

The IEA experience sharing good practices

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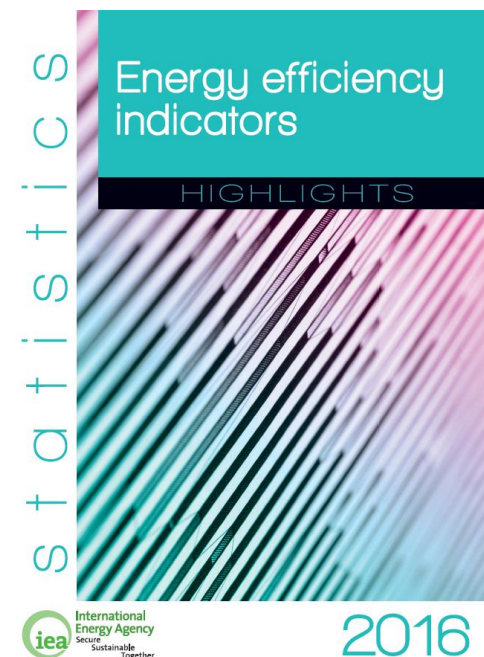
IEA, Energy Data Centre

*G20 Energy End-Use Data and Energy Efficiency Metrics initiative
12 December 2016, Paris*

The IEA energy efficiency data collection

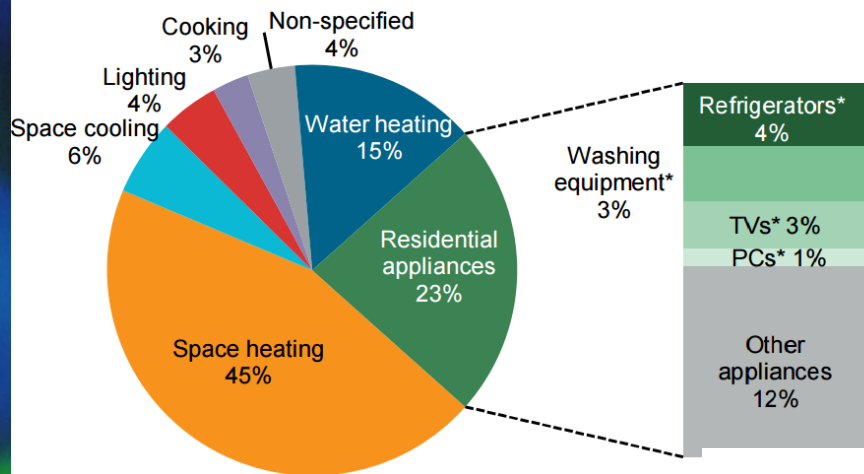
- Agreed by member countries in 2009 (IEA Ministerial)
- Developed with international community of experts, based on historical work on indicators (Odyssee, LBNL, etc.)
- A user-friendly Excel template (available online)
- Collects end-use energy and activity data
- Covers four sectors: residential, services, industry, transport

Draft Energy Efficiency Indicators Template country name	
COUNTRY DATA SECTION (to be reviewed and updated)	
MACRO ECONOMIC DATA	Macro economic and activity data
COMMODITIES	Production outputs from selected energy-consuming industries
INDUSTRY	Energy consumption by ISIC categories
SERVICES	Energy consumption by end-uses in the services sector
RESIDENTIAL	Household energy consumption by end-uses and selected appliances data
TRANSPORT	Energy and activity data for passenger and freight transport
IEA DATA and AGGREGATE INDICATORS	
ELECTRICITY GENERATION	Electricity generation from combustible fuels and efficiencies
BASIC INDICATORS	Predetermined set of aggregate energy and activity indicators
SUPPORT TOOLS	
USER REMARKS	To incorporate comments associated to the data from the individual sheets
DATA COVERAGE	Generates a graphical summary of data coverage (completed vs. expected)
SINGLE INDICATOR GRAPHS	To generate a graph for one energy indicator
MULTIPLE INDICATORS GRAPHS	To generate a graph comparing trends from multiple indicators
CONSISTENCY CHECKS	To run the integrated consistency checks

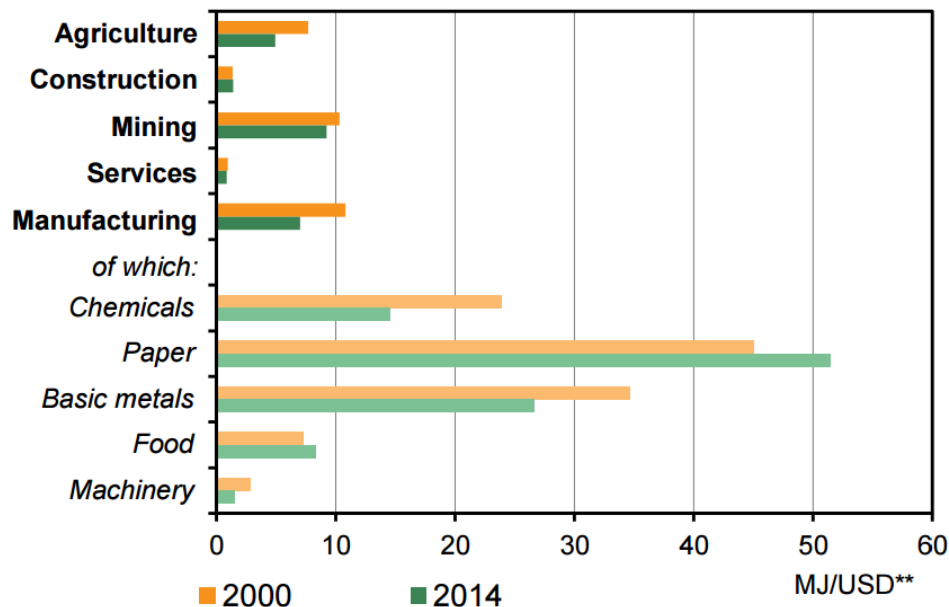


IEA energy efficiency data release

Residential energy consumption by end-use, 2014

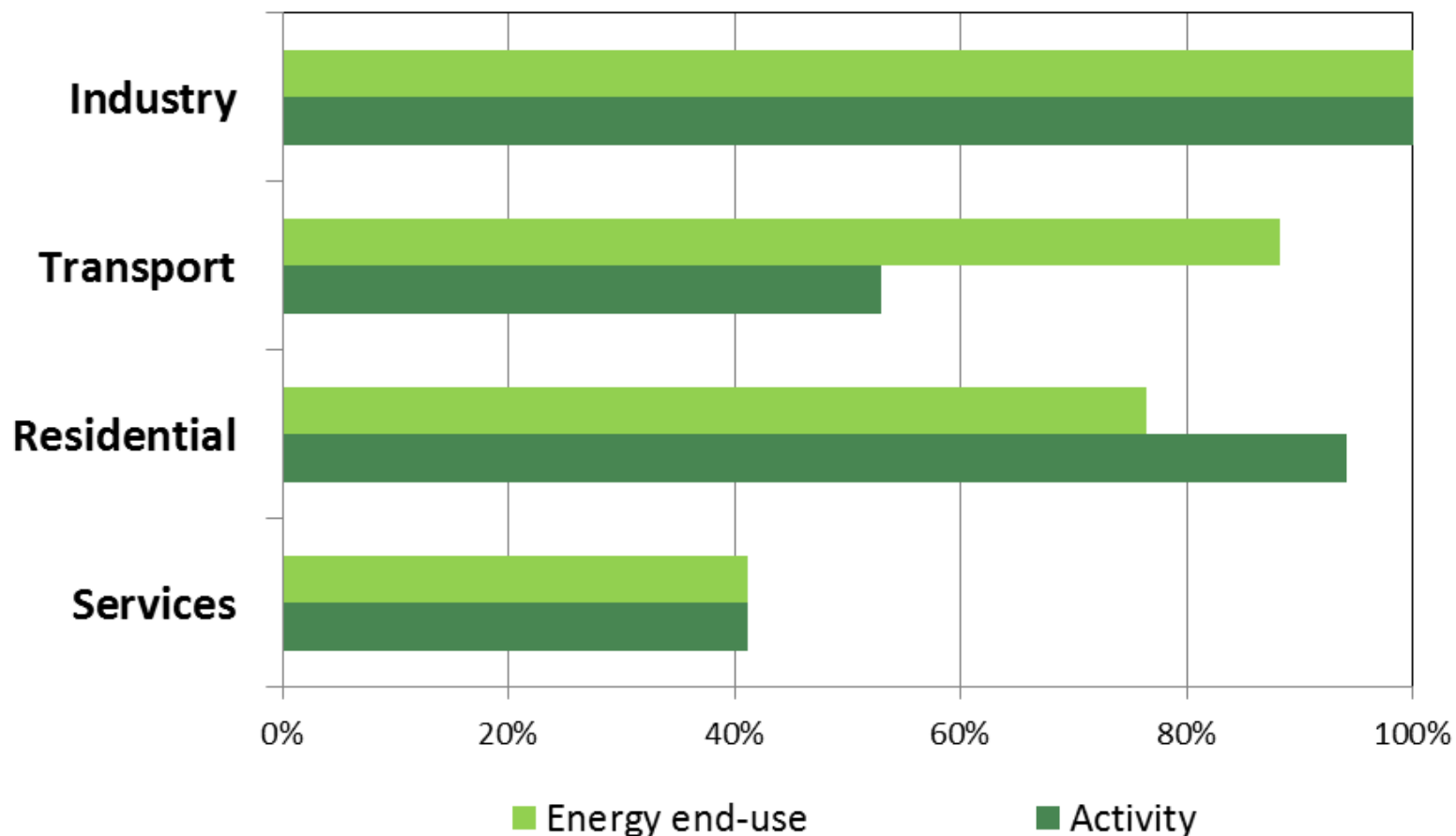


Selected energy intensities



Data assessment (2015-2016 cycle)

Good/Fair data completeness - energy and activity



Challenges faced by countries

- **Cooperation across institutions**
- **Need for new surveys or estimations**
- **Ensuring quality and consistency**
 - **with official energy statistics**
 - **between energy and activity data**
- **Delivering timely data**

IEA work to improve end-use data

Assessing data quality

Trainings and Webinars

Efficiency indicators manuals

Practices databases online

Training, webinars, workshops

- 2 annual statistics training events
- Policy/technical events (e.g. IEA E4 etc.)
- Webinars (e.g. Mexico, etc.)
- Regional events in cooperation with partners (AFREC, UNSD, APEC, etc.)

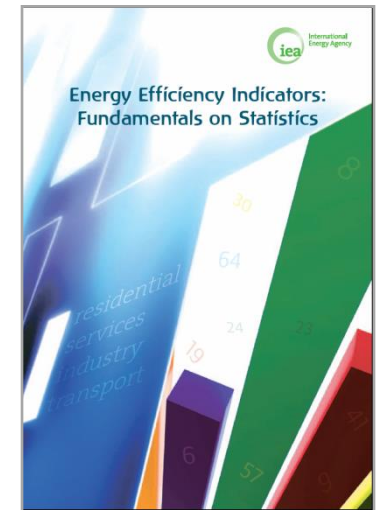


The energy efficiency indicators manuals

- **Fundamentals on statistics:**

How to collect the EE indicators data ?
plus a compilation of existing practices

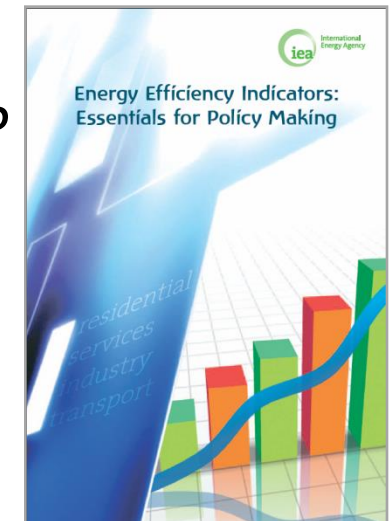
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- **Essentials for policy makers:**

How to develop and interpret EE indicators?

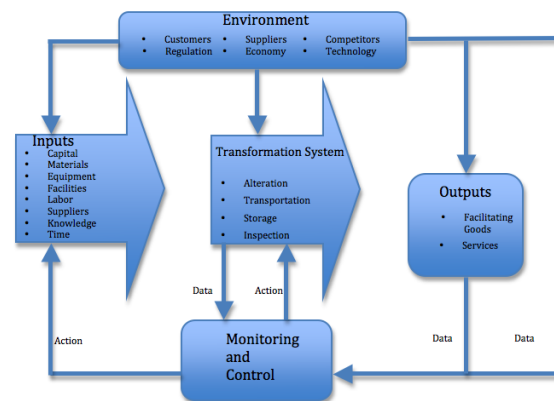
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**Free download on the IEA website
also in Spanish, Russian and Chinese**

Manual: how to collect data

- Administrative sources
- Surveys
- Metering and measuring
- Modelling

Country practices database

- Practices across sectors:
 - surveying, administrative sources, modelling/metering
- Questionnaires and other documents available
- Links to various national administrations work

Sector

☐ Industry

☒ Residential

☐ Services

☐ Transport

Methodology

☐ Administrative sources

☐ Measuring

☐ Modelling

☒ Surveying

Available content

☐ methodology

☐ project web site

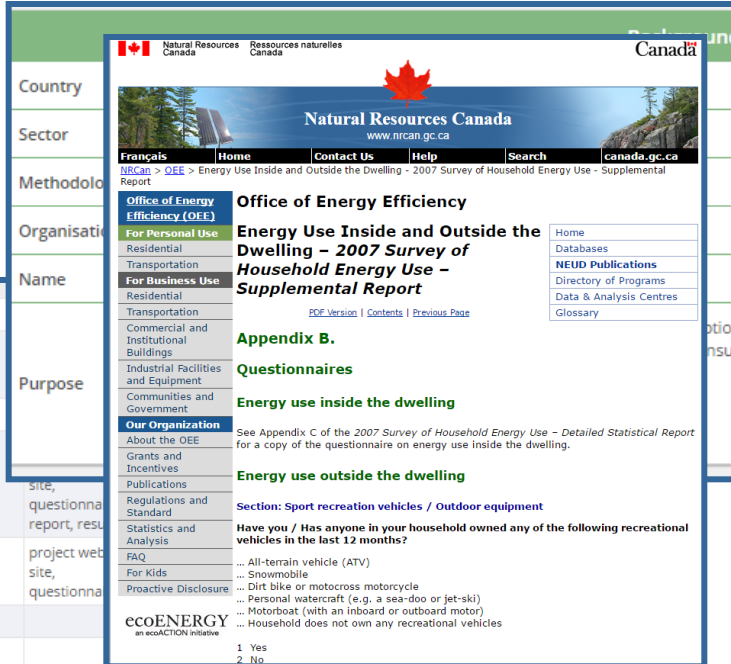
☐ questionnaire

☐ report

☐ results

R/Su/01	Albania		Residential	Surveying
R/Su/02	Austria		Residential	Surveying
R/Su/03	Belgium		Residential	Surveying
R/Su/04	Portugal, Belgium, Bulgaria, Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Norway, Romania		Residential	Surveying
R/Su/05	Canada		Residential	Surveying
R/Su/06	China		Residential	Surveying
R/Su/07	China		Residential	Surveying

<http://www.iea.org/eeindicatorsmanual/>



An example of how to benefit from each other's work



As end-use data are vital, cooperation activities could cover:

- Sharing good practices
- Developing an international energy efficiency data collection system
- Delivering targeted trainings
- Others ...