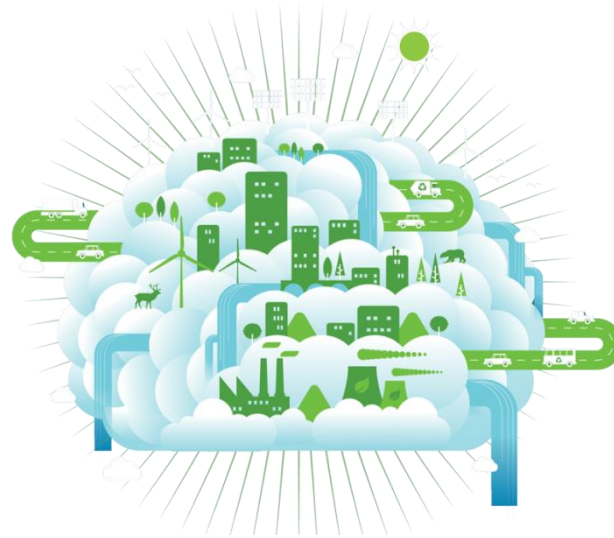


UNIDO

Industrial Energy Efficiency Programme



UNIDO's Mandate: Inclusive & Sustainable Industrial Development (ISID)

Thematic Areas:



Creating shared prosperity

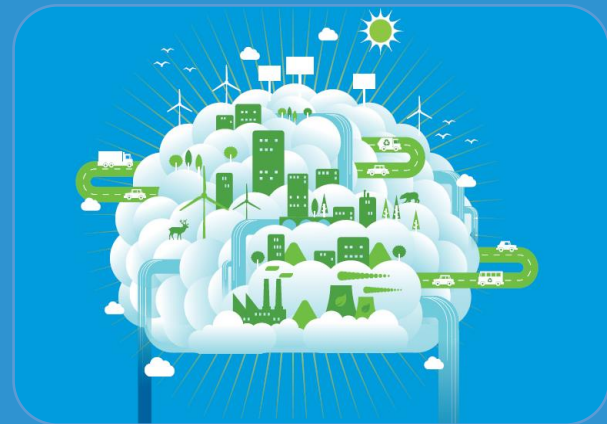


Advancing economic competitiveness



Safeguarding the environment

Achieving **equitable & sustainable** social, economic and environmental growth while mainstreaming women and youth.



Industry, SE4ALL and SDGs



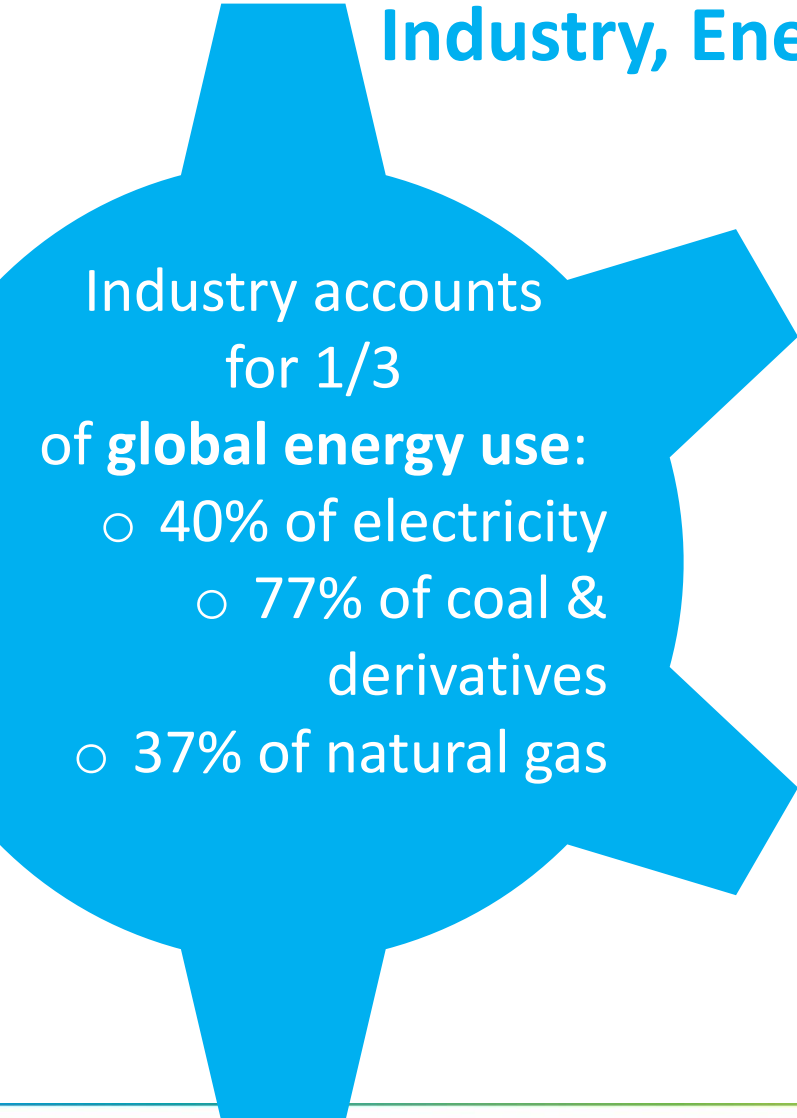
SDG 9
ISID

SDG 7
Sustainable
Energy

SDG 13
Climate
Action

- Jobs Creation
- Business Models
- Women's Empowerment
- Nexus Co-benefits
- Promoting innovation
- Sustainable Energy and Climate Agreement

Industry, Energy and Climate Change

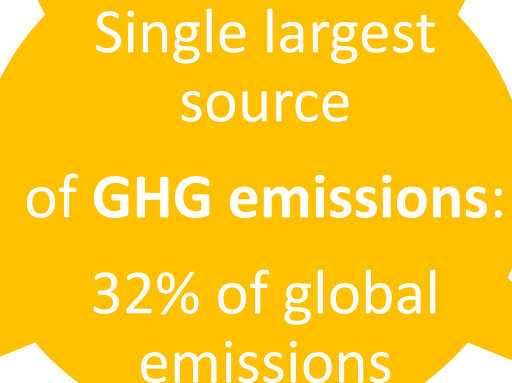


Industry accounts
for 1/3
of global energy use:

- 40% of electricity
- 77% of coal & derivatives
- 37% of natural gas

Global Primary Energy Demand by 2030:

- 50% increase expected
- 87% from non-OECD countries (industry biggest user)



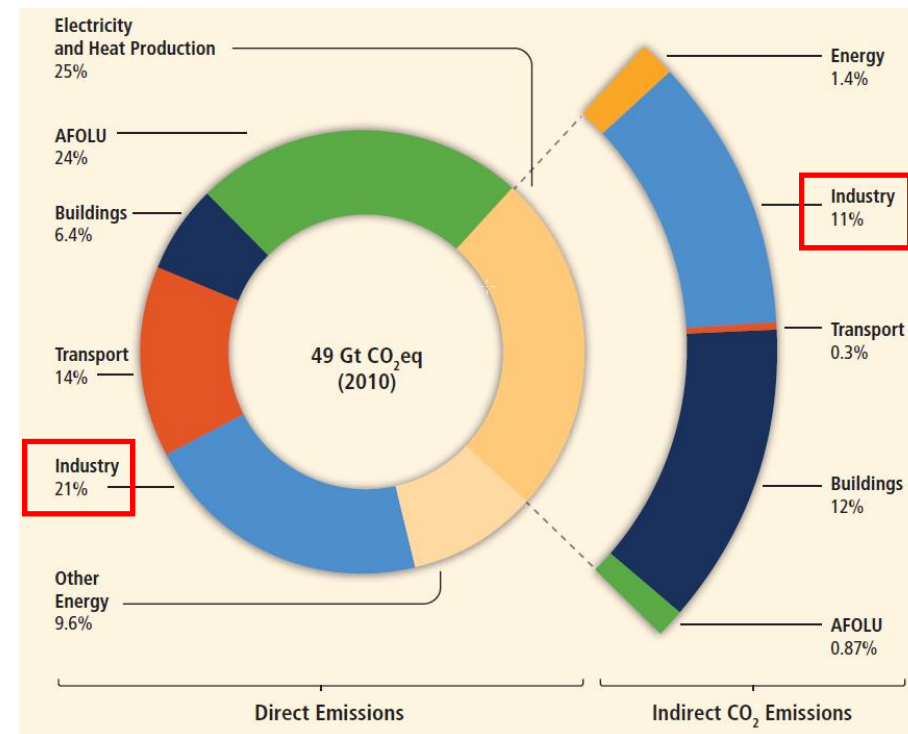
Single largest
source
of GHG emissions:
32% of global
emissions

Source: IEA, Technology Transitions for Industry, 2009

Industry, Energy and Carbon Footprint

- ✓ Industry is responsible for 40% of global final energy consumption (IEA, 2015)
- ✓ Industry is the single largest source of GHG emissions, accounting for about 32% of global emissions
- ✓ Over last two decades industry emissions have largely grown in Lower and Upper Mid Income Countries

Greenhouse Gas Emissions by Economic Sectors

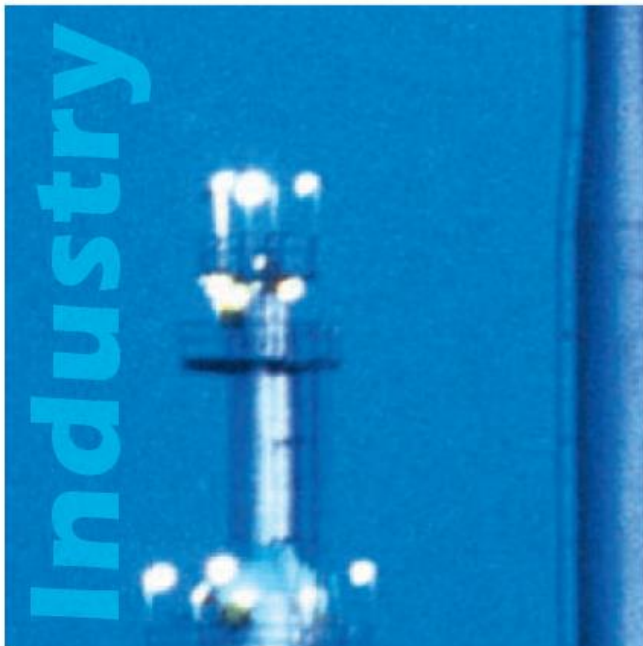


Source: IPCC Working Group III – Mitigation of CC, 2014

Industrial Energy Efficiency – What can we do?

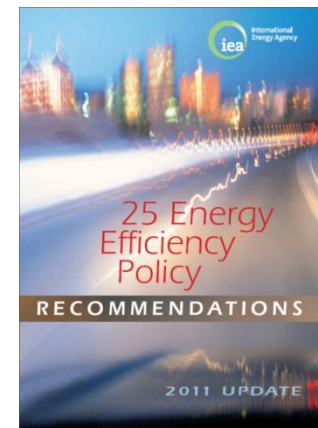
Different Barriers and Goals require Different Measures!

IEA Energy Efficiency Policy Recommendations



Industry

- 21** | Energy management
- 22** | High-efficiency industrial equipment and systems
- 23** | Energy efficiency services for SMEs
- 24** | Complementary policies to support industrial energy efficiency

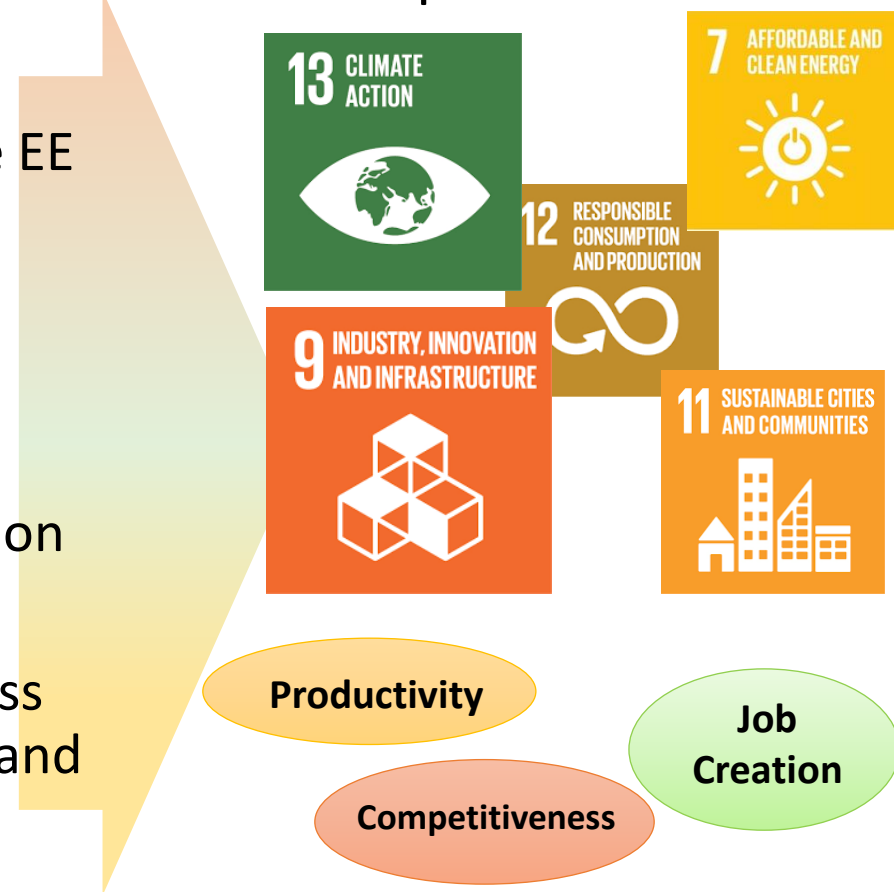


Source: IEA 2011

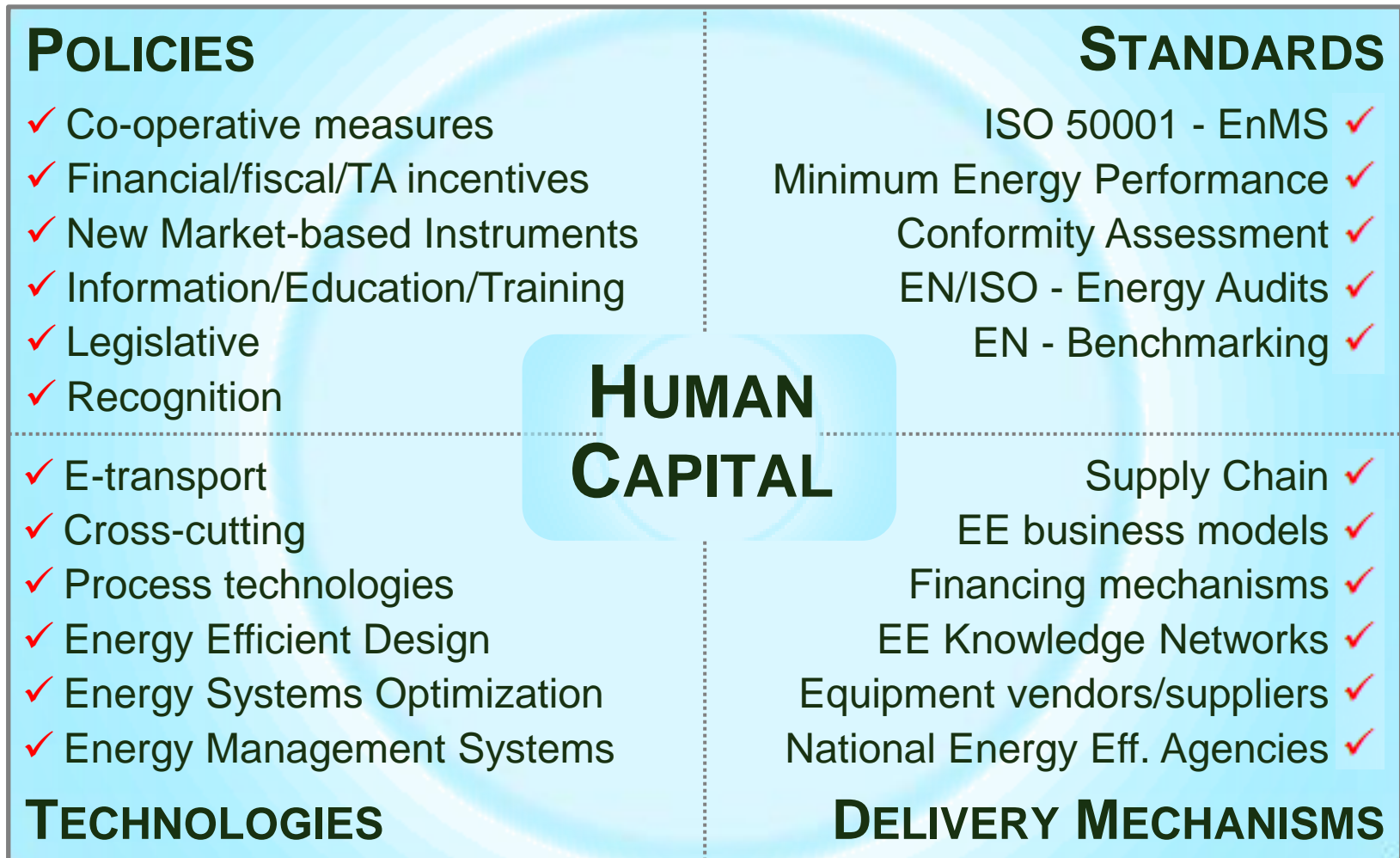
Objectives of the UNIDO IEE Programme

Work together with counterparts, stakeholders and partners to:

- **Strengthen policy** and regulatory frameworks for better & sustainable EE performance in industry
- **Accelerate adoption** and wide dissemination of IEE best-available practices and technologies
- **Save energy** and reduce GHG emission of the industrial sector
- **Integrate EE** in industry daily business practices for increased productivity and competitiveness



UNIDO IEE Programme – Thematic Areas

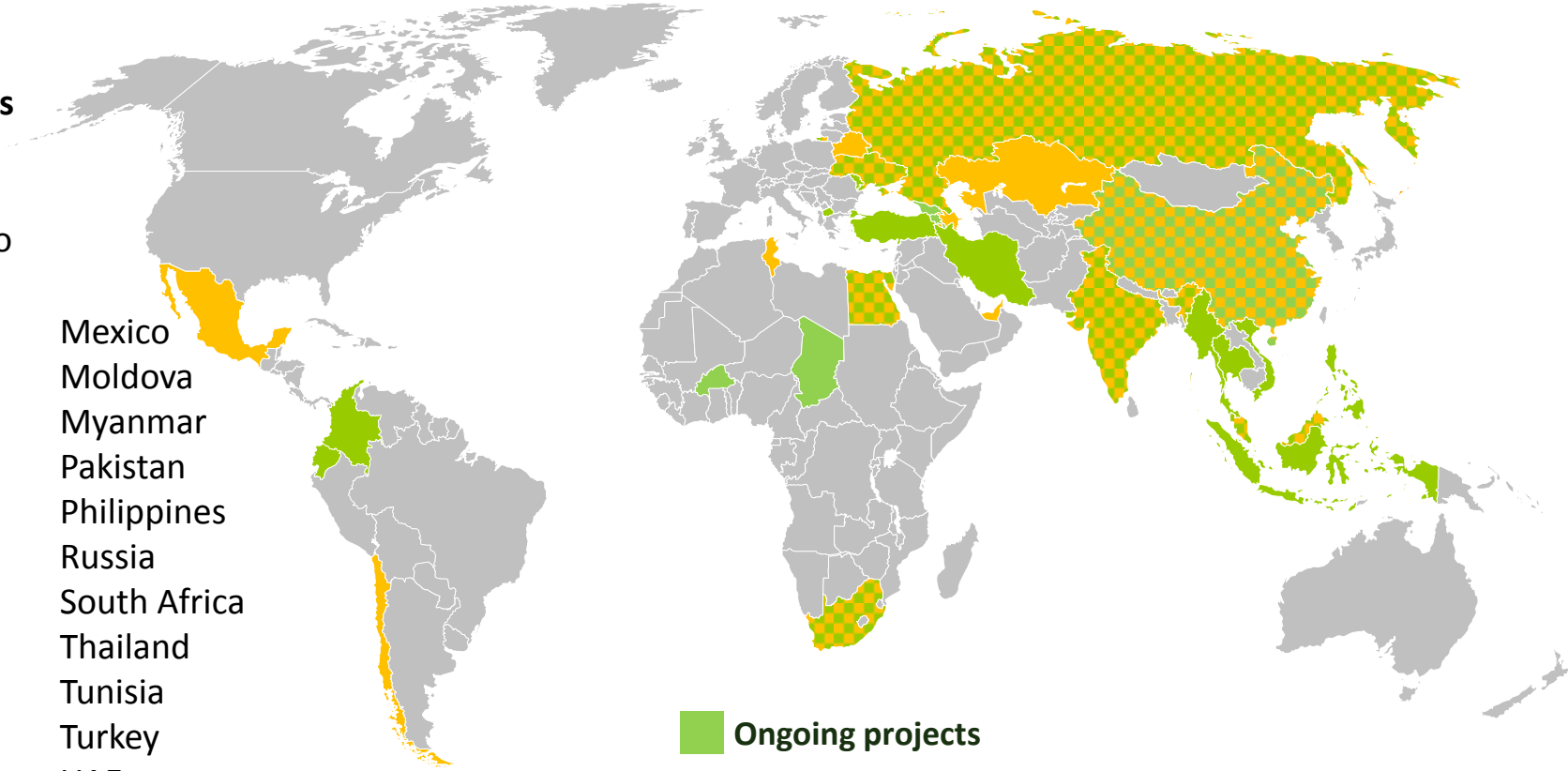


UNIDO Industrial Energy Efficiency Portfolio

As of May 2016

30 Countries

- Armenia
- Belarus
- Burkina Faso
- Chad
- Chile
- China
- Colombia
- Ecuador
- Egypt
- Georgia
- Kazakhstan
- India
- Indonesia
- Iran
- Macedonia
- Malaysia
- Maldives
- Mexico
- Moldova
- Myanmar
- Pakistan
- Philippines
- Russia
- South Africa
- Thailand
- Tunisia
- Turkey
- UAE
- Ukraine
- Viet Nam



Ongoing projects
 Planned activities

Summary of Achievements (9 countries)

- **303** UNIDO Qualified EnMS Experts
- **271** Enterprises with EnMS implemented
- **5,183** energy efficiency practitioners and enterprise personnel received training in EnMS
- Average annual energy savings of **7mil** MWh
- Annual CO2 emission reductions of **4 mil** tCO2
- Annual savings of **\$132 mil** without considering non-energy benefits

NOTE: Please do not quote these numbers because analysis has not been completed yet

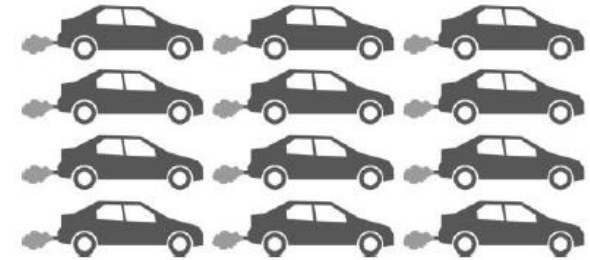
How much energy is 7,000 GWh?



Annual energy consumption of 1,150,000 EU households



Annual energy production of 2,000 MW of installed wind power

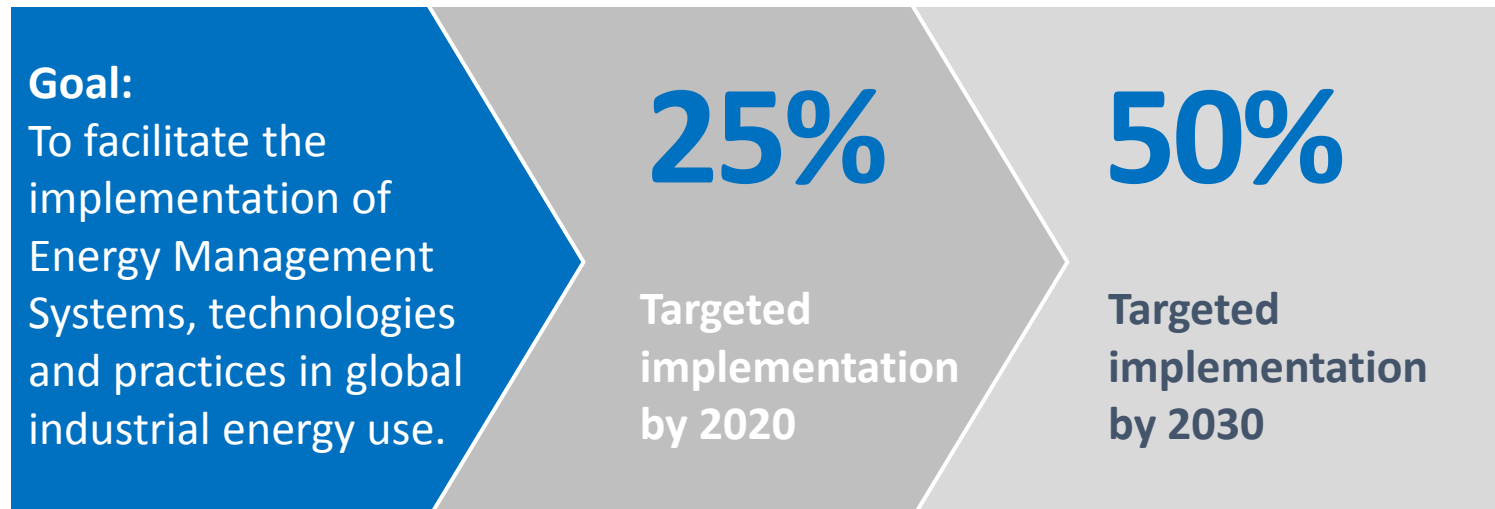


CO2 emissions of 1,750,000 middle class cars (running 12,500 km per year)

- Annual cost savings of **USD 80mil** without considering non-energy benefits
- Annual CO2 emission reductions of **4.3 million tCO2**

SE4ALL: Industrial Energy Efficiency Accelerator

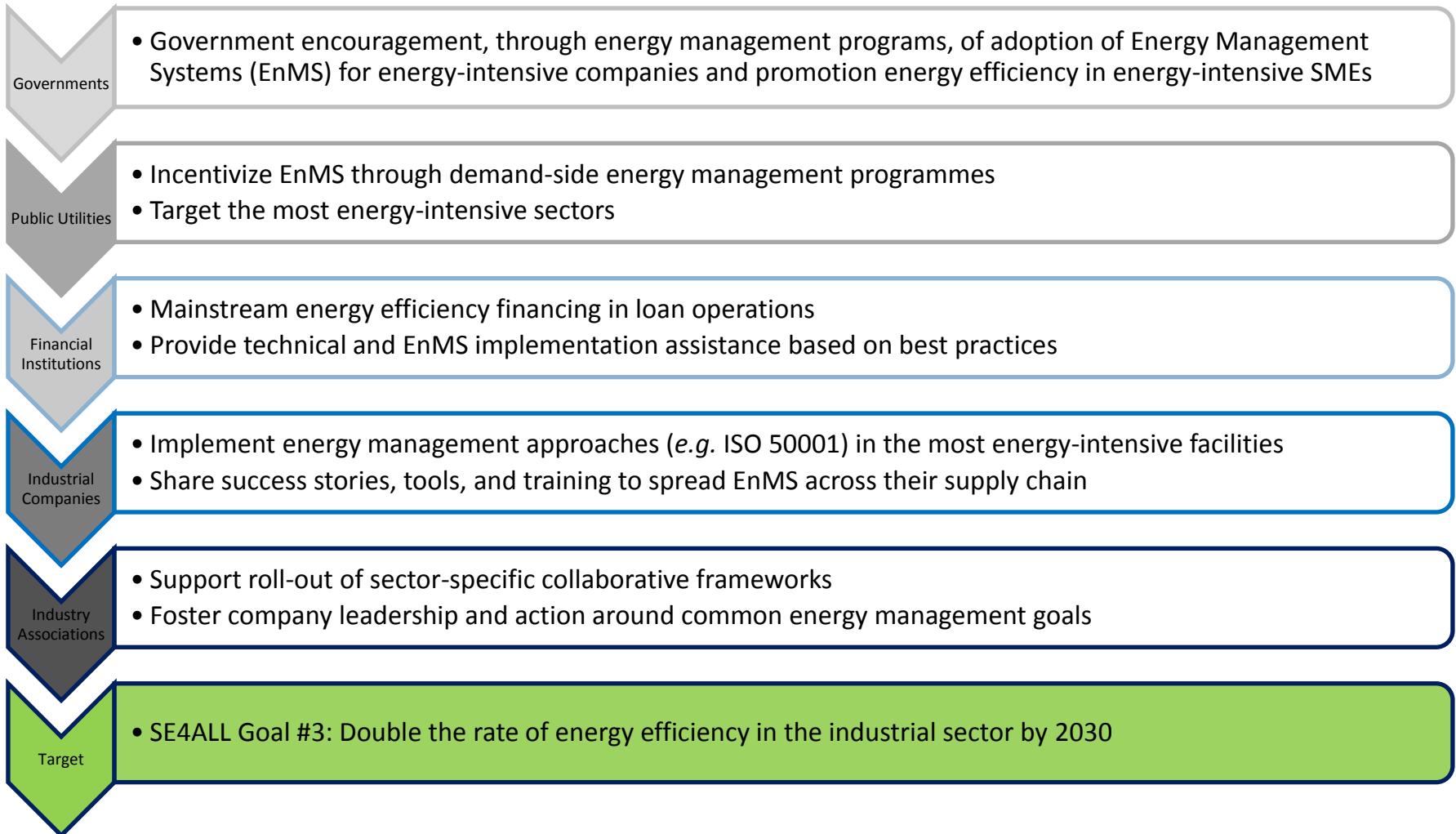
The IEE Accelerator is a global collaborative platform and network of businesses, international organizations and NGOs that will provide tools, expertise, technical capabilities and financial capacity to partners to contribute and make commitments for accelerating the improvement rate of energy efficiency in Industry.



SE4ALL: Industrial Energy Efficiency Accelerator Structure and Building Blocks



IEE Accelerator: Differentiated Responsibilities



Principal Offerings of the Industry EE Accelerator:

Support for development and formulation of EE policies

- **Integrated policy and investment roadmap that provides innovative tools and instruments to promote successful policies under local circumstances at regional, national, and subnational levels**

Capacity building for adoption of EnMS

- **Training of public and private officials via “train the trainer” approaches, and on-the-ground region and sector-specific pilots**

Financing solutions for the development and implementation of Accelerator goals

- **Financial institutions mainstream EE financing into standard loan operations, coupled with technical and EnMS implementation assistance**

Knowledge-sharing and information dissemination

- **Platform for knowledge exchange for best practices in policy design and implementation, fostering south-south collaboration to address information barriers**

Thank you for your attention

For more information:

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