



Energy Efficiency Training Week

Indicators and Evaluation

Session 9: Developing monitoring and evaluation plans

Charles Michaelis and Mafalda Silva

Paris 23 May 2019

 IEA #energyefficientworld

- 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 to report back to the group



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Session 10: Review and close

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Useful evaluation resources

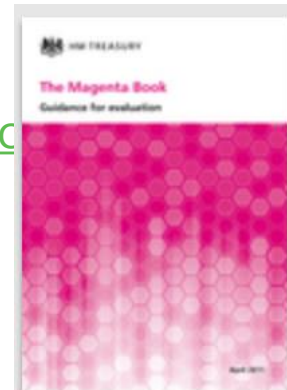
www.betterevaluation.org



BetterEvaluation

Sharing information to improve evaluation

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



www.energy-evaluation.org



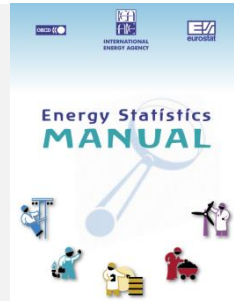
Energy Evaluation - Asia Pacific

**ENERGY
EVALUATION
ASIA PACIFIC**

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

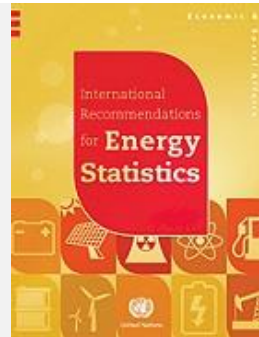
A comprehensive Energy Statistics Manual available in 10 languages.

Click on the manual to download it free of charge!



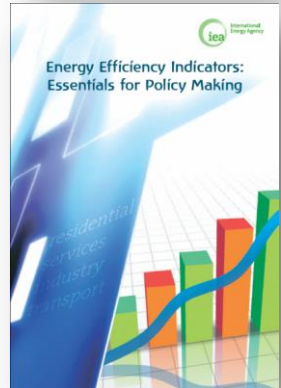
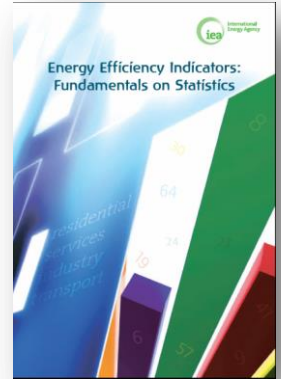
Visit the **IEA's Statistics website** to access additional resources, including our questionnaires, glossary and documentation related to our data collection methodologies.

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>



- **Energy Efficiency Indicators: Fundamentals on Statistics**

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Energy Efficiency Indicators: Fundamentals on Statistics

INTERNATIONALENERGYAGENCY

ENROLL IN FS1

The banner features a dark blue background with various light bulbs. A central white box contains the course title and a green 'ENROLL IN FS1' button. To the right of the text is a small image of a glowing light bulb with colorful lines radiating from it.



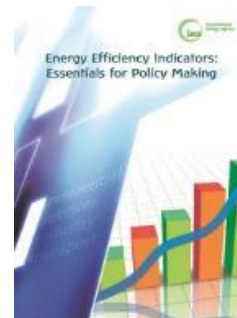
- **Energy Efficiency Indicators: Essentials for Policy Making**

Energy Efficiency Indicators: Essentials for Policy Making

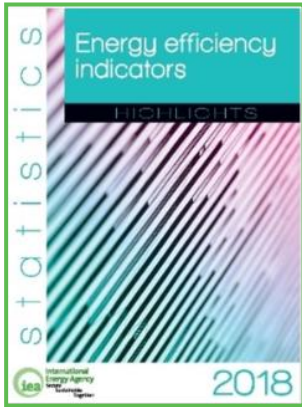
INTERNATIONALENERGYAGENCY

ENROLL IN EPM1

The banner features a dark blue background with various light bulbs. A central white box contains the course title and a green 'ENROLL IN EPM1' button. To the right of the text is a small image of a glowing globe with blue lines connecting different points.

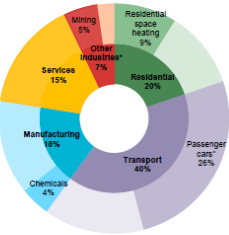


Energy Efficiency Indicators Highlights

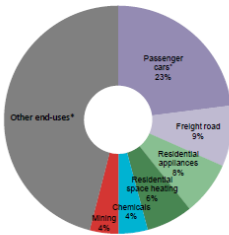


Cross-sectoral overview

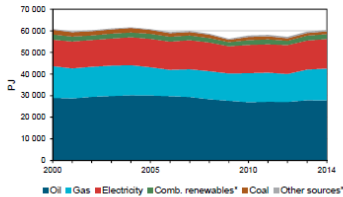
Largest end-uses by sector, 2014



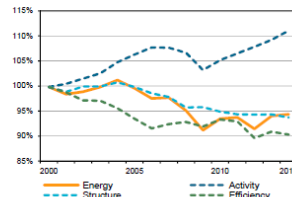
Top-6 CO₂ emitting end-uses, 2014**



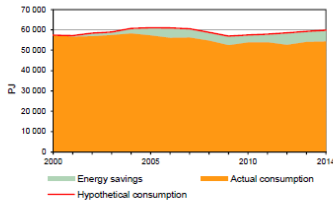
Final energy consumption by source



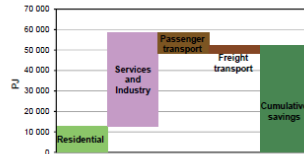
Drivers of final energy consumption***



Estimated energy savings from efficiency***



Estimated cumulative energy savings by sector, 2000-14***

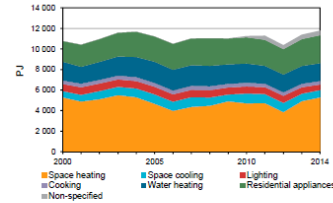


*Other industries includes agriculture, mining and construction; passenger cars includes cars, sport utility vehicles and personal trucks; other end-uses includes the remaining part of emissions beyond the top-6; comb. renewables includes combustible renewables and wastes; other sources includes heat and other energy sources.

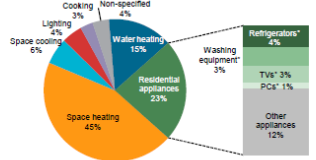
Residential sector

	Residential consumption (PJ)	Share of fossil fuels* in space heating (%)	Population (million)	Consumption per capita (GJ/pers)	Average dwelling surface (m ²)	Average dwelling occupancy (perside)
2000	10 772	94	282	38	190	2.8
2014	11 762	79	319	37	181	2.8

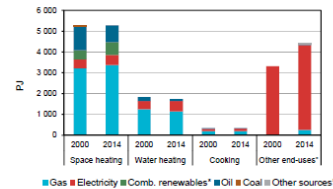
Residential energy consumption by end-use



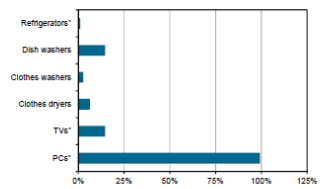
Residential energy consumption by end-use, 2014



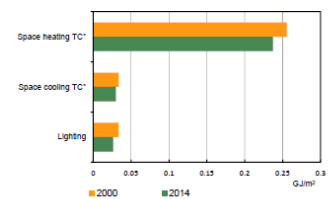
Residential energy consumption by source



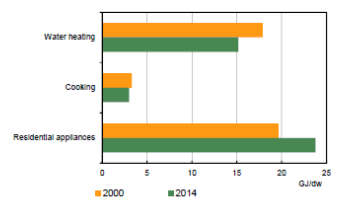
Appliances per dwelling, 2000-14 % change



Energy Intensities by end-use per floor area



Energy intensities by end-use per dwelling



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

- 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



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