



Kick off meeting of the BIEE-ROSE Project on
Energy Efficiency and SDG7 monitoring in Latin
America and the Caribbean
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Work programme 2020-2021

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Content

- **Introduction: overview**
- Update and expand the BIEE indicators data base
- OSD7 Policy data base
- Evaluation of EE policies

Perspectives of BIEE-ROSE project 2020-2021

- To take into account the 3 dimensions of OSD7, the new BIEE activity will be extended to renewables and energy access.
- Three main activities are proposed:
 1. Update to 2018/2019 and expand the BIEE indicators data base on energy efficiency indicators.
 2. Set up an OSD7 policy data base for LACs, as a complement of current BIEE data base on indicators.
 3. Evaluate the impact of policies with indicators, by combining the two data bases.
- Programme supported by Cepal, the French cooperation (ADEME, AFD) and EU Euro Clima programme.

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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 will be to provide data and indicators up to **2018 and 2019**.
- As the scope of the project is not only to monitor energy efficiency, but also the three dimensions of SDG7/OSD7, the current BIEE indicators will be extended to include energy access and renewables.

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Examples of use of a EE policy data base

- How many buildings codes in LAC's in services sector?
- How many labels or MEPS for EE electrical appliances?
- Which policies to support penetration of efficient AC?
- How many countries with audit schemes in industry?
- How many Energy Saving Obligation schemes in the region?
- Which policy for EE lighting or cooking?
- Which policies to support of efficient cars and electric cars ?
- Which policy for to promote solar water heating?
- What type of measures to promote co-generation, in which industrial sector?
- What type of subsidies schemes to support refurbishment in residential buildings? In commercial buildings?
- In which sector voluntary agreement are implemented
- What policy to address fuel poverty?

Policy data base: benefits for the countries

- Have an easy access to all EE measures existing in Latin America;
- Have the possibility to do advanced search by key words, category of measures, targets etc...
- Know what have been the successful measures.
- Know what are the new and innovative measures ?
- Learn from countries that have experimented a measure in an area where policies are needed.

Which policy data base for LACs?

- To reduce the cost of development of a data base software and to benefit from the 30 years of experience with such data base in Europe, the EU MURE data base software has been adapted to LACs in terms of categories and languages.
- ➔ Data base version available at <https://biece-cepal-measures.enerdata.net/energy-efficiency-policies-database.html>
- As for the data template, the national representatives would input the information in the system, but here no data is required, just a description of existing energy efficiency measures

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Policy evaluation

- Countries implement policies and need to see if they have an impact on the energy demand.
- Policies can be evaluated in two ways:
 - By evaluation of each individual measure → bottom up evaluation;
 - By evaluating a package or measures acting on a specific end use (e.g. cars, cooling, public lighting) with energy efficiency indicators → top-down evaluation.
- The first approach is more powerful but requires more information and can be quite costly: can be done from time to time.
- The top down method cannot evaluate individual measures but can be implemented on a yearly basis

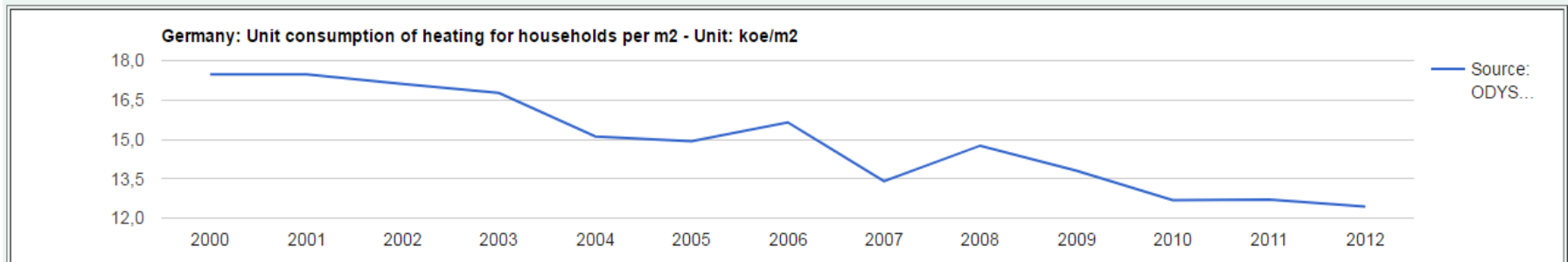
Top down policy evaluation

- Top down evaluation can be visualized through specific tools that enable to follow in parallel, i.e. on a same graph, the trend in energy efficiency indicators and the measures implemented that can affect these indicators.
- Such tools have been developed in the EU within the MURE data base: the so called "policy mapper" and for CONUEE in Mexico.

Example of the MURE policy mapper tool

The objective of this tool is to **visualize** the **link** between existing policy **measures (PaMs)** and selected energy efficiency indicators, that should be impacted by the PaMs, as a way to assess the impact of the PaMs.

Policy Mapper - Household - Impact Indicators - Germany



Code	Title	From	Updated
HOU-GER4	Energy Consultancy and Energy Checks of the Federation of German Consumer Organisations (Energieberatung und Energie-Checks der Verbraucherzentralen Bundesverband (vzbv))	1978	2017
HOU-GER11	Ordinance on Heat Consumption Metering (Verordnung über Heizkostenabrechnung)	1981	2014
HOU-GER9	On-site energy consultation (BAFA Vor-Ort-Beratung)	1991	2017
HOU-GER15	Small-Scale Combustion Plant Ordinance (Kleinf Feuerungsanlagenverordnung)	1993	2012
HOU-GER28	Ecological Tax Reform (Energy and Electricity Tax) (Ökologische Steuerreform – Energie und Stromsteuer)	1999	2015
HOU-GER32	Market Incentive Programme for Renewable Energies in Heat Market (Marktanreizprogramm für erneuerbare Energien im Wärmemarkt – MAP)	1999	2015
HOU-GER34	Energy Efficiency Campaign (Initiative EnergieEffizienz)	2002	2012
HOU-GER6	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy Savings Ordinance (Energieeinsparverordnung - EnEV)	2002	2015
HOU-GER47	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy certificates for buildings (Energieausweise für Gebäude)	2008	2015
HOU-GER97	Energy efficiency checks for low-income households (Caritas)	2009	2017
HOU-GER94	KfW Energy-efficient Construction ("Energieeffizientes Bauen")	2009	2015
HOU-GER33	KfW Programme "Energy-efficient refurbishment" (former CO2 Building Rehabilitation Programme)	2009	2015
HOU-GER98	Replenishment of the KfW programmes for energy-efficient construction and renovation (Aufstockung KfW-Gebäudeprogramme)	2009	2015
HOU-GER72	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Energy Consumption Labelling Ordinance – revised version (EnVKV - revised)	2010	2015
HOU-GER64	Smart Metering	2010	2013
HOU-GER99	Energy-Related Urban Renewal — Grants for Integrated District Concepts and Renovation Managers (Energietische Stadtsanierung – Zuschüsse für integrierte Quartierskonzepte und Sanierungsmanager)	2011	2015

Mexico policy tool

Query by policies and measures

- ▶ Residential
- ▶ Service

Query by indicators

- ▼ Residential
 - Electricity
 - AC
 - Lighting**
 - Hot water
 - Unit consumption for hot water
 - Solar Water heater
- ▶ Service

% of efficient lamps (%)

Source: BIEE

Click on the tooltips to view the description of the measurement.

