

The IEA experience sharing good practices

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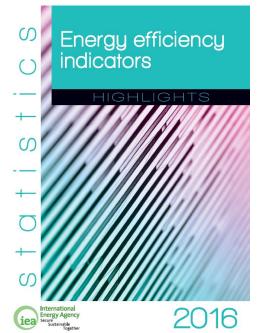
G20 Energy End-Use Data and Energy Efficiency Metrics initiative 12 December 2016, Paris



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

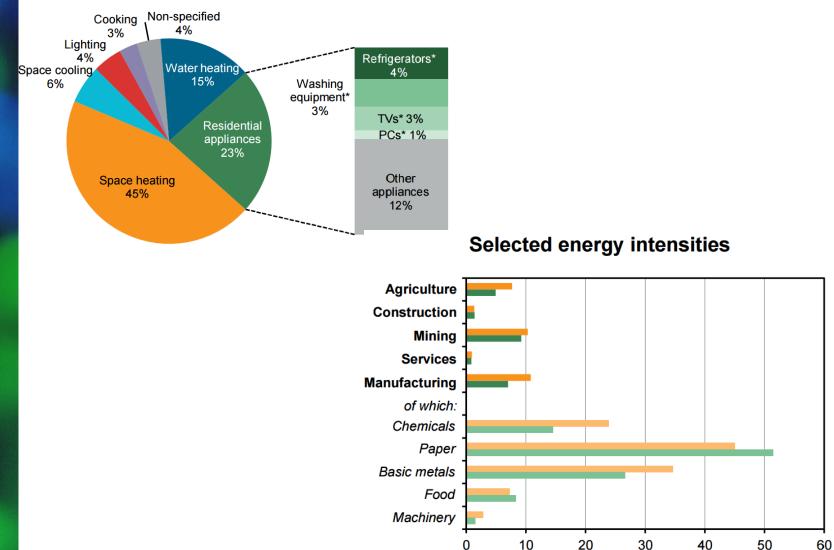
Jeans 1974. Do	Draft Energy Efficiency Indicators Template country name
	CTION (to be reviewed and updated)
MACRO ECONOMIC DATA	
COMMODITIES	Production outputs from selected energy-consuming industries
INDUSTRY	Energy consumption by ISIC categories
SERVICES	Energy consumption by end-uses in the services 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 AGGR	EGATE INDICATORS
ELECTRICITY GENERATIO	N 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 GRAP	HS To generate a graph for one energy indicator
MULTIPLE INDICATORS G	RAPHS 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



2000

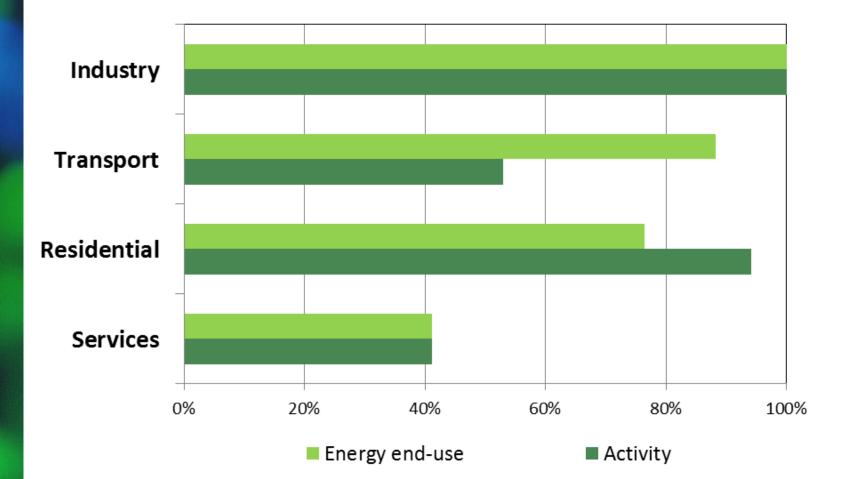
■2014

MJ/USD**



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

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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.)

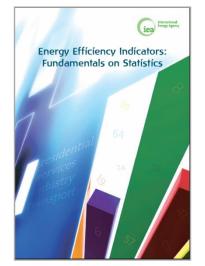


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The energy efficiency indicators manuals

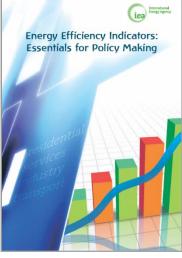
Fundamentals on statistics:

How to collect the EE indicators data ? plus a compilation of existing practices http://bit.ly/1RUqUkb



 Essentials for policy makers: How to develop and interpret EE indicators? http://bit.ly/1stibAN

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



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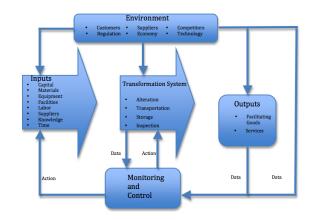
Manual: how to collect data

Administrative sources

Surveys

Metering and measuring

Modelling





DAA.



Country practices database

- Practices across sectors:
 - surveying, administrative sources, modelling/metering
- Questionnaires and other documents available

Links to various national administrations work

Sector	Methodology	Avai	ilable content			Country	Natural Resources Canada	Ressources naturelles Canada	Canadă	und	
Industry Administrative		methodology				Sector		Natural Resources Canada www.nrcan.gc.ca	F	—	
Residential Services	sources Measuring	q	 project web site questionnaire report results 				Report	h canada.gc.ca Energy Use - Supplemental	<u> </u>		
Transport	Modelling Surveying						Efficiency (OEE) For Personal Use	Office of Energy Efficiency Energy Use Inside and Outside the Owelling – <i>2007 Survey of</i>	Home Databases		
						Name	Transportation For Business Use Residential	Household Energy Use – Supplemental Report	NEUD Publications Directory of Programs Data & Analysis Centres		
			Albania 🔤		Surveying		Buildings	PDF Version Contents Previous Page	Glossary	otion nsumpti	
		R/Su/02		Residential	, ,	Purpose	and Equipment Communities and Government	Energy use inside the dwelling			
		2/5 /04	Portugal, Belgium, Bulgaria, Czech Republic, Denmark				Grants and Incentives	iee Appendix C of the 2007 Survey of Household Energy Us or a copy of the questionnaire on energy use inside the dw Energy use outside the dwelling	e - Detailed Statistical Report alling.		
		R/Su/04	France, Germany, Greece, Hungary, Italy, Norway, Romania	Residential Sur	Surveying	questionna report, resu	Statistics and H	iection: Sport recreation vehicles / Outdoor equipment lave you / Has anyone in your household owned any of ehicles in the last 12 months?			
		R/Su/05	Canada 🛀	Residential	Surveying	project web site, questionna	FAQ For Kids	All-terrain vehicle (ATV) Snowmobile Dirt bike or motocross motorcycle Personal watercraft (e.g. a sea-doo or jet-ski)			
		R/Su/06	China 🚾	Residential	Surveying		ecoENERGY	. Motorboat (with an Inboard or outboard motor) . Household does not own any recreational vehicles			
		R/Su/07	China 🚟	Residential	Surveying			. Yes No			
http://www.iea.org/eeindicatorsmanual/			T.		Surveying					-	
-			70	Residential	Surveying	report					
An example of how to benefit from each other's work											

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

Sharing good practices

Developing an international energy efficiency data collection system

Delivering targeted trainings



OECD/IEA 2016