

# Resources Available Through SEAI

**Sustainability in Healthcare**

**29<sup>th</sup> September 2011**

**Alan Ryan,**

**Public Sector Programme**

**Manager,**

**SEAI**



## Contents

- The policy, legal and cost drivers
- The new energy marketplace
- Overview of SEAI public sector programme supports
  - Energy management
  - Financial
  - Tailored supports

# Policy Matrix Cost as a driver is a given!

	SMEs	Large Industry	Public Sector
<b>EPBD - SI 666 of 2006</b>	BER	BER	BER & 1000m2 = DEC
<b>Energy Services Directive NEEAP</b>	20% energy efficiency improvement	20% energy efficiency improvement	33% energy efficiency improvement
SI542 of 2009	-	-	<b>Exemplar</b> in EM, procurement practices, audit every 5 years, buy/lease B1 by 2012, A3 by 2015, annual reporting
SI 151 of 2011	-	-	Must only buy Triple E listed equipment and vehicles
<b>NREAP</b>	-	-	Public buildings constructed / renovated after Dec 2011, 'exemplar role' renewable energy
SI 147 of 2011	-	-	Supply, Equipment, Services, Capital projects
<b>Green Public Procurement</b>	-	-	

- Energy Demand Reduction Target (EDRT)
  - Energy suppliers will either develop energy services themselves or work with partners to deliver energy savings
- Better Energy Programme
  - Domestic
  - Workplaces
  - Integrates with the EDRT
- For the public sector...
  - The increased focus on leveraging finance
  - Developing the ESCO / EPC market – accessing 3<sup>rd</sup> party resources
  - The increased focus on reporting and Measurement and Verification

- > Public Sector Programme
- > Large Energy Users
- > SEAI's services for SMEs
- > Quick Wins
- > Energy Technologies
- > Resources
- > Financial Incentives
- > Sustainable Energy Awards
- > Inside the Smart Economy
- > Triple E Product Register



**Welcome to the Business Support Centre**  
 Here you will find information on how saving energy can help cut your business costs and details on resources and financial assistance to help you make savings.



## Quick Wins

Choose your sector for a top ten list of quick wins which are easy to implement and will start to save you money straight away



### Quick Wins by Sector

- » Manufacturing
- » Retail
- » Hospitality & Tourism
- » Education
- » Healthcare
- » Sports & Culture
- » Transport
- » Offices

### Quick Wins by Technology

- » Quick Wins for Lighting
- » Quick Wins for Motors & Drives
- » Quick Wins for Compressed Air
- » Quick Wins for Refrigeration
- » Quick Wins for Heating
- » Quick Wins for Building Management Systems
- » Quick Wins for Variable Speed Drives

more »

[http://www.seai.ie/Your\\_Business/quick\\_wins](http://www.seai.ie/Your_Business/quick_wins)

# Ad hoc approach Technology pages

You are here > Home > Your Business > Energy Technologies > Buildings

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- > Quick Wins
- > **Energy Technologies**
  - > **Buildings**
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- > Resources
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## Lighting



An energy effective lighting installation delivers the necessary lighting for a particular application as efficiently as possible. Additional benefits are reduced maintenance requirements and associated costs by using long life lamps. The information presented here will help you achieve an energy effective lighting installation.

### Guidance

Use this guidance to identify the opportunities for saving with lighting systems

	<a href="#">General Lighting Guide (PDF, 740KB)</a>		<a href="#">Offices (PDF, 1.3MB)</a>		<a href="#">Retail (PDF, 1.2MB)</a>		<a href="#">Hospitality (PDF, 1.1MB)</a>		<a href="#">Schools (PDF, 500KB)</a>		<a href="#">Libraries (PDF, 1.1MB)</a>
	<a href="#">Manufacturing and warehouses (PDF, 1.0MB)</a>		<a href="#">Sports and leisure (PDF, 1MB)</a>		<a href="#">Lighting Controls (PDF, 1.1MB)</a>		<a href="#">Hospitals (PDF, 1.15MB)</a>		<a href="#">External Lighting (In preparation)</a>		<a href="#">Technical Manual (In preparation)</a>

» Quick wins for lighting

€ Financial incentives »

i Tools and resources »

i Success stories »

i Energy saving wizard »



## Energy awareness

You are here > Home > Energy A

## Energy Awareness R

The Energy Awareness Resou... your company. By providing y... energy awareness, your job... pursuing strong energy mana... who just want to tackle ener...

This resource tool is part of the En... Learn about Energy MAP and what i...

<< Go back to step 13 of Ener

## Energy Awareness Campaigns

[Start planning your campaign](#)

[Get help on a specific topic](#)

[Communicate your message](#)

**Start your campaign**

## Resources and tools

You are here > Home > Resources & tools

## Resources and Tools for Energy Management

This section provides you with the tools and resources to support you in your energy management efforts whether it is part of the 20 Step Energy MAP, or you are just looking for a tool to help you with a specific project.

### Energy use and cost savings templates

[Energy bill tracking tool](#)

[Significant energy users](#)

[ESB Tariff analysis tool](#)

**More..**

### Guidance on management and procurement

[Analysing your bills](#)

[List of energy measurement equipment](#)

[Guide on elevator pitch](#)

**More..**

### Planning and management templates

[Register of Opportunities](#)

[Programme Plan](#)

[Energy Opportunity Tracker](#)

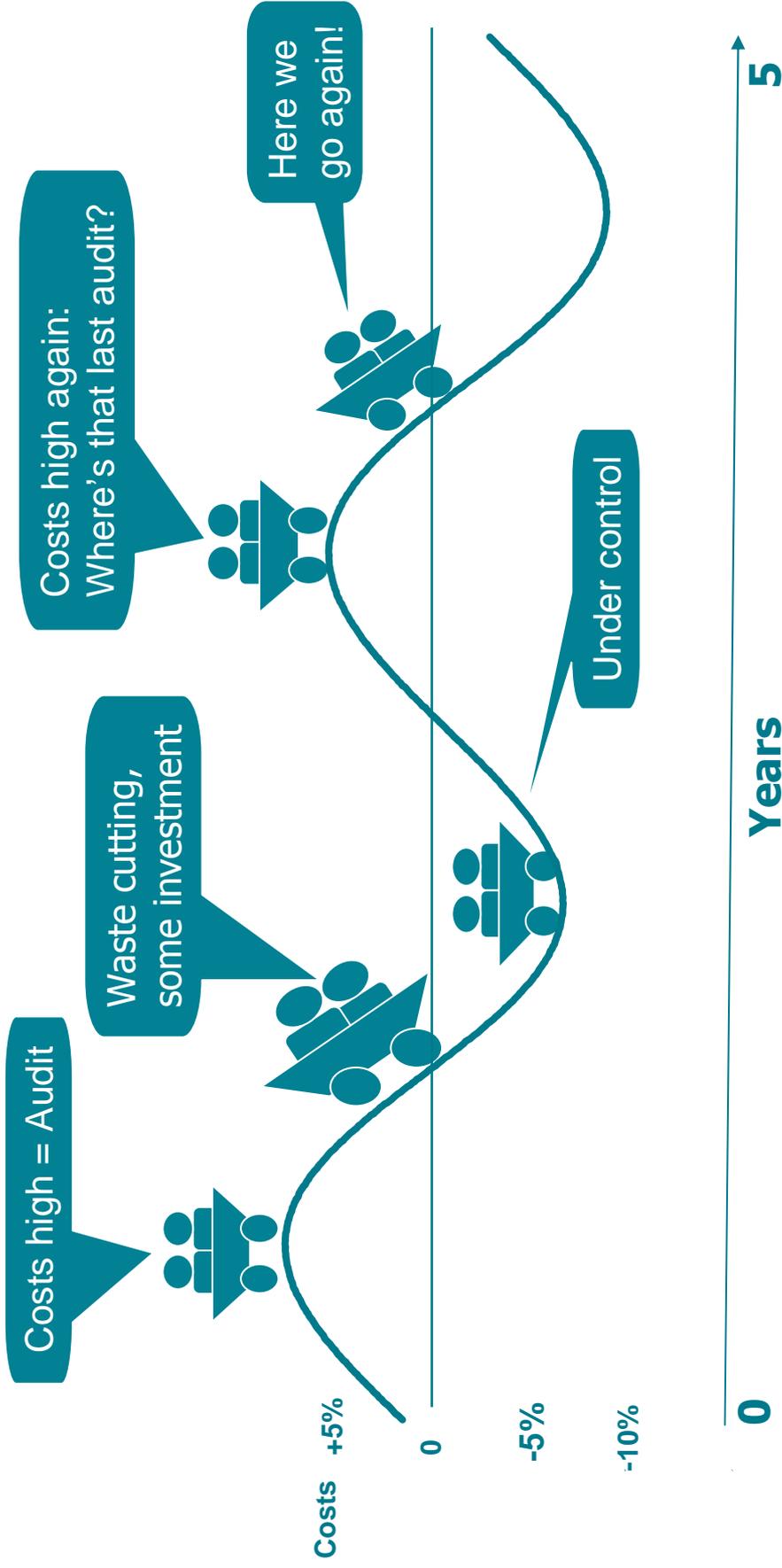
**More..**

### Sample documents

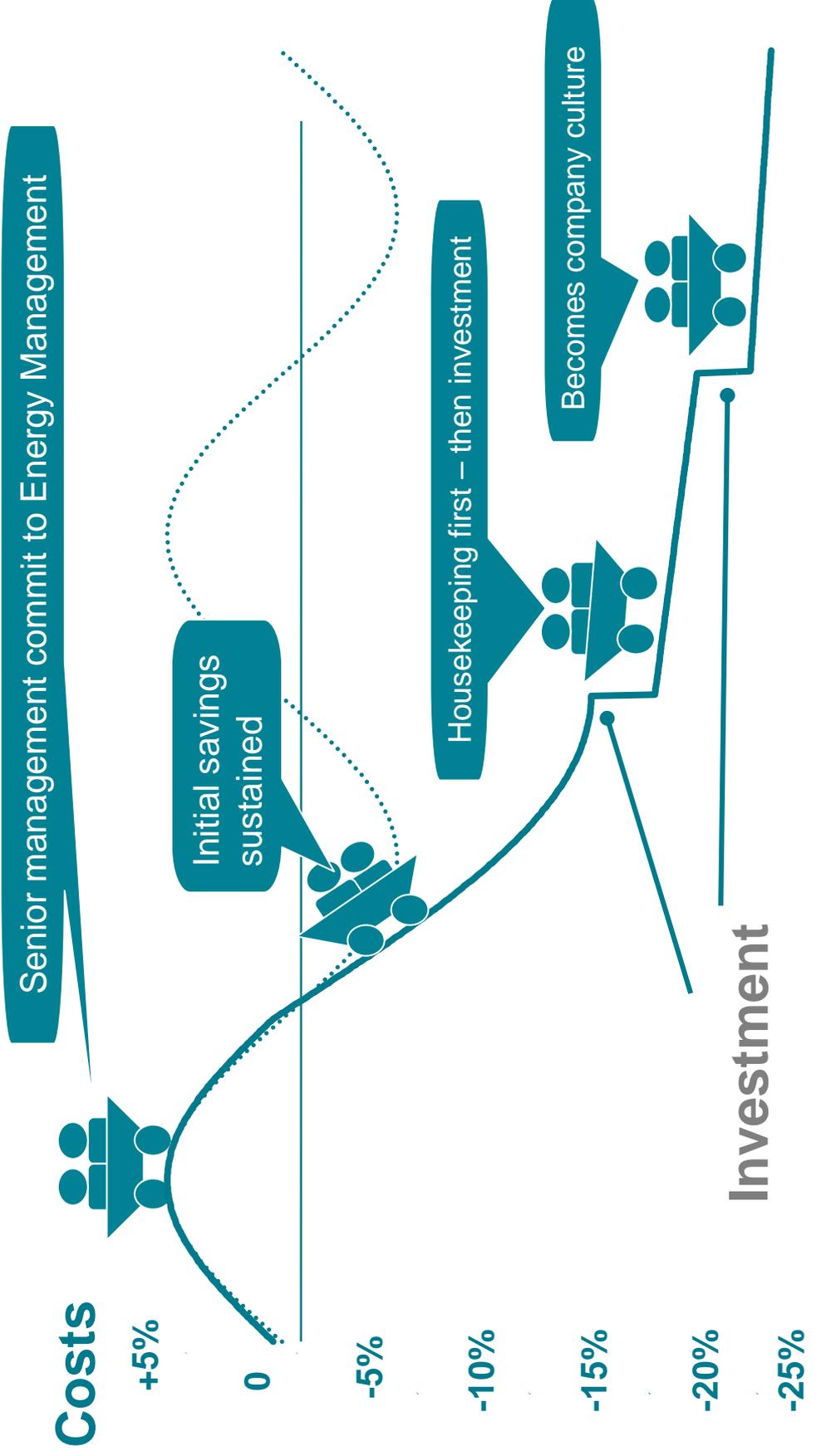
[Sample Energy Policies](#)

**More..**

# DIY, adhoc, projects here and there Is it delivering in the long term?



# Structured Approach

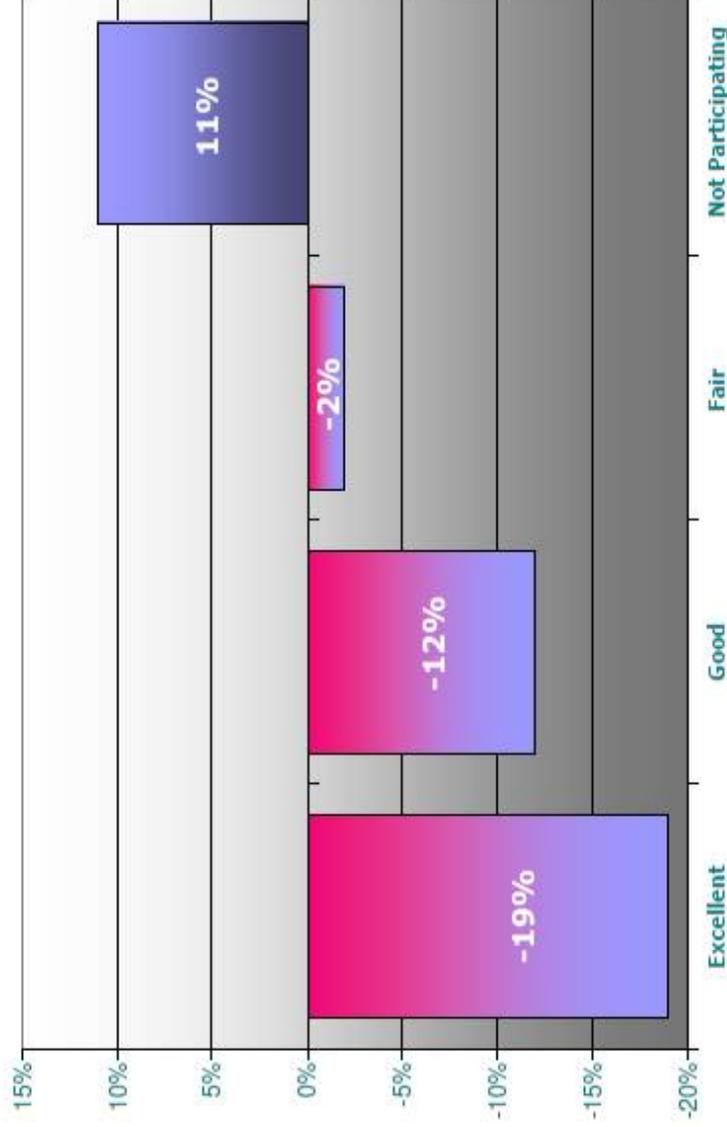


**3 years**

## Levels of Engagement:

The first law of energy efficiency:  
The degree of savings is proportional to your commitment

Average Savings v Level of Engagement





*Playing a leading role in transforming Ireland into a society based on sustainable energy structures, technologies and practices.*

You are here > Home > Your Business > Resources > Structured energy management

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## Structured energy management

Long term savings only come through a structured approach which will safeguard against a lowering of energy standards

### Energy Agreements

Adopt EN 16001 as a way of ensuring continuous improvement and control of energy across all processes.

[Click here for more »](#)



### Energy MAP

Energy Map is a 5 step approach that leads to sustained savings.

[Go to the Energy MAP »](#)



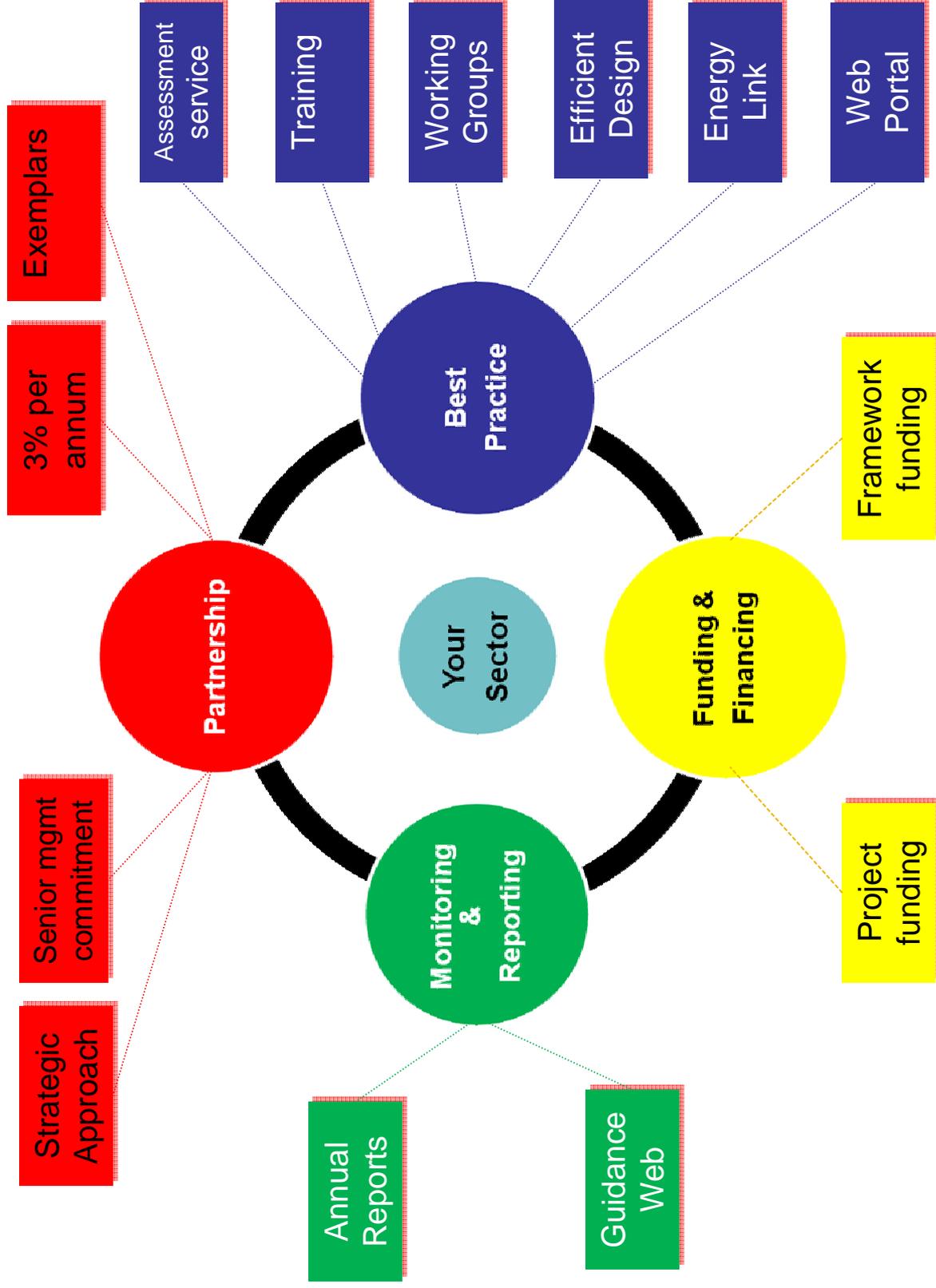
*The core philosophy underlying all our supports.  
Large, sustained savings can only be achieved through structured energy management*



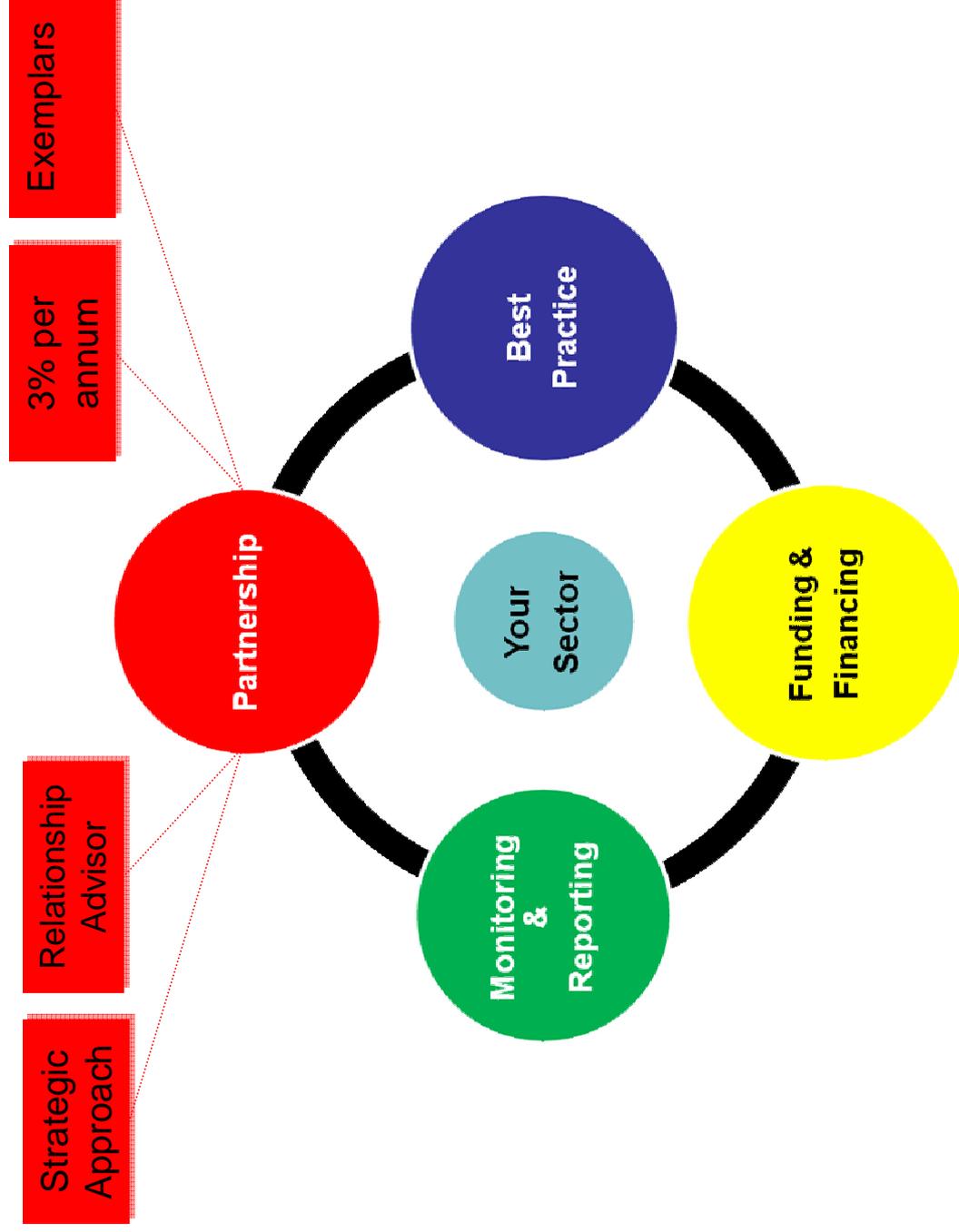
- Top management **commitment**
  - Clear mandate and intent
- **Structure**
  - Embedding energy within the management discipline
- The value of **networks**
  - Sharing, learning, replicating practical experience
- **Resources**
  - Skills - specialist advice, tools, training ...
  - Smart investment



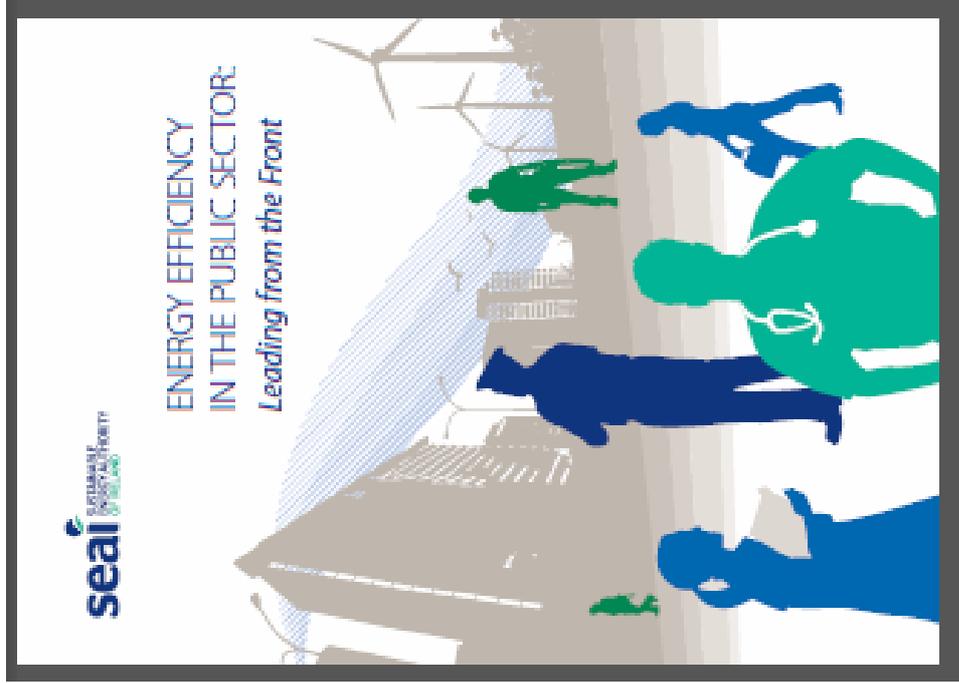
# Public Sector Programme 4 core support areas



# Public Sector Programme



# Partnership Commitment



## To affirm its commitment to energy efficiency

An Garda Síochána

### is a member of SEAI's Public Sector Energy Partnership programme

through which it will lead by example in its contribution to the Public Sector energy efficiency improvement target of 33% set for 2020. It will achieve this by:

- Developing and implementing a structured energy management programme
- Establishing and implementing an annual action plan to deliver energy savings in the short term
- Identifying and implementing longer term strategic initiatives to work towards the target for 2020
- Adopting energy efficient procurement practices
- Reviewing and reassessing the energy management programme annually
- Reporting annually on energy efficiency initiatives and savings made
- Sharing information on progress with SEAI.

SEAI is committed to working in partnership with An Garda Síochána, helping An Garda Síochána to achieve valuable and sustainable energy savings as a contribution to meeting the national target for 2020.



Prof. J. Owen Lewis  
CEO,  
Sustainable Energy Authority of Ireland



# Showing public sector commitment: Partnering for success



Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádúrtha  
Department of Communications, Energy and Natural Resources



AN ROINN DLÍ AGUS CIRT AGUS ATHCHÓIRITHE DLÍ  
DEPARTMENT OF JUSTICE AND LAW REFORM



The Courts Service of Ireland



Irish Prison Service



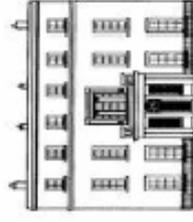
Bus Éireann



Comhairle Contae Chiarraí  
Kerry County Council



Comhairle Contae Thiobraid Árann Thuaidh  
North Tipperary County Council



AN ROINN | DEPARTMENT OF  
OIDEACHAIS | EDUCATION  
AGUS SCILEANNA | AND SKILLS



OPW

The Office of Public Works  
Oifig na nAíonnaíochas Poiblí



An Garda Síochána  
Ireland's National Police Service



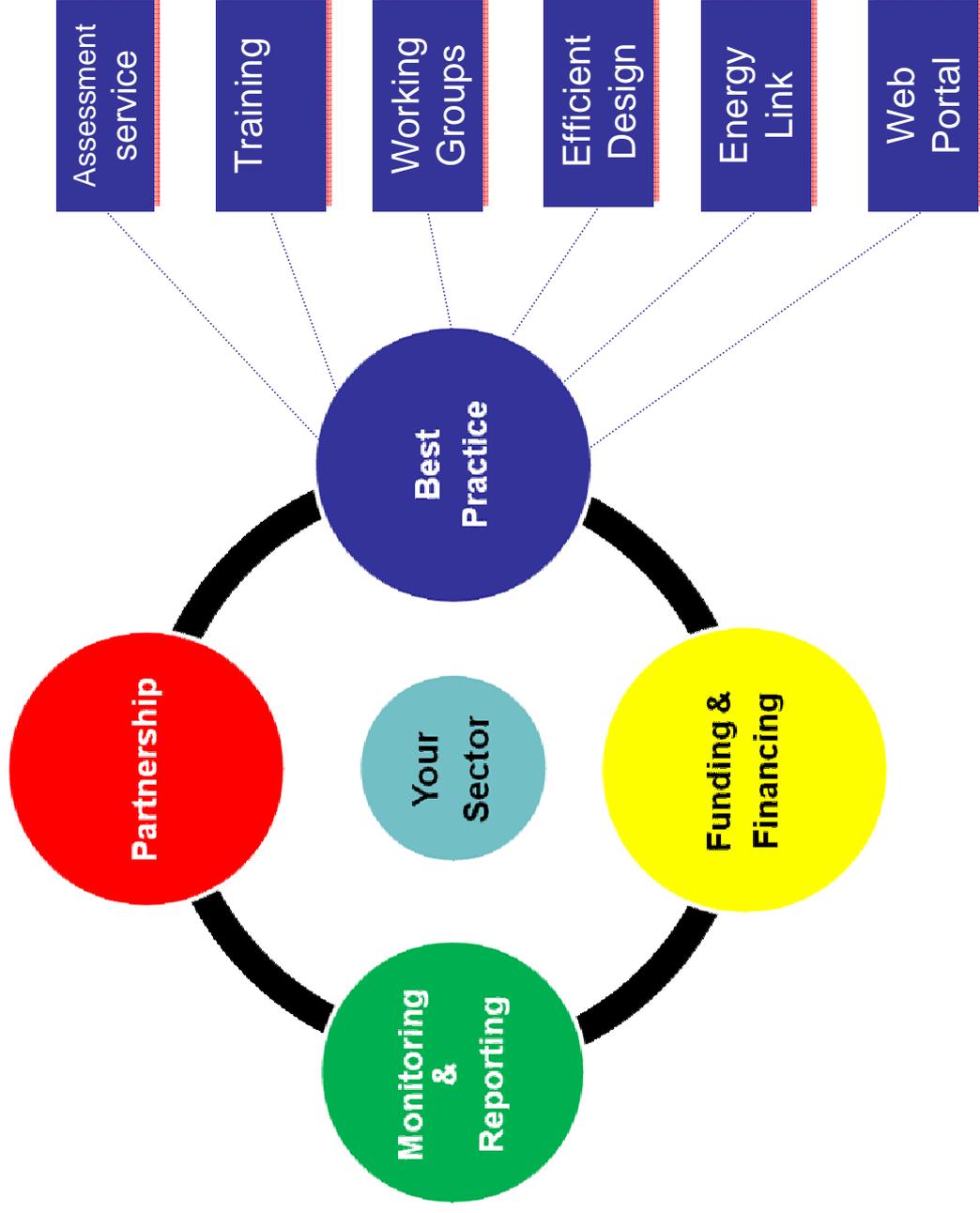
THE DEFENCE FORCES



Feidhmeannacht na Seirbhíse Sláinte  
Health Service Executive



# Public Sector Programme



## Success to date

Over 500 public sector assessments

Identifying and implementing measures that result in an

average saving of 11% of their annual energy costs

within 1 year

Many assessments in healthcare

Partners get so many per year

**Total savings amount to €48M**

## Energy MAP/Small Business Training Public Sector and SMEs

- 3 workshops over 6 months
- Public Sector 21 local authorities 25 PS bodies
  - 1 client saved €100,000 after day 1
  - HSE partnership – HSE North East Region Energy MAP programme
    - John Reilly, John Kelly and Willie McClean for details
- **Minimum 5%, Avg 10-15%**

**15-30% of energy costs**

**€50 million expenditure**

**Savings of up to 30%**



**15-20% of building electricity use**

**Savings of up to 30%**



**60% of electricity use in local authorities, costing €48m per annum**



**Savings of 20-30%+**

# Energy Efficiency Design (EED)



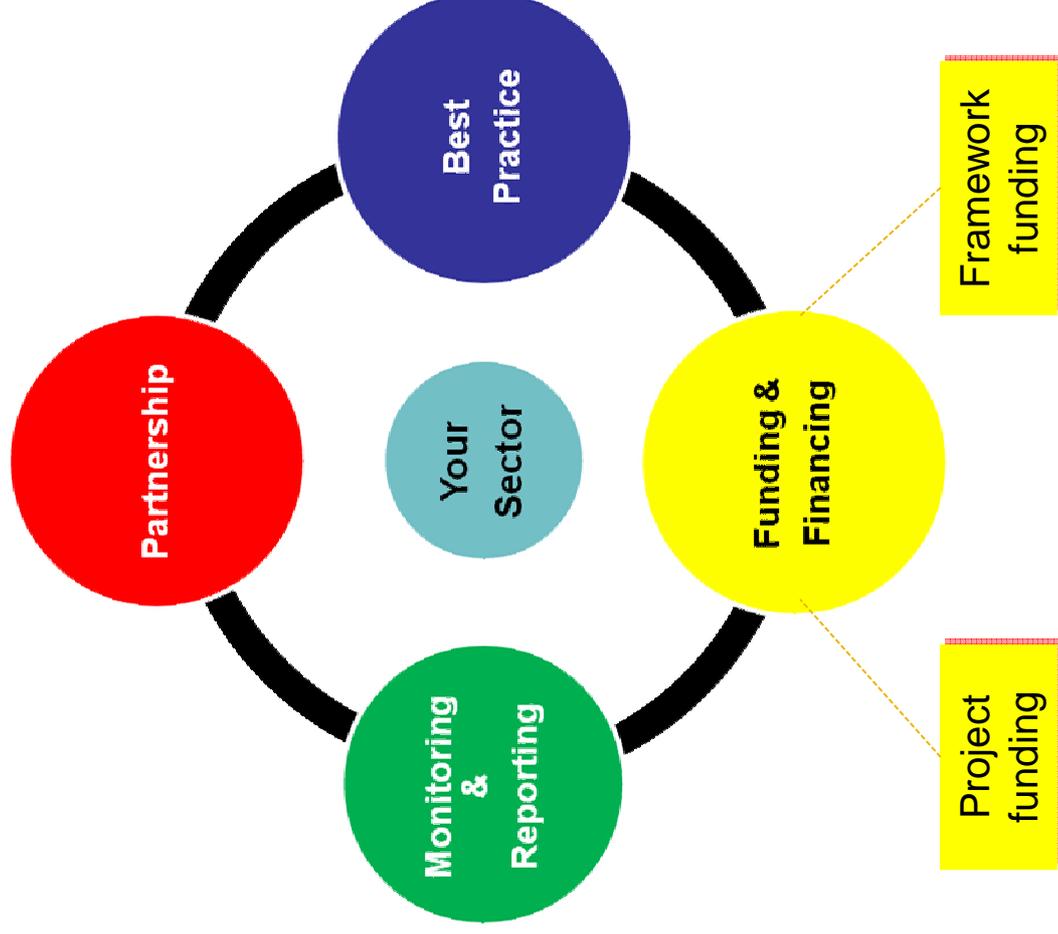
## 2009 Pilot

<b>Public Body</b>	<b>Sector</b>	<b>Kildare County Council</b>	<b>Kildare County Council</b>	<b>Laois County Council</b>	<b>Kildare VEC</b>
<b>Project Overview</b>		Osberstown Waste Water Treatment Plant Upgrade	Leixlip Waste Water Treatment Plant Upgrade	Portlaoise & Mountmellick Water Supply Network Upgrade	Athy Community College
<b>EED Date</b>	<b>Review</b>	22 <sup>nd</sup> May 2009	9 <sup>th</sup> Sept 2009	10 <sup>th</sup> Nov 2009	8 <sup>th</sup> Oct 2009
<b>Stage of Design</b>		Detailed Design	Conceptual Design	Conceptual Design	Commissioning
<b>Estimated Savings Identified €</b>		EUR177,000 (29.9% of annual energy bill)	EUR225,710 (26.8% of annual energy bill)	EUR41,990 (9% of annual energy bill)	EUR22,735 (5.6% of annual energy bill)
<b>Estimated tonnes/annum CO2 Saved</b>		582	907	191	83
<b>Comments</b>		Many of savings have negligible cost as they are built into final revision of tender documents.	Additional Capital Savings of EUR367,000 identified but potentially difficult to unlock		Note-Project was almost complete. Some of the savings identified are alternatives.

# Energy Link for energy coordinators & teams

- SEAI / WSTG host network
  - Online forum
  - Seed with experts
  - 2-3 workshops per year
- Hot topics – procurement, awareness, grants, renewable energy etc
- 1<sup>st</sup> event 16<sup>th</sup> June on Obligations on the PS
- 2<sup>nd</sup> event in November on procurement





## **SEAI 2009 Supports for Exemplar Energy Efficiency Projects**

- Total fund 5m, 74 projects, max grant €100,000

## **Energy Efficiency Fund 2010**

- Total fund 11m, 60 projects, max grant €500,000

## **DEHLG Small works 2011**

- Proposed energy efficiency become an applicable category

## **Better Energy Programme**

- Better Energy Workplaces 11.5m funding

*"The money of the EPC program is already  
in your budget, currently you are spending  
it on wasted energy"*

Hans Symanczik, member of the eu.bac\* Board

\*European Building Automation and Controls Association



Taken from presentation by  
David O'Connor, Fingal  
County Manager at Financing  
Retrofit in the Public Sector  
conference 27<sup>th</sup> May 2011

- Better Energy Workplaces grant
  - 11.5m
- ESCOs
  - In 2011, assist at least 1 public sector body to go to tender for an energy performance contract
  - Working group for common awareness and address common issues
  - Working with
    - HSE
    - Local Authorities
    - Government agencies
    - Schools
    - Public lighting

# Financial & Other Supports

Triple E Products Register

Accelerated Capital Allowance

Sustainable Energy Awards

Commercial Grants

R&D Grants

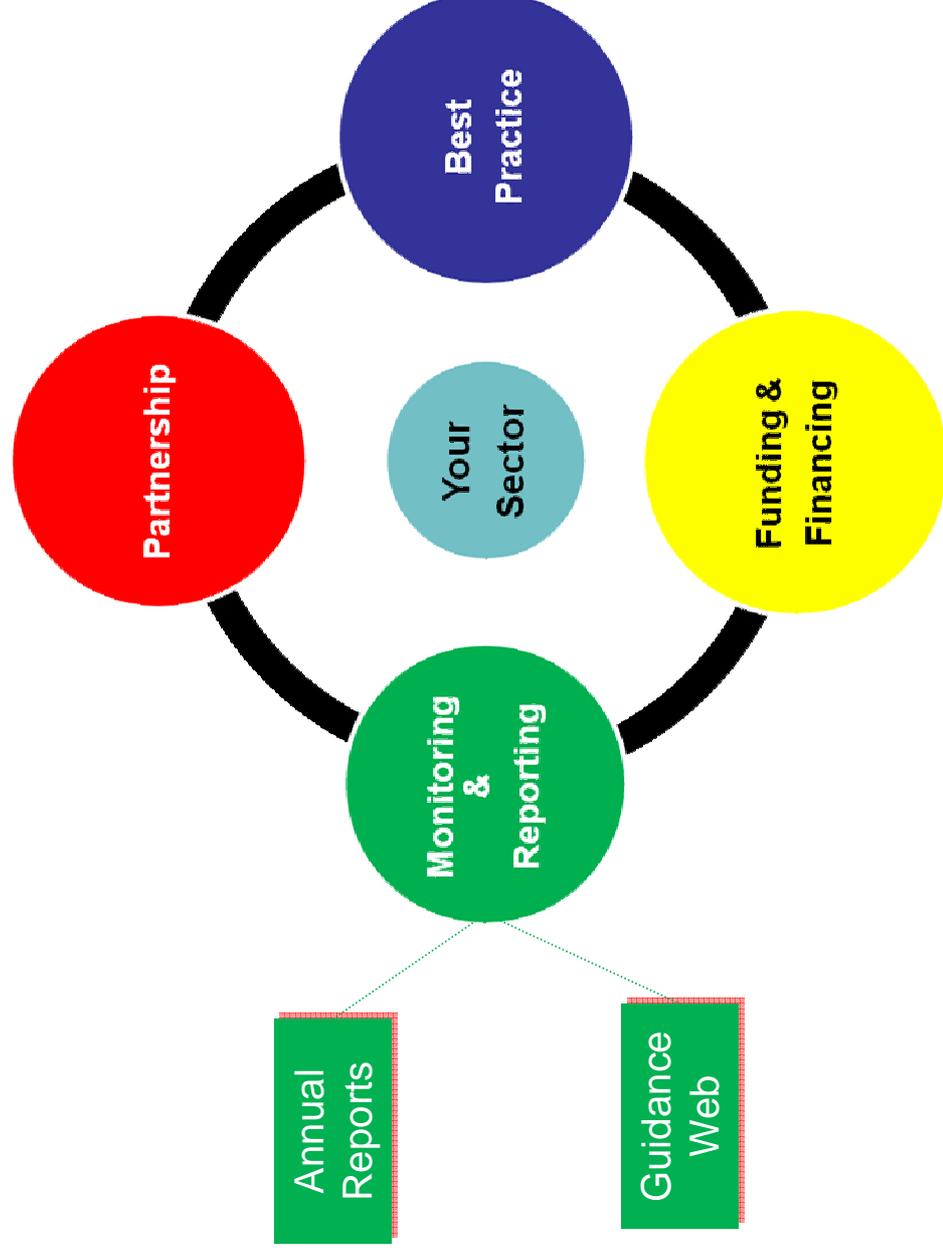
Other Grants

?

EU IEE

Electric Vehicles, Incubator

SMEs	Large Industry	Public Sector
➔	➔	➔
➔	➔	
➔	➔	➔
BEW	BEW	BEW
➔ Also EI	➔ Also IDA	➔
➔ Also EI	➔ Also IDA	➔



- From early 2011, Public Sector bodies must include an energy efficiency statement in their annual report
- In 2011, SEAI implementing a monitoring and reporting system for PS bodies
  - Monitoring progress towards the 33% target
  - Targets for public bodies
- Pilot commenced Sept 2011
- Initial report Dec 2011
- 1<sup>st</sup> full year of reporting 2012

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# Thank You

email queries to  
[alan.ryan@seai.ie](mailto:alan.ryan@seai.ie) or  
[publicsector@seai.ie](mailto:publicsector@seai.ie)



Ireland's EU Structural Funds  
Programmes 2007 - 2013

Co-funded by the Irish Government  
and the European Union



The Sustainable Energy Authority of Ireland  
is financed by Ireland's EU Structural Funds  
Programme co-funded by the Irish Government  
and the European Union.