



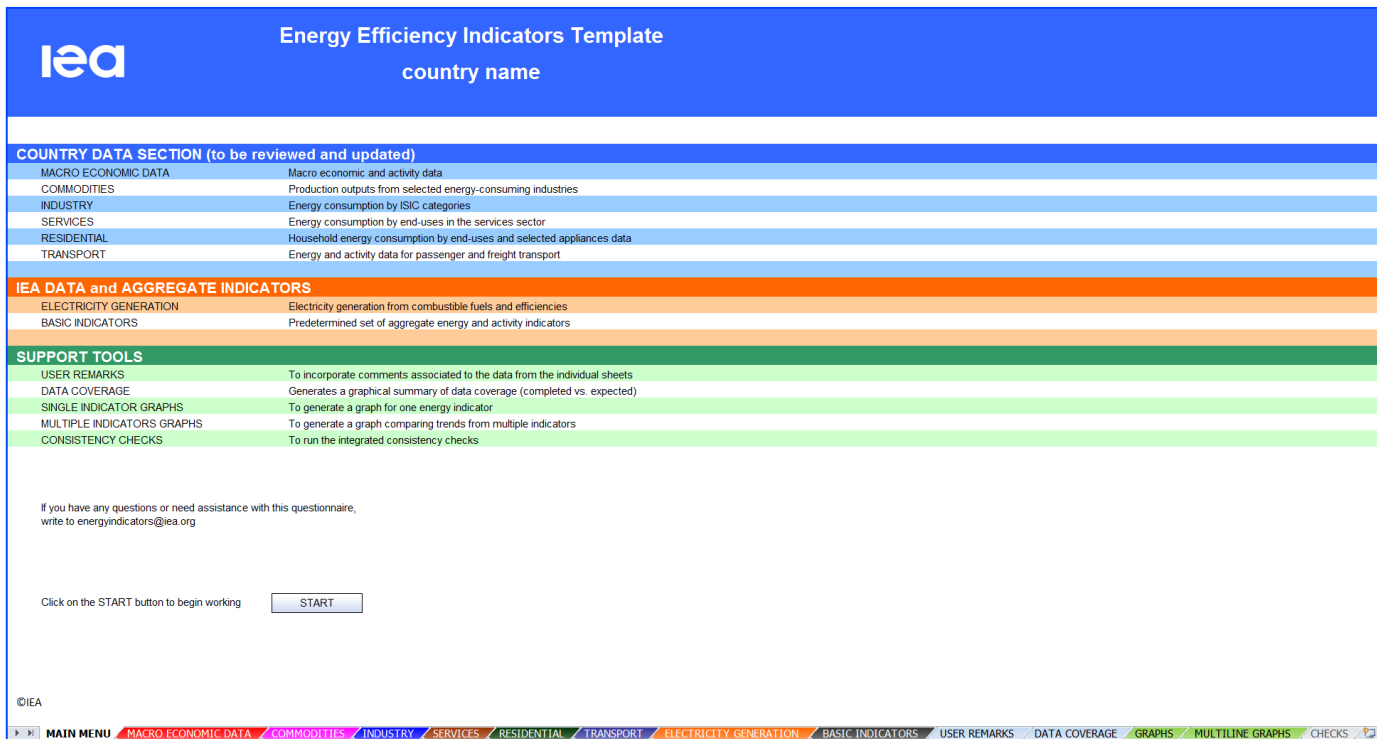
Online tools to support country work

JunGyu PARK, Matthieu PRIN | International Energy Agency

Joint APEC-IEA Training Workshop on End-use Energy Consumption Data, June 30th 2021

Part I: available IEA tools

The IEA energy efficiency indicators template



The screenshot shows the IEA Energy Efficiency Indicators Template questionnaire interface. At the top, there is a blue header with the IEA logo on the left and the text "Energy Efficiency Indicators Template" and "country name" on the right. Below the header, the questionnaire is organized into several sections:

- COUNTRY DATA SECTION (to be reviewed and updated)**: This section includes a table with the following items:

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**: This section includes a table with the following items:

ELECTRICITY GENERATION	Electricity generation from combustible fuels and efficiencies
BASIC INDICATORS	Predetermined set of aggregate energy and activity indicators
- SUPPORT TOOLS**: This section includes a table with the following items:

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

Below the tables, there is a text box that says: "If you have any questions or need assistance with this questionnaire, write to energyindicators@iea.org".

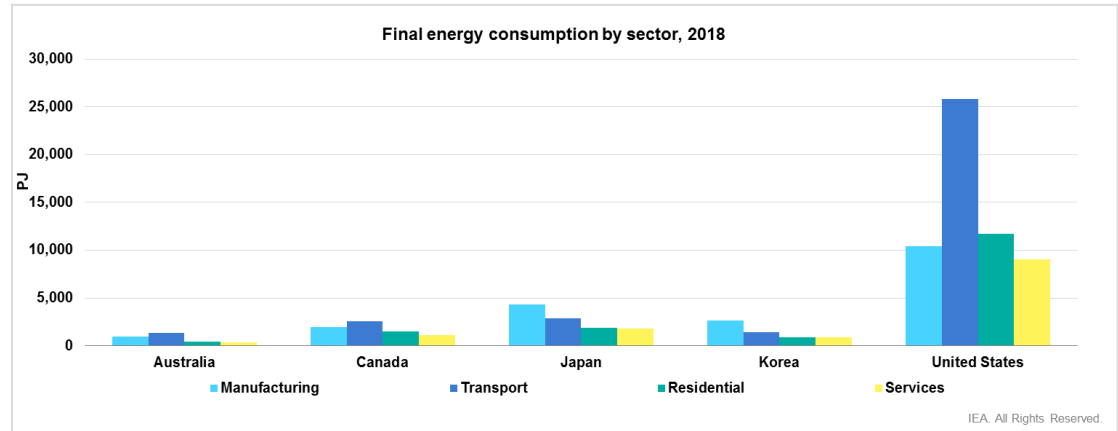
At the bottom of the main content area, there is a text box that says: "Click on the START button to begin working" next to a button labeled "START".

At the very bottom, there is a footer with the text "©IEA" and a navigation bar with the following items: MAIN MENU, MACRO ECONOMIC DATA, COMMODITIES, INDUSTRY, SERVICES, RESIDENTIAL, TRANSPORT, ELECTRICITY GENERATION, BASIC INDICATORS, USER REMARKS, DATA COVERAGE, GRAPHS, MULTILINE GRAPHS, CHECKS.

- Available at: <https://www.iea.org/areas-of-work/data-and-statistics/questionnaires>

The IEA energy efficiency indicators highlights

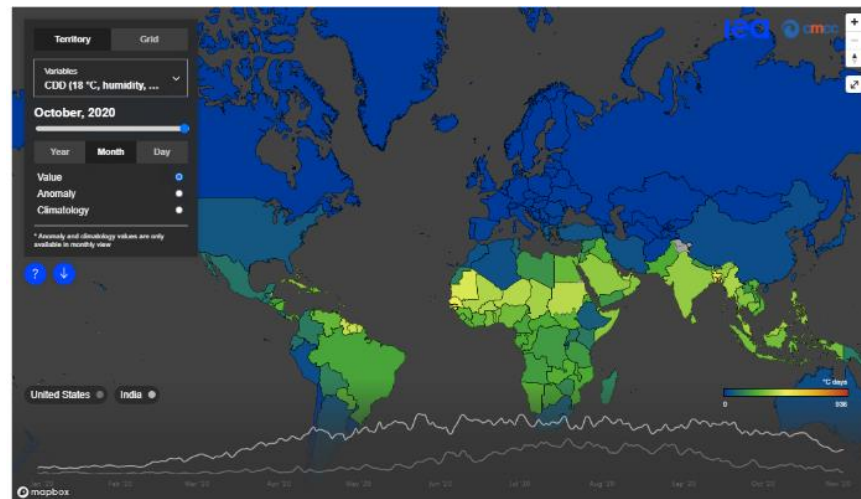
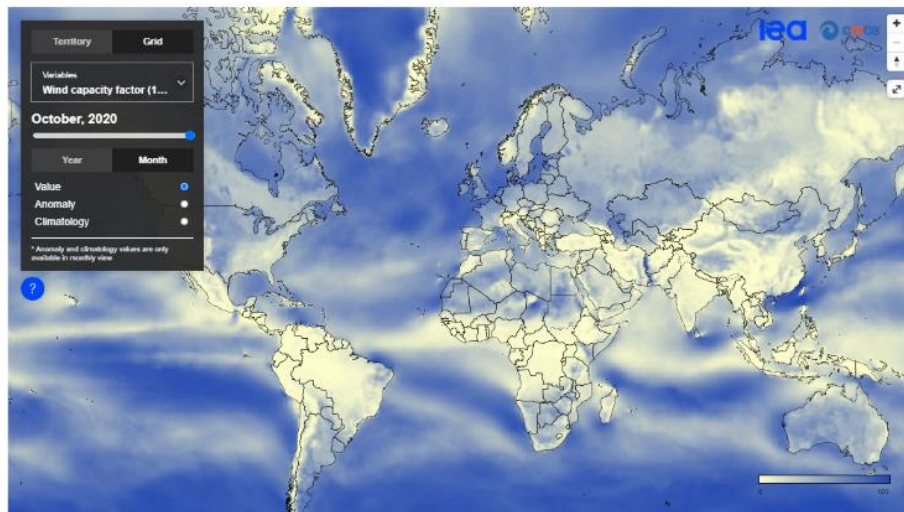
- Selection of data from the energy efficiency indicators database, displaying information in graphical and data formats.
- Available at: <https://www.iea.org/data-and-statistics/data-product/energy-efficiency-indicators-highlights>



Country	End use	Product	2000	2005	2010	2015	2016	2017	2018	2019
Australia	Total Residential	Total final energy (PJ)	378.37	396.52	428.77	438.93	443.46	440.95	440.95	443.18
Australia	Residential space heating	Total final energy (PJ)	167.28	160.99	159.63	162.72	163.29	161.61	160.06	160.25
Australia	Residential space cooling	Total final energy (PJ)	10.27	13.30	18.13	20.29	20.75	20.90	21.08	20.93
Australia	Residential lighting	Total final energy (PJ)	27.32	34.94	29.92	26.48	25.24	23.67	22.14	20.72
Australia	Residential appliances	Total final energy (PJ)	72.28	82.33	100.44	99.76	100.30	100.48	101.04	101.28

Weather for Energy Tracker Comprehensive weather data for energy modeling & analysis

- Collaboration with research institution (*CMCC*)
- Large portfolio of variables (*HDDs, CDDs, precipitation, wind...*)
- National and gridded data available in different formats
- Free data under creative commons license



This Weather for Energy Tracker and its database (the Tracker) is the result of a collaborative effort among the International Energy Agency (IEA) and the Fondazione Euro-Mediterraneo sui Cambiamenti Climatici (CMCC). The Tracker reflects the views of the IEA Secretariat and CMCC but does not necessarily reflect those of their respective individual Member countries. The Tracker does not constitute professional advice on any specific issue or situation. CMCC and the IEA make no representation or warranty, express or implied, in respect of the database (including its completeness or accuracy) and shall not be responsible for any use of or reliance on, the Tracker. Furthermore, neither the European Commission nor (CMCC) is responsible for any use that may be made of the Copernicus information or data contained in the Tracker. For further information, please contact: weather@iea.org.

- Available at: <https://www.iea.org/articles/weather-for-energy-tracker>

Energy Efficiency Indicators Statistics: Country Practices Database

A supplement to the publication [Energy Efficiency Indicators: Fundamentals on Statistics](#), this database presents practices on collection of data for developing efficiency indicators from a variety of OECD Members and non-Members.

Practices are searchable by country and territory, sector, methodology and type of available documentation. By sharing these experiences, we hope to help countries and organisations to develop their own energy efficiency indicators programmes.

Countries, territories and economies

- Albania
- Australia
- Austria
- Belarus
- Belgium
- Bosnia and Herzegovina
- Brazil
- Bulgaria
- Canada

Sector

- Industry
- Residential
- Services
- Transport

Methodology

- Administrative sources
- Measuring
- Modelling
- Surveying

Available content

- methodology
- project web site
- questionnaire
- report
- results

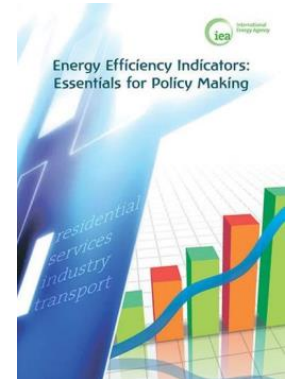
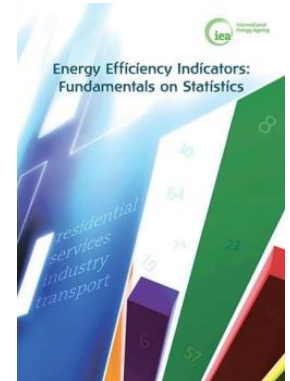
Search by keywords

- Available at: <https://delegates.iea.org/delegates/eeindicatorsmanual>
 - Country practices database presents practices on collection of data for developing efficiency indicators from a variety of OECD Members and non-Members.
 - Practices are searchable by country and territory, sector, methodology and type of available documentation.
 - By sharing these experiences, we hope to help countries and organisations to develop their own energy efficiency indicators programs.
 - Please contact energyindicators@iea.org if you are willing to provide practices to be added in the database.

- **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://www.iea.org/reports/energy-efficiency-indicators-fundamentals-on-statistics>
- **Essentials for policy makers:**
 - To provide guidance to develop and interpret indicators
 - <https://webstore.iea.org/energy-efficiency-indicators-essentials-for-policy-making>

Both available also in:

Spanish
Russian
Chinese
French (New!)



International guidelines are key to ensure comparability of data and indicators across countries

Part 2: focus on the online efficiency indicator e-learning platform

• <https://elearning.iaea.org/>



- Energy Efficiency Indicators: Fundamentals on Statistics
- Energy Efficiency Indicators: Essentials for Policy Making
- Energy Efficiency in Buildings
- Sustainable Energy Policies for Smart Cities



International Energy Agency

Energy Efficiency Indicators: Fundamentals on Statistics



International Energy Agency

Energy Efficiency Indicators: Essentials for Policy Making



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Sustainable Energy Policies for Smart Cities

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Energy Working Group

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