

Energy Management Programmes

IEA Policy Pathway Series

Workshop 30 Sept. 2011 IEA, PARIS





Presentation overview



- What the Policy Pathway is not about
- Definitions used in this Policy Pathway
- Overview of Energy Management Programmes (EnMPs)
- Towards EnMS and EnMPs
- Examples of country programmes
- Policy Pathway Steps
- Stakeholders
- Issues covered in this workshop
- Key questions for discussion





What the Pathway is NOT about



- Whether standardised EnMS is preferable
- Which standard is best
- Energy manager or energy audit programmes
- Energy savings or GHG policies in general

==> This policy pathway focuses on policies that stimulate the uptake of EnMs in industry



Energy Management – key definitions

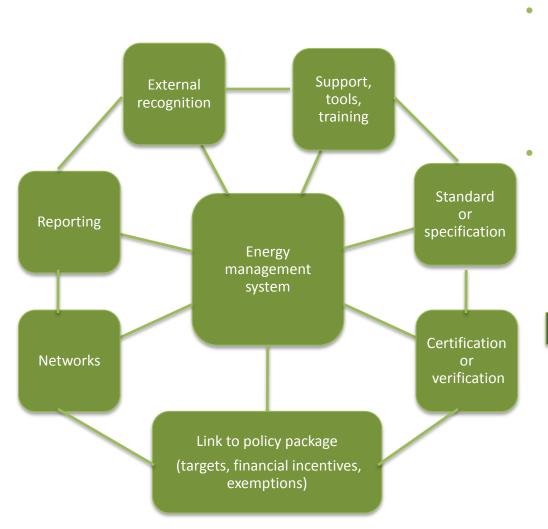


- Energy management system (EnMS): a means by which organisations establish the systems and processes necessary to achieve operational control and continual improvement of energy performance
 - EnMS standards e.g. ISO 50001, EN16001
 - EnMS specifications: Netherlands' energy management specification, Finland's Energy Efficiency System
- **EnMS components**: the various energy management activities that all together make up the EnMS, e.g. energy audit, energy manager, reporting.
- **Energy management programmes (EnMP):** government-led initiatives to promote effective EnMS.
- EnMP elements: different initiatives developed or supported by the government, that, all together, make up the EnMP and serve to encourage enterprise adoption of effective EnMS.



Overview of Energy Management Programmes





Importance of country context:

- Objectives of the programme
- EnMS standards or specified
- Policy packages

SMEs vs. large companies

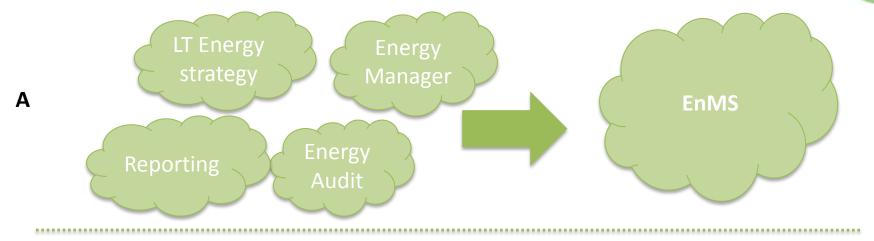


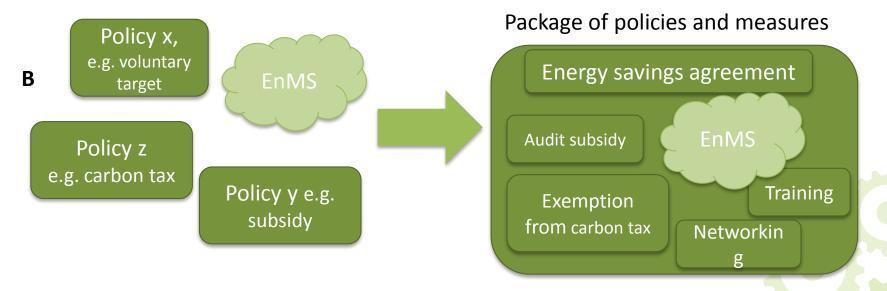
IMPLEMENT &
ACHIEVE ENERGY
SAVINGS & COBENEFITS



Defining the Objectives







How to integrate EnMS within the existing policy package?



Country examples



- Countries that promote standardised EnMS:
 - Ireland
 - USA
 - Denmark
 - Sweden
- Countries that promote specified EnMS
 - Finland
 - Netherlands
- Countries that promote EnMS components
 - Australia
 - India
 - Japan





Policy Pathway: Steps



Four phases	10 Critical elements
Plan	Define the programme
	Establish the policy framework
	Define the action plan and secure necessary resources
Implement	Provide institutional assistance and training for the programme
	Promote the programme and recognise achievements
Monitor	Collect and analyse data
	Assess compliance
	Communicate results
Evaluate	Evaluate the impact of the EnMP
	Revise and adapt the programme as needed



Stakeholders



Companies

- Leading or pilot companies can play an important role in demonstrating the benefits of the EnMP e.g. case studies and networking opportunities
- Introducing EnMS within their supply chain

Government and energy efficiency agencies

- Responsibility for creating an effective mix of incentives, guidance and support to encourage EnMS adoption
- Verification role greater for non-standardised EnMS

Certification and accreditation bodies

Ensure the integrity of the EnMS if standardised

Industry associations

- Can provide interface between companies and government
- Help establish guidelines for sector implementation of EnMS

Independent experts

e.g. engineers may provide independent advice to companies

==> Involvement and consultation is key at all steps



Overview of Workshop



- 1. Companies needs and perspectives
 - Benefits and co-benefits of energy management
 - Large companies and SMEs
 - Quantifying energy savings in a plant
- Country approaches to EnMPs
 - Integrating energy management programmes into policy packages
 - Importance of linking other elements, e.g., networks, incentives, external recognition, training, technical expertise
- 3. Monitoring and evaluation of EnMPs
 - Can we / How to measure its contribution within the policy package
- 4. The Policy Pathway
 - Key messages from the workshop
 - Discussion on the Policy Pathway steps



Key Questions For Discussion Today





What lessons learnt from countries' experience with EnMP?

What contributed to successful planning, implementation, monitoring and evaluation?

What are the key lessons learned in the evaluation of energy management programmes? What should policy makers be particularly aware of?

Are the Pathway Steps complete?





Thank you!

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Appendices







IIP at a glance....

OUR MISSION To significantly reduce GHG emissions by giving business leaders and policymakers access to effective practices, technologies and tools to advance industrial productivity.

WHO WE ARE

- A non-profit established by the ClimateWorks Foundation in 2010
- Strategically linked to a global network of groups addressing climate change
- Work in partnership with industries, governments, financial institutions etc.

WHAT WE DO

- Share best practices
- Policy assistance
- Financial expertise
- Technical support
- Research funding





Countries with EnMS and EnMPs – examples



• Ireland:

- Voluntary agreement: Energy Agreement Programme (EAP)
- Requirement to implement EnMS standard EN16001
- Support: Agreement Supports Manager, Special Initiatives
- Training: several types tailored to different stakeholders
- Networking

USA

- Superior Energy Performance programme
- Implementation of ISO 50001
- Incentives: external recognition through silver, gold and platinum awards
- Training

Denmark

- Voluntary agreement: Agreement on Industrial Energy Efficiency (DAIEE)
- Requirement to implement EnMS standard EN16001
- Incentives: exemption from carbon tax
- Support: subsidises for audits and energy saving equipment
- Training





Countries with EnMS Components



- Australia's Energy Efficiency Opportunities (EEO) programme
 - EnMS components: mandatory in-depth energy assessment, mandatory reporting
 - Support and training: Industry Support Officers (ISOs) and annual EEO workshops
 - GHG targets following a carbon tax (discussed)
- Japan
 - EnMS components: mandatory energy managers and energy efficiency and conservation plans
 - Voluntary GHG targets under the Keidanren programme
 - Subsidies and training?
- India
 - EnMS components: mandatory energy auditor and managers
 - EE targets under the Perform Achieve Trade
 - Trainings

