







Third meeting of the BIEE-ROSE Project on Energy Efficiency and SDG7 monitoring in Latin America and the Caribbean Virtual conference July 7<sup>th</sup> 2021

# SDG 7 indicators in LACs: data collection and dissemination

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# Status of data collection



### Objective: updating and expansion of the BIEE data base

- A data base is useful for policy makers only if it is regularly updated → the first objective of this task was to provide data and indicators up to 2018.
- As the scope of the project is not only to monitor energy efficiency, but also the three dimensions of SDG7/OSD7, the previous BIEE indicators have been extended to include energy access and renewables → the list of indicators developed is available in Annex



# Data collection strategy

- As countries had different previous experiences with the BIEE project and to alleviate the work for national teams, the updating has been organized as follows.
- For countries that participated in the previous phases of the BIEE project and have continued to update the BIEE database: Argentina, Brazil, Mexico, Uruguay, (Republic Dominican, Guyana\*) → all data directly collected from national sources by national teams.
- For all the other countries:
  - Aggregate data collected from OLADE and CEPALSTAT by Enerdata;
  - Separate data collection for more disaggregated data necessary for the calculation of advanced energy efficiency indicators.

\*For Republic Dominican and Guyana, the update is still in progress



# Collection process of more detailed data

- For detailed data that are only available from national sources → we asked national teams to collect such data in a new simplified template.
- Such data include data on equipment and consumption by end-use for households, by mode and vehicle type in transport, or by branch in industry.
- The new template has been pre-filled by Enerdata with previous data and should be updated until 2018 (or the last year available)
- We also asked national teams to provide studies or surveys concerning transport and/or households sectors, so that Enerdata can try to estimate energy consumption split by end-use for households and by type of vehicle in transport if enough information is available



## New template on detailed data

Data to be collected organized by sector: transport, households, services, industry



Guidelines are given in the first sheet



### Status of data collection – as of mid June 2021

Country	All data updated by National team	Macro data updated by Enerdata	Detailed data updated by national team
Argentina	X		
Bolivia		X	No focal point
Brasil	X		
Chile		X	Work in progress
Colombia		X	Waiting for answer
Costa Rica		X	X
Ecuador		X	Work in progress
El Salvador		X	Work in progress
Guyana	Work in progress		
Mexico	X		
Nicaragua		X	No focal point
Panama		X	X
Paraguay		X	
Peru		X	No focal point
Rep. Dominicana	Work in progress		
Uruguay	X		



## Data mapper

https://biee-cepal.enerdata.net/datamapper/



## BIEE data mapper: main features

- The BIEE data mapper gives access to a selection of indicators showing both the range of values by country on a map and a ranking of countries (bar charts).
- Both levels and trends are available.
- Open access
- Key messages and a short analysis is available for each indicator in English and Spanish
- Possibility to access to some additional indicators to explain the trends observed ("Analysis")



# BIEE data mapper: main features

#### Language selection







## BIEE data mapper: enhancements

 The data mapper has been completely re-designed → more powerful technology, more userfriendly and more attractive

 The documentation of sources and glossary has been added in the

website



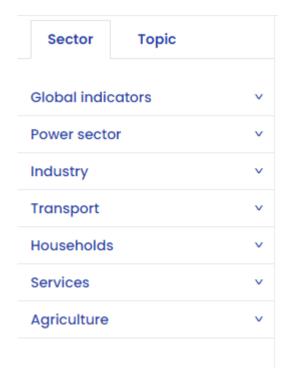


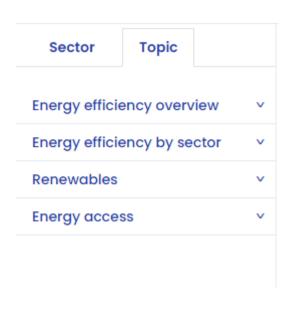




## BIEE data mapper: enhancements

- New indicators on renewables (SDG 7.1) and energy access (SDG 7.2) have been added in the data mapper
- Users have 2 different entries to consult the data mapper:
  - By sector: overall, power, industry, transport, households, services, agriculture
  - By SDG 7 topic: energy efficiency, renewables, energy access







# NEW!

# BIEE data mapper: enhancements

 Data mappers of Latin America and Caribbean have been merged in one data mapper

→ Possibility to zoom on Central America and Caribbean countries in the map





### Online demonstration

https://biee-cepal.enerdata.net/datamapper



Annex: SDG 7 indicators by topic



# Indicators calculated for energy access (7.1)

- % of households with access to clean cooking technologies
- % of clean fuels in households consumption
- % of households with access to electricity



## Indicators calculated for renewables (7.2)

#### Four types of indicators were proposed

Share of renewables in TPES (in oferta total)

Share of renewables in power\*

Share of renewables in final energy consumption\*\*

Share of renewables by end-use sector\*



<sup>\*</sup> See Annex for more details

<sup>\*\*</sup>Indicator implicitly proposed for monitoring OSD 7.2; indicator also used in Europe to set targets on renewables.

# Indicators calculated to monitor the energy efficiency dimension (7.3)

Primary energy intensity at purchasing power parities

Final energy intensity at purchasing power parities

Efficiency of power generation

Efficiency of thermal power plants

Rate of electricity T&D losses

Energy intensity of industry at purchasing power parities

Energy intensity of transport to GDP at purchasing power parities

Unit consumption of road transport per vehicle

Energy consumption of households per household

Electricity consumption per electrified households

Energy intensity of services at purchasing power parities

Electricity intensity of services at purchasing power parities

Electricity consumption for public lighting per capita

Energy intensity of agriculture at purchasing power parities

