

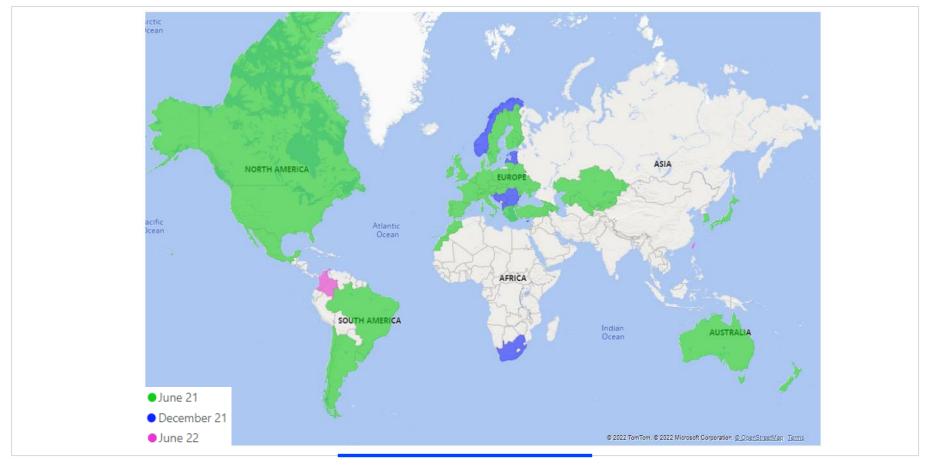
#### International collaboration to strengthen energy efficiency data capacity

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Joint APEC-IEA training workshop on end-use energy consumption data – Nov. 17<sup>th</sup> 2022

### **Energy efficiency indicators: a growing database**







## The role of international collaboration

#### The role of the international and regional activities



















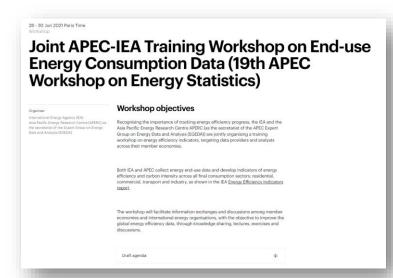
Gathering and estimating energy consumption by end-use at national level and developing efficiency indicators can be challenging. It requires the right resources at national level and the support of the international and regional entities is key.



# Some examples of relevant IEA initiatives

#### Joint APEC-IEA Training Workshop on End-use Energy Consumption data





First joint IEA-APEC workshop held in June 2021







Agenda for the second workshop to be held in November 2022

The objective of the workshops is to improve the collection of end-use and activity data, strengthening the capacity of economies to develop efficiency indicators

#### **G20** Energy Efficiency data initiative



The objective of the G20 work stream "energy end-use data and energy efficiency metrics" is to provide a forum for participating G20 countries to share knowledge and experience in collecting and analysing energy end-use demand and energy efficiency data including the strategies, approaches and methodologies that can lead to better metrics and ultimately improved decisions and more effective policies.

The initiative is co-led by the IEA and France through the French National Agency for Energy Management (ADEME).









G20 Energy Efficiency Leading Programme



Under the G20 Energy efficiency data initiative four workshops were organized. Currently, IEA and ADEME are planning the next collaboration under the G20 presidency of India

#### Eurostat work on the end-use disaggregation



Eurostat is active in the space and has been working on questionnaires for collecting disaggregated end-use consumption collecting data for **Residential** and **Transport** and currently rolling out **Industry** and **Services** will be added to the data collections.

Those data collections **help raise awareness on the topic** and are well aligned with the objectives of the already existing data collection in the space as the one of the IEA.

It is important to keep the methodologies comparable in order to have similar data across the world and to be able to create meaningful benchmarks.

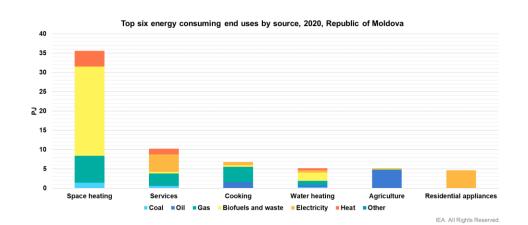


The work of regional bodies is key to enhance the data availability and quality. It is key to have comparable data collections to ensure that the burden on the NSOs is as low as possible and to have coherent analyses.

#### Eastern Europe and Caucasian countries – EU4Energy



EU4Energy is a collaboration between the **IEA**, the **European Union**, EU's Eastern Partnership and other implementing parties, designed to support the aspirations to implement sustainable energy policies and foster co-operative energy sector development at the regional level.











The Programme's aim is to improve energy data capabilities and enhance data collection and monitoring of the beneficiary countries. Currently, 7 countries are able to produce energy efficiency indicators at national level and report to the IEA. This is a good example of the importance of the international collaboration to build capacity and sustainable data collections.

### IEA Energy Efficiency in Emerging Economies (E4)



Brazil, China, India, Indonesia, Mexico and South Africa together consume one third of the world's energy – expected to rise to 40% under current policy directions.

The collaboration under the E4 umbrella falls into three main categories:

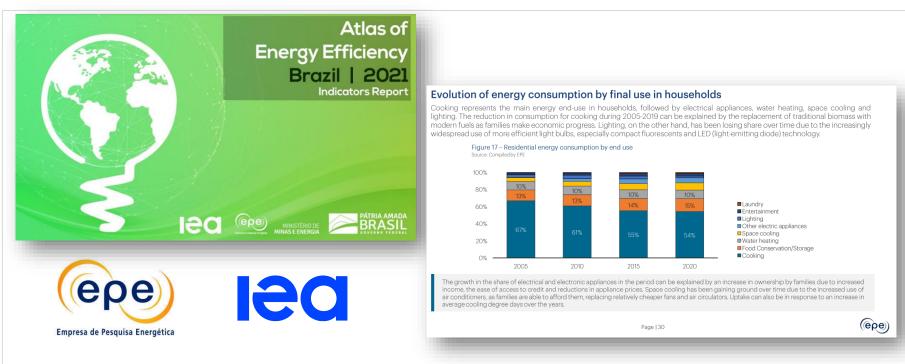
- Understanding the potential of energy efficiency to enable a secure, sustainable energy system
- Setting targets and tracking progress through energy efficiency indicators and policy evaluation for continuous improvement;
- Developing strategies and policy design to deliver energy efficient prosperity



Ad hoc webinars and targeted discussions with countries help their development of solid datasets. Were also organized bilateral meetings with other countries that have comparable challenges to share experiences (eg mining in Chile and South Africa)

#### Bilateral collaboration with Brazilian Energy Research office (EPE)





Also direct collaboration with focus economies can have an impact in supporting projects of energy efficiency data collection and ensure that a common international approach is applied.



# **Takeaways**

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- Energy Efficiency indicators are key to the energy transition to achieve carbon neutrality. We need to inform policies with relevant data.
- Some economies may struggle with gathering the relevant information needed, international cooperation can help them identify the right and less expensive path to have relevant indicators.
- International bodies can facilitate international knowledge sharing.

 International cooperation can create the right environment for an effective energy efficiency experts community

International cooperation is key to enhance the quality and comparability of energy efficiency indicators.

