS issues
 - Supports for Exemplar Energy Efficiency Projects (SEEEP) grant



Area	2010	2020 target
RES-E	15%	33%
Ocean		500MW
RES-H	5%	12%
Biofuels	5.75%	10%
Energy Efficiency		20%
EE Public Sector		33%
CHP	400MW	800MW
Transport	130gCO ₂ /K M (2012)	

- Regulatory
 - Display Energy Certificates (>1000m²)
 - Energy efficiency targets (33%)
 - Other annual reporting
- Cost
- Environmental

2020 Vision

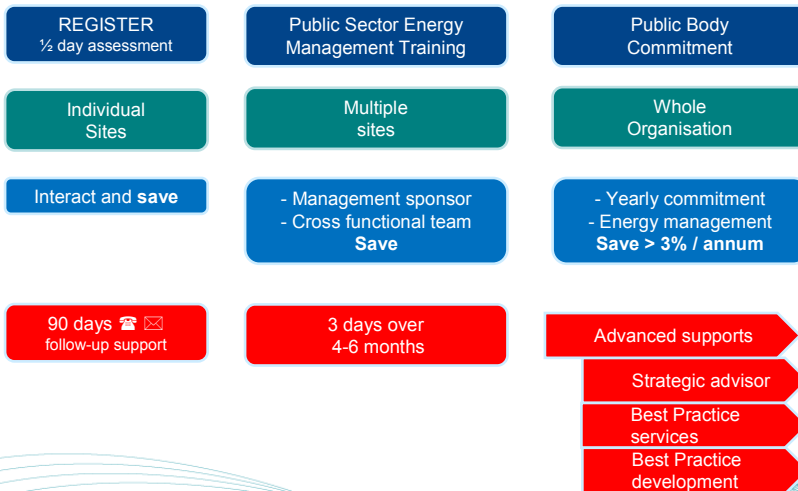
“The public sector will improve its energy efficiency by 33% and will be seen to lead by example – showing all sectors what is possible through strong, committed action”.

National Energy Efficiency Action Plan 2009



SEI is funded by the Irish Government under the National Development Plan 2007 – 2013 with programming and financing by the European Union.

EEPS Programme

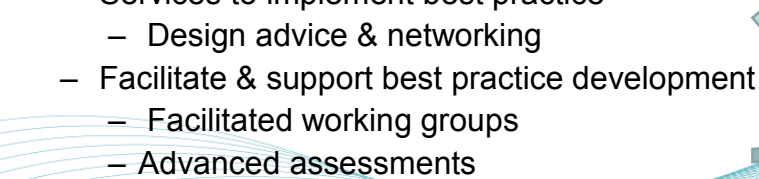



Web Resources - Grants ReHeat, CHP, SEEEP - Awards

- Assessments Savings 0 – 30%
- Training Savings 5 – 25%
 - Local Authorities
 - Louth Kerry
 - Kildare South Tipp
 - Galway Midlands EA
 - North Tipperary Sligo
 - Monaghan Roscommon
 - Leitrim

- ‘Signed up’ in principal

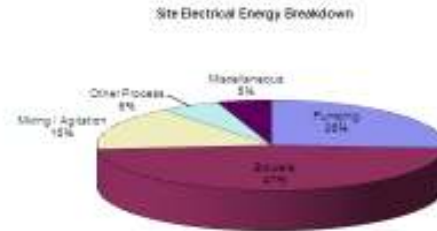


- Public Body commits
 - Annual Energy Management Assessment
 - 3% saving per year
 - Strategic approach
 - SEI commits
 - Strategic Advisor
 - Services to implement best practice
 - Design advice & networking
 - Facilitate & support best practice development
 - Facilitated working groups
 - Advanced assessments
- 

- Advanced tailored services
 - Energy Efficient Design, 1 day to full process review
 - Web portal & networking, launch October 09
 - General supports
 - www.sei.ie/energymap
 - Technology portal, October 2009
 - Grants – SEEEP, ReHEAT, CHP
 - Awards
- 

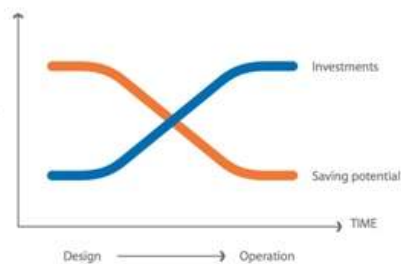
Energy Efficiency Design (EED) Osberstown

- Site Assessment
- Energy Baseline Analysis
- 1 day review with design team
- Report



- Results
 - €190,000 energy savings
 - €200,000 capital cost
- At DOEHLG tender review stage

Saving Potential/Investments



Local Authority Networks

- The Energy Link
 - Online bulletin board and document sharing for exchanging information, ideas and materials.
 - Emails sent directly to members.
- Events
 - Two events year 1 to pump-prime the Network, managed by facilitator(s).

Please Log In to the SEI Network

SEI Network online community

Home | Reminder of Login Details | Help | Apply for Free Membership

Welcome to the SEI Network. The SEI Network is an online community for People involved in Sustainable Energy in Ireland, who have an interest in energy and environmental issues. The SEI Network is funded by Sustainable Energy Ireland.

Username:
 Password:

> If you have forgotten your login details, please: [Request A R](#)
 > If you are a Person Involved in Sustainable Energy in Ireland
 > Please see our [Privacy Statement](#) and [Disclaimer](#) before

If you have checked you are using your correct login details an please email the administrator > admin@network.sei.ie

The SEI Network facilitates the exchange of experience and In Organisations. The SEI Network is based on the principle of le unnecessary cost and wasting valuable time. Why go through l on the fast track to meet your objective. The SEI Network is ;

The information on the SEI Network is provided for convenienc liability for its accuracy or content. Visitors who rely on this Inf

SEI Network online community

Home | Local | Governance | People | Blog | Organisations | Help | Search | Search

Home | Local | Governance | People | Blog | Organisations | Help | Search | Search

Topic	Created	Comments	Views
All Categories			
Energy, Buildings, Policy	1	0	100
Technology	1	0	100
Finance	1	0	100
Accounting, Governance, Marketing	1	0	100
Administration	1	0	100

SEI Sustainable Energy Ireland

Energy MAP

Energy MAP (Energy Management Action programme) is a web-based tool to help you decrease energy use and therefore costs, thus increasing your competitive edge in local and global markets. Energy MAP explains the best practice process in 20 easy to follow steps.

[Learn more about Energy MAP >](#)

1 Commit
 2 Identify
 3 Plan
 4 Take Action
 5 Review

[View all the Energy MAP steps >](#)

Transport EnergyMAP

Your Energy MAP

[Sign in >](#)

Energy MAP

New to Energy MAP?

- [What is Energy MAP?](#)
- [Get an overview of Energy MAP](#)
- [Get started using Energy MAP](#)

Already Managing Energy?

- [Find out how energy MAP can help your business](#)
- [Register for Your Energy MAP](#)
- [Find out how Energy MAP can be used to exceed ISO200](#)

Energy Management Tools

- [Energy saving wizard](#)
- [Download energy calculators and tools](#)

Energy Awareness Resources

- [View all energy awareness resources](#)
- [Get help with running an awareness campaign](#)
- [Download energy awareness templates and resources](#)

Advanced Supports Best Practice Development

Web guidance

- Energy Awareness material
- EPIs / Best Practice sheets

Simple

Advanced

Best Practice Supports & Development

Some adoption

Widespread Adoption

- Energy Efficiency Working Groups in
 - Public Lighting LAs
 - Pumping in LAs
 - Schools EM training pack
 - ICT services

Working Groups

- **Water Services** up to 70% LA energy usage
 - 40 – 60% savings
 - Advanced assessments
 - Tools, competency building, guidance
 - Process design, approval and funding
- **Public Lighting** 15 – 40% LA energy usage
 - Up to 50% savings
 - Technology fixes known
 - Market barriers
 - Tariffs ,Tendering
 - Metering
 - Asset management

PS Training – Schools Training Pack

- Developing Training Pack for Schools
 - Guide
 - Workbook (blank)
 - Sample completed workbook

- Tabs:
 - Store additional information
 - Material developed to complement An Taisce’s Green Schools Programme and gain credits



Summary status

	KPI	Actual
• Advice and Assessments	500	177
• Training	10	12+
• Advanced Supports		
– Committed	10	11+
– Best practice elements		
Services		
• EED	2-3	3
• Energy Link		Launch Oct
Development		
• PL WG / WS WG		✓
• ICT & Heritage bldgs		Proposal
• Technology portals		Lighting
• Sector packs		Schools/Offices/Awareness
• SEEEP	4.25m	5m

Conclusion

- Drivers
- EEPS services
 - AMA
 - Training
 - Advanced Supports
 - Best Practice
 - Services – EED, networking
 - Development – PL, water, schools
 - SEEEP

Advanced Supports Best Practice Activity

	Service	Source	Status	Comment
Methodologies				
	Energy Design review	SEI Industry WG	Pilot	Need for PS WG
Technologies				
	Web tools	SEI	Lighting near complete	
	Solution guides	SEI		

- BP Development
- Energy



Advanced Supports –Best Practice S & D

Simple

Advanced

Best Practice Supports & Development

Straight forward

Complex

- Development
 - Led by members, SEI facilitate
 - Working groups, project teams etc
 - Analyse - Report - Widespread Adoption

- Supports
 - To support ongoing efforts
 - Services i.e. grant programme