Policies and Global Uptake of EnMS: Opportunities and Challenges

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Global Energy Efficiency Accelerator Platform and Progress in Accelerating Industrial Energy Efficiency

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Global Uptake of EnMS-ISO 50001

ISO 50001- Worldwide total

- Middle East
- Central and South Asia
- East Asia and Pacific
- Europe
- North America
- Central / South America
- Africa

ISO Survey 2015
Global Uptake of EnMS-ISO 50001

Top 10 countries for ISO 50001 certificates - 2015

- Germany: 5700
- United Kingdom: 1200
- France: 1000
- Italy: 900
- India: 700
- Spain: 500
- China: 500
- Taipei, Chinese: 400
- Austria: 200
- Thailand: 100

ISO Survey 2015
Challenges to EnMS-ISO 50001

EnMS-ISO 50001 success in delivering expected benefits and impact to organizations and countries will depend on:

- Level and quality of policy support, including regulation, granted to the implementation EnMS/ISO50001
- Availability of competent consultants to guide, train & assist organizations in implementation
- Credible demonstration to organizations and the market of EnMS/ISO50001 tangible benefits
Policies to support EnMS-ISO 50001

Sticks
- Energy or Carbon taxes
- Environmental legislation
- Mandatory implementation
- Energy Saving Obligation Schemes and White Certificates
- Mandatory competencies/professional requirements

Carrots
- Tax avoidance and rebates
- Cost-free or subsidized EnMS expert assistance and/or energy audits
- Funding schemes for energy management systems
- Long-term voluntary agreements
- Training and qualification programmes

Tambourine
- Peer-to-peer networks
- Award and recognition programmes

Adapted from Clemens Rohde
### Policies to support EnMS-ISO 50001

<table>
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<tr>
<th>Country</th>
<th>Policies/Programmes</th>
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<tbody>
<tr>
<td>Germany</td>
<td>- Energy taxes&lt;br&gt;- Mandatory energy audits for non-SME&lt;br&gt;- Funding schemes for energy management systems&lt;br&gt;- Energy efficiency networks</td>
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<tr>
<td>Netherlands</td>
<td>- Environmental law obligation to make IEE investments&lt;br&gt;- Long-Term Agreements including&lt;br&gt;  - Subsidies for audits&lt;br&gt;  - Financial incentives&lt;br&gt;  - Access to credit lines</td>
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<tr>
<td>Ireland</td>
<td>- Energy Agreements Programme including&lt;br&gt;  - Training&lt;br&gt;  - Financial support&lt;br&gt;  - Expert advice and assistance for implementation</td>
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**IN DESIGN POLICIES**

- Take due account of existing baselines
- Strive for a programmatic framework
Opportunities offered by EnMS-ISO 50001

- Pillar for national and local industrial EE, modernization and competitiveness enhancement programmes
- Tackle organizational and behavioral barriers to industrial energy efficiency → “paradigms shift”
- Achieves long-term sustainability & improvement of energy performance
- Innovative in addressing investments barriers
- Highly cost-effective and industry/country appropriate fit
- Facilitate and accelerate technology upgrade and innovation
- Applicable to all economy sectors → economies of scale → boost EE service sector, including job creation
- Wide portfolio of proven policy best practices and experiences
Opportunities offered by EnMS-ISO 50001

Energy Management at a local Level – Covenant of Mayors

- As of Sep 2015, 5951 local authorities signed the Covenant of Mayors (ca. 172 million inhabitants in the EU-28)
- 22 signatories submitted full monitoring report named as "CoM sample" (ca. 11 million inhabitants)
- Great majority of measures proposed relates to Energy Management

Source: T. Serrenho, IET-JRC
Looking ahead

MORE WORK IS NEEDED

• Policies and institutions
• Competencies development
• Conformity assessment
• Energy performance measurement
• Tools for implementation
  ✓ EnMS Sectoral Guides
  ✓ EnMS for Small companies
• EnMS for Cities and Regions
• Knowledge management
• Collaborative partnerships

UNIDO-GEF Global EnMS-ISO 50001 Program

25 years
GLOBAL ENVIRONMENT FACILITY
INVESTING IN OUR PLANET

Operational in 17 countries
Planned activities in 10 countries

Projects ongoing
South Africa
Moldova
Russia
Turkey
Ecuador
Malaysia
Thailand
Viet Nam
Philippines
Indonesia
Egypt
Iran
Ukraine
Colombia
Macedonia
Myanmar
India

SUSTAINABLE ENERGY FOR ALL

Global Industrial Energy Efficiency Accelerator
Thank you for your attention

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