

Energy Efficiency in Industry

- Energy Management and EMAK -



International
Energy Agency

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EEU

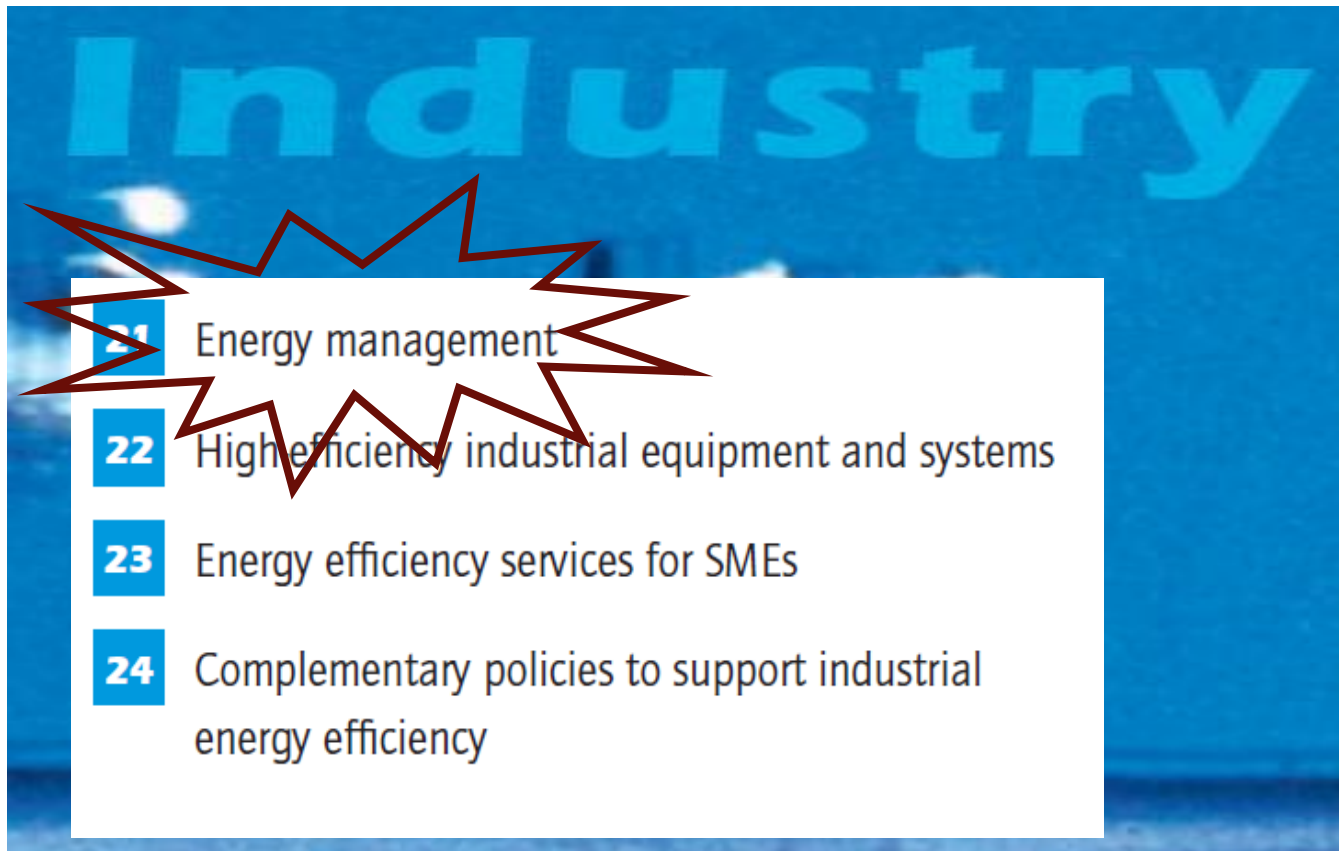
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EM (Energy Management)

- A loose collection of business processes, carried out at plant and firms, designed to encourage and facilitate systematic, continuous improvement in energy efficiency
- EE improvement with same technology
- Can be applied to
 - Industry
 - Buildings
 - Equipment system like motor or heating systems

Industrial Energy Efficiency Policy Recommendations

- One of 7 energy-consuming sectors addressed by the IEA's 25 EE policy recommendations



Establishment of EMAK by IEA

■ Background

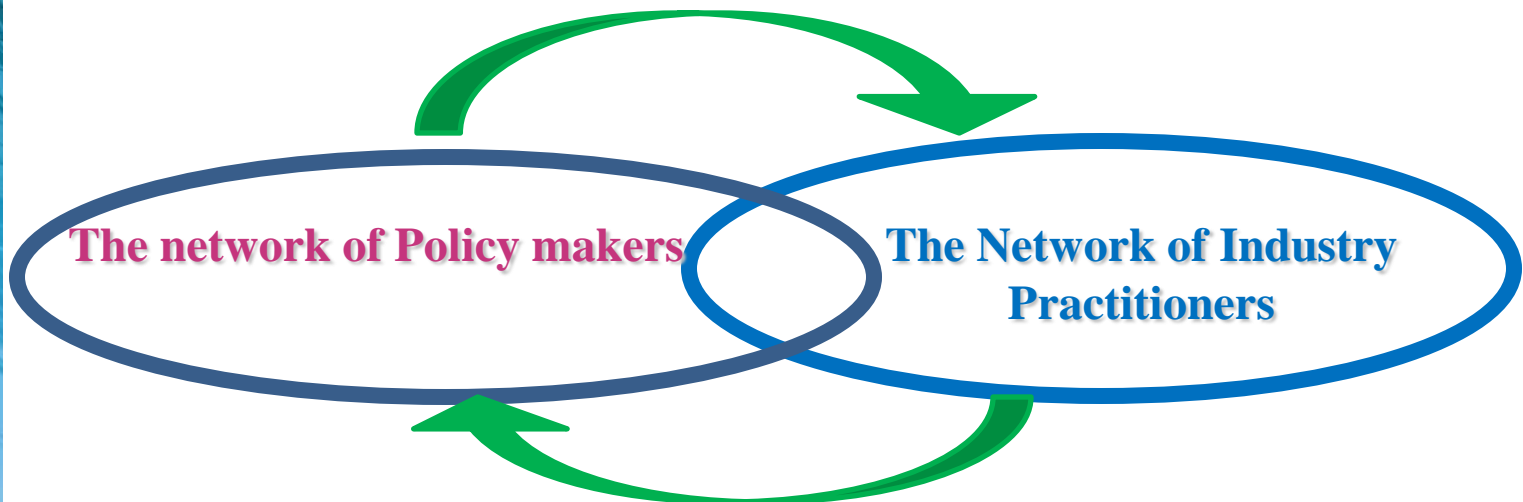
- ✓ Many untapped energy management opportunities
 - EM could deliver about 10% of global primary energy consumption in industry (IEA 2009)
- ✓ A lot of gaps were identified in current EM practice and supports
 - Insufficient practice of cost-effective EM, the continued need to support improvements in the quality of EM practice

➡ To create a robust forum to promote energy management in industrial sector

* Currently one of IPEEC tasks led by Japan in support of IEA

How EMAK works

- EMAK interconnects two key networks : policy makers and industry practitioners who are responsible for EM.
- Promoting effective energy management in industry is essential to meeting national energy efficiency goals
- Any countries already have good experience in policies relevant to industrial energy management
- Government has a key role in promoting good industrial energy management policies and measures



Main activities of EMAK

- Information sharing
 - ✓ Through the workshops and training programs information and best practices on EM discussed and shared
- Network building
 - ✓ Identify the critical audiences and establish the network among them through key communication channels like events & websites
- Supporting measures
 - ✓ manual or guide to help plan, implement and monitor EM effectively

Current Status of EMAK

- Three workshops were held
 - ✓ 1st Workshop in Paris in January 2010
 - Sharing the knowledge and experiences on broad energy efficiency policies
 - ✓ 2nd Workshop in Washington DC in May 2010
 - How industry and government cooperate
 - ✓ 3rd Workshop in China in November 2011
 - Focusing on heavy industry sectors
- Tentative website is operating
- Policy pathway for EMS published
- One webinar was held in March 2012

The way forward for EMAK

- Private sector is actively embracing energy management principles.
- National conditions must always be considered when developing industrial energy management approaches
- However, experience to date suggests some consistently successful approaches worth sharing



- **EMAK can help connect relevant people in both government and the private sector.**
- **Key areas for information sharing – benchmarking, education, capacity building needs etc**

Future Plan of EMAK

- Next (4th) Workshop
 - ✓ considered to be held in Russia in conjunction with IPEEC PoCo in Oct. 2012
 - ✓ focusing on interests of Russia ?
- 5th Workshop in Japan 2013
- EMAK Steering Committee
 - ❖ back to back with IPEEC ExCo in September 2012
 - ❖ Japan, US, Australia, China
- 2nd Webinar in September



**Energy
Efficiency
Governance**

Thank you for your attention !