

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**

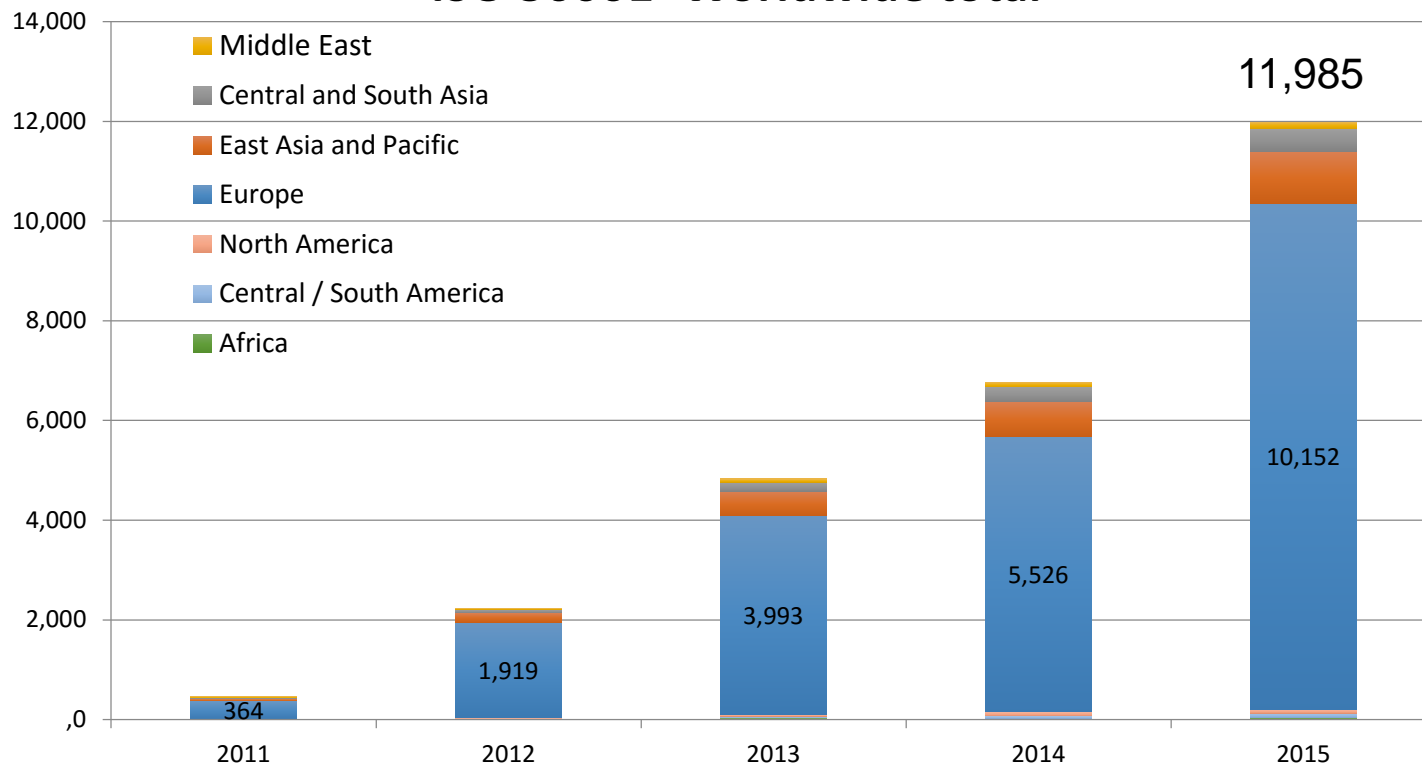
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**7TH INTERNATIONAL
FORUM ON
ENERGY FOR
SUSTAINABLE DEVELOPMENT**
18-21 OCTOBER 2016 • BAKU-AZERBAIJAN

Global Uptake of EnMS-ISO 50001

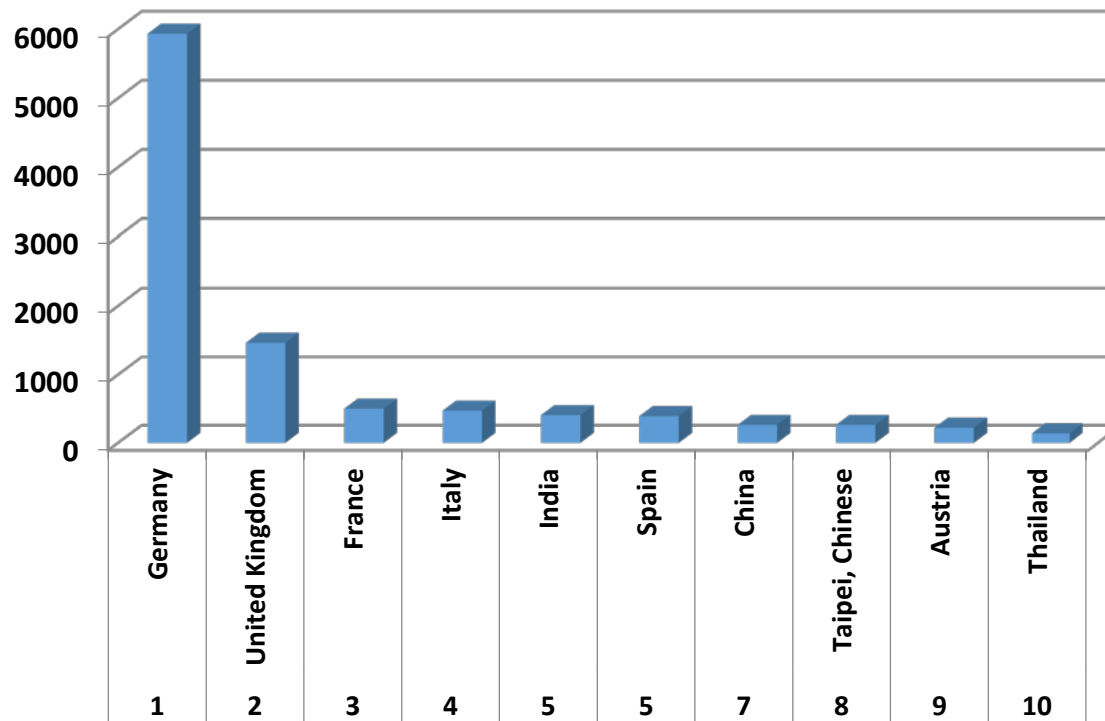
ISO 50001- Worldwide total



ISO Survey 2015

Global Uptake of EnMS-ISO 50001

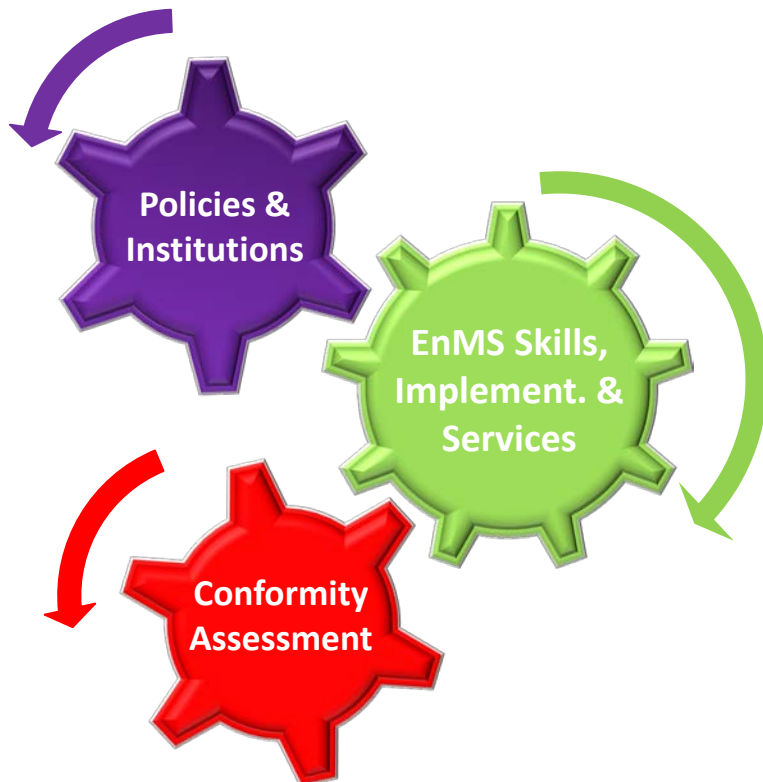
Top 10 countries for ISO 50001 certificates - 2015



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

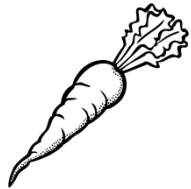
Policies to support EnMS-ISO 50001

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

Germany

- Energy taxes
- Mandatory energy audits for non-SME
- Funding schemes for energy management systems
- Energy efficiency networks

Netherland

- Environmental law obligation to make IEE investments
- Long-Term Agreements including
 - ✓ Subsidies for audits
 - ✓ Financial incentives
 - ✓ Access to credit lines

Ireland

- Energy Agreements Programme including
 - ✓ Training
 - ✓ Financial support
 - ✓ Expert advice and assistance for implementation

IN DESIGN POLICIES

- Take due account of existing baselines
- Strive for a programmatic framework

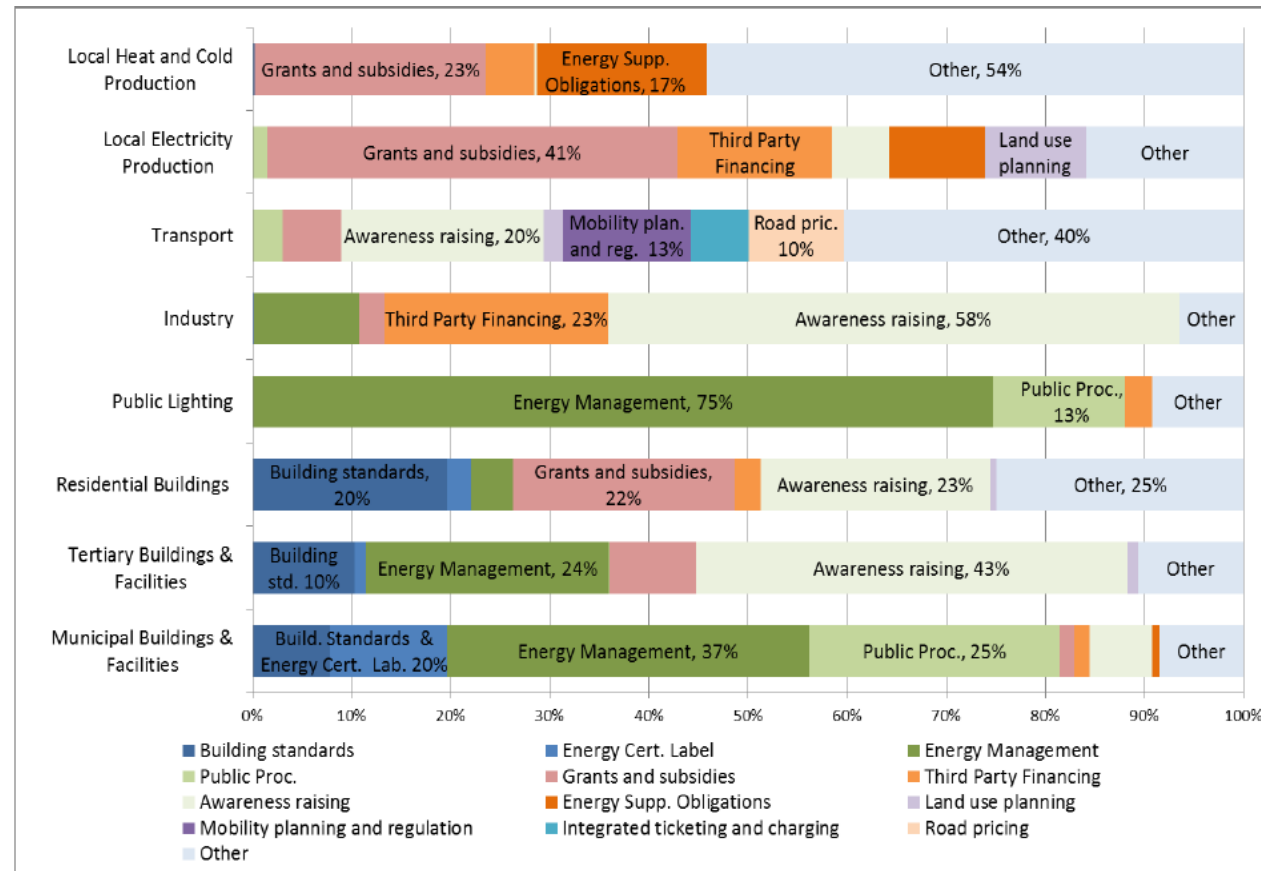
Opportunities offered by EnMS-ISO 50001

- 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

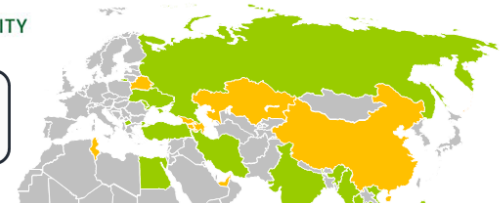
- Policies and institutions
- Competencies development
- Conformity assessment
- Energy performance measurement
- Tools for implementation
 - ✓ EnMS Sectoral Guides
 - ✓ EnMS for Small companies
- EnMS for Cities and Regions
- Knowledge management
- Collaborative partnerships

UNIDO-GEF Global EnMS-ISO 50001 Program



Operational in 17 countries
Planned activities in 10 countries

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



Energy Management Working Group



New Global Campaign launched at CEM7, June 2016



SUSTAINABLE ENERGY FOR ALL

Global Industrial Energy Efficiency Accelerator



Thank you for your attention

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