Energy efficiency monitoring in Mexico by indicators

Workshop on end-use data and energy efficiency metrics

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USO EFICIENTE DE LA ENERGÍ



What is the motivation in CONUEE on EE Indicators?

• National Commision for efficente use of energy (CONUEE)

- More than 27 years working on EE actions
- Technical body in change to promoting EE in Mexico by Law
 - Law for sustainable use of energy in 2008 (LASE)
 - Energy transition law in 2015 (LTE)
- Some requirements about monitoring by legal framework:
 - Developing energy efficiency indicators by sectors and end-use
 - Making benchmark between different countries regarding Mexico by sectors
 - To assess yearly the PRONASE (Mexican NEEAP)

Others motivation:

- Monitoring national and current policies (30 standards, programs, etc.)
- Starting to assess new challenges and EE policies considering in LTE
- Improve and strengthen the relationship with international cooperation
 - Economic Comission for Latin America and the Caribbean (ECLAC)
 - International Partnership for Energy Efficiency Cooperation (IPEEC)
 - French cooperation (ADEME and AFD)
 - International Energy Agency (IEA)



BIEE Project leading by ECLAC-UN



- This project is based on the European Union program, ODYSSEE-MURE
- BIEE Project was released in 2011 by ECLAC, it has sponsored by GIZ, and technical supported by ADEME and ENERDATA.
- Mexico in one of 19 countries in Latin America has been participating in this Project. Mexico has been participating since April 2013.
- ECLAC's tool allowed to Mexico obtain information for monitoring policies with EE indicators.
- ➤ To develop local capabilities in CONUEE.
- ➤To have and participate in a Latin american benchmark tool.

Interactive tool on line in BIEE Project





Main achievements with BIEE Project

- Conuce has integrated a team for collecting, processing data and integration EEI (In partial time).
- It has been processed 5,095 times statistical series, near 80% belongs to the energy and economy information in 7 sectors.
- Analyzed times series from 1990 to 2014.
- CONUEE has strengthened the relationships with the more energy intensive industrial associations (Steel, Chemical, Paper and Pulp, Cement, Sugar and Mining)
- BIEE tool has allowed to obtain more than 60 energy efficiency indicators.
- Now, CONUEE is finishing our first national report on EEI, incluiding nexus water-energy chapter.





Agreement for French-Mexican cooperation







Strengthen cooperation in aeras of energy efficiency monitoring between France and Mexico:

- I. Implementation of surveys on end-use consumption in selected sectors.
- II. Development, calculation and analisys **on advanced energy efficiency indicators**
- III. Methodologies for monitoring the NEEAP
- IV. Development of a national **interactive databese** on the energy demand and EEI.
- V. Implementation on an end-use long-term energy demand forecast model
- VI. Encourage dialogue between energy models implementation.



How is it going our cooperation in end-uses? What about space cooling in households?

Mexico started collecting different public information:

- I. Pupulation by state from CONAPO
- II. Dwellings with AC each two years from INEGI, but just national representative
- III. Stock of AC in households by state and representative, but disruption in the period
- IV. Number of users and electricity consumption by tarif and state from CFE, monthly
- V. CONUEE developed degree-days tool.
- VI. Temperatures (maximum, minimum and medium) and precipitation level by state, monthly from SMN



Methodology for the estimation of space cooling



Electricity consumption (MWh) and share estimated for space cooling by zone



Comisión Nacional para el Uso Eficiente de la Energía

Saturation rate for air conditioner

% of households with air conditioners % Years

Before (official sample)

After (soften serie for EEI)





Finally...

I thought that we had good data six month ago, now i am sure that we have more and better energy efficiency indicators

Thanksi

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