

Energy Efficiency Training Week Indicators and Evaluation

Session 8: Developing monitoring and evaluation plans

Charles Michaelis and Mafalda Silva Bangkok 3 April 2019

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- Working in groups
- Things to consider:
 - What policy will you monitor and evaluate
 - What is the purpose of the evaluation
 - Who will use the results, what will they use them for
 - What is the policy theory of change
 - What else might have an effect on the outputs, outcomes and impacts?
 - What evaluation questions will help you to understand progress and impacts?
 - What indicators are needed?
 - What are the data sources /Where will the evidence come from?
 - What challenges you expect?
 - What will you do next?
- Prepare a 10 minute presentation

Groups reporting





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Session 10: Review and close

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www.betterevaluation.org

https://www.gov.uk/government/publications/the-magenta-book

www.energy-evaluation.org

2nd Energy Evaluation Asia Pacific Conference 30–31 October 2019 Amari Watergate Hotel Bangkok, Thailand

Conference topics include:

Evaluating energy policies and programs for the energy transition

- Assessing energy efficiency technologies and practices
- Monitoring Nationally Determined Contributions (NDCs)
- Measuring progress towards Sustainable Development Goals
 - Evaluating renewable energy potential and results
 - Evaluating non-energy impacts (multiple benefits)

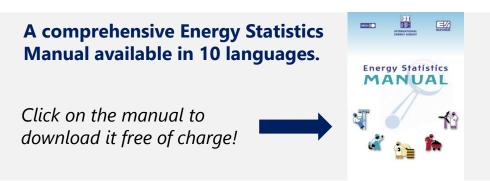
Who should attend?

• Energy evaluators • Policy makers • Program managers • Academics • Energy professionals



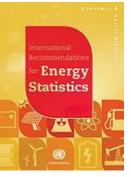
For more information and to register your interest visit www.energy-evaluation.org

The IEA produced a comprehensive Energy Statistics Manual covering most of our data collection methodologies, consistently with the IRES framework.



Visit the **IEA's Statistics website** to access additional resources, including our questionnaires, glossary and documentation related to our data collection methodologies.

To learn more about the international framework for energy statistics, please refer to the United Nations' International Recommendations for Energy Statistics (IRES).





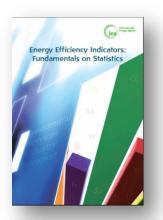


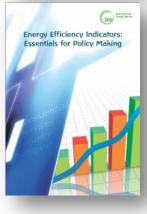
➤ Fundamentals on statistics:

to provide guidance on how to collect the data needed for indicators

- Includes a compilation of existing practices from across the world
- https://goo.gl/Y8QD1G

- > Essentials for policy makers:
 - to provide guidance to develop and interpret energy efficiency indicators
 - https://goo.gl/agcNg2





IEA e-learning courses: capacity building on energy efficiency data 🔌 🧟

Energy Efficiency Indicators: Fundamentals on Statistics







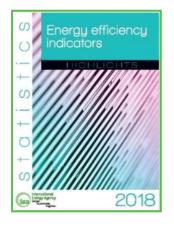
Energy Efficiency Indicators: Essentials for Policy Making

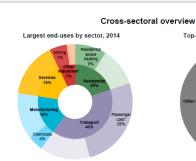
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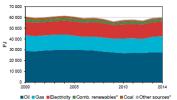
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Energy Efficiency Indicators Highlights

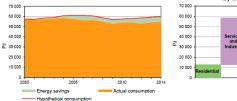








Estimated energy savings from efficiency***





2010

---- Activity

Top-6 CO, emitting end-uses, 2014**

Drivers of final energy consumption***

ther end-uses

115%

110%

105%

100%

959

90%

85%

2000

Passeng cars* 23%

Freight road 9%

2014



2005

Energy

Structur

Residential sector

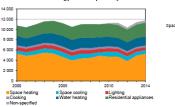
	Residential consumption (PJ)	Share of fossil fuels* in space heating (%)	Population (million)	Consumption per capita (GJ/pers)	Average dwelling surface (m ^a)	Average dwelling occupancy (pers/dw)
2000	10 772	84	282	38	196	2.8
2014	11 792	79	319	37	181	2.8

Refrigerators

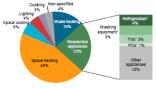
Dish washers

Residential energy consumption by end-use

2

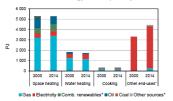


Residential energy consumption by end-use, 2014

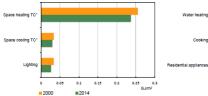


Residential energy consumption by source

Appliances per dwelling, 2000-14 % change

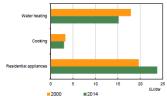


Energy Intensities by end-use per floor area



Clothes washers Clothes drivers TVS PCs" 0% 25% 50% 75% 100% 125%

Energy intensities by end-use per dwelling



*Other industries includes agriculture, mining and construction; passenger cars includes cars, sport utility vehicles and personal trucks; other end-uses includes the remaining part of emissions beyond the top-0; comb. renewables includes combustible renewables and wastes; other sources includes heat and other energy sources.

https://webstore.iea.org/energy-efficiency-indicators-2018-highlights

Review



- What have you learned?
- Did you get what you wanted?
- Will you use it in your work?
- Any suggestions for future courses?







WWW.iea.org