

Monitoring Energy efficiency through energy efficiency indicators in the EU 27

The ODYSSEE-MURE (EU-27) project

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1. The ODYSSEE project in Brief

Objectives of the ODYSSEE-MURE project

- This project has 3 main objectives:
 1. Evaluate and compare energy efficiency progress by sector for EU countries and for the EU as a whole, and relate the progress to the observed trend in energy consumption;
 2. Evaluate energy efficiency policy measures in the EU countries
 3. Monitor EU and national targets on energy efficiency.

- Relies on 2 data base one on indicators (odyssee) one on policy measures (www.mure2.com)

- 75% financing from the European Commission (EACI) and 25% by national teams (before 50/50)

Main features of ODYSSEE data base

- Data base covering:
 - ✓ Energy consumption data by sector and end-use and their drivers (about **1000 data series**, of which 600 main data series)
 - ➔ Half energy consumption data and half non energy data
 - ➔ Importance of the consistency between the definition and coverage of the energy consumption categories and drivers
 - ✓ Energy efficiency and CO2 indicators at macro or sectoral levels (**about 180 indicators**)
 - ✓ Period covered over 1990-2008/09 (from 1980 for most EU-15 countries) (1996 for some new members such as Baltic countries Malta and Cyprus)

Originality of ODYSSEE data base on indicators: organisation of the data collection (1/2)

- Decentralization of data collection => a guarantee to have the best data available in each country and a rapid updating to monitor the most recent trends;
- Great expertise and flexibility to develop new indicators to answer all new questions
- Central management to guarantee the harmonization and quality check (regular reports on data problems and interaction with national teams)
- Assistance to national teams to expand their data and make estimations (e.g. household consumption by end-use) ;

Originality of ODYSSEE data base on indicators (2/2)

- ✓Regular workshops to exchange on data and indicators and to review and compare the quality of the updating and data coverage → a good stimulus for countries
- ✓Availability of detailed indicators by end-use for the EU-27 and EU-15 as a whole, much beyond of what is currently available from existing data at Eurostat
- ✓Production of comparable indicators for countries outside the EU:
 - ✓Through a collaboration with IEA for Canada, USA, Japan, Korea, Australia, New Zealand, Switzerland (exchange of data);
 - ✓Through bilateral projects (e.g. Turkey, Tunisia)

- 2. The ODYSSEE « success story » relies on the project implementation



A network of national team (energy efficiency agencies) with a technical coordination



Characteristics and role of National Teams (NT)

- NT are the key actors of the project: they generally belong to national public energy efficiency agencies which ensure expertise, dissemination, legitimacy and motivation
- To perform the data collection
- To report on data gaps improvements
- To carry out a national report on energy efficiency trends based on comparable indicators and template
- To disseminate the results in particular to ministries
- To participate in the workshops for methodological discussion

NT are paid by the project (2m.m per year including policy measures and reporting)



Characteristics and role of the Technical Coordination (TC)

- ADEME is coordinating the overall project, with the assistance of a technical coordination which is composed of 4 partners which are private consultants or researchers, coming from 4 different countries (Fr, DE, IT, NL.).
- Their role is:
 - To elaborate the work programme and develop methodologies (ie. new indicators, new surveys etc.)
 - To train and assist N.T. in the data collection and reporting (hot line service)
 - To store and manage the data base including harmonisation, quality control and software development
 - To carry out the cross country comparison
 - (newsletter, websites)
 - To disseminate the results (commission, ministries, ODYSSEE users etc.)

3. Users, output, deliverables



The users of ODYSSEE data and indicators

- DG-ENER:
 - EMOS database (Energy Market Observatory)
 - Explicit reference in the Energy Service Directive to ODEX indicator
 - Basis to measure energy savings with top-down methods for the monitoring of the ESD Directive ;

- IEA: to complete its indicators for European countries.

- EEA (European Environmental Agency):
 - Indicators factsheets
 - Annual TERM report;
 - Annual report “State and Outlook of the Environnement »
 - Fourth pan-European environment assessment report in the 'Environment for Europe' process in the framework of UNECE.

*TERM monitors indicators tracking transport and environment integration in the EU



The users of ODYSSEE data and indicators

(cont'd)

- EUROSTAT designed its own indicators taking into account the experience of ODYSSEE indicators .
- CEN-CENELEC: design of a norm on energy savings measurement

Conclusion

No particular matter not to use ODYSSEE methodology and data

- ☛ All the data sources are referenced
- ☛ All the definitions (and interpretation of indicators) are referenced and transparent
- ☛ Methodology for definition and calculation of top down indicators are similar between odyssee/EDMC as well as IEA
- ☛ Adjusted indicators (to allow harmonised cross comparison) maybe more questionable. But they are not used in the EDMC (except climate correction)
- ☛ Partners of ODYSSEE are not official statisticians (except in some countries) but have close contacts

Conclusion

The ODYSSEE project implementation can be replicated in the region

- The « success story » of the ODYSSEE project is due to the decentralised project implementation which ensures the legitimacy of the results.
- The ODYSSEE methodologies is spreaded over 30 european countries as well as in emerging or developing countries (Tunisia, India, Algeria, Turkey) and applied to several international organisms (IEA, EU) or network (ex Medener).
- In the region, some initiatives could rely on ODYSSEE methodology (IPEEI initiative, OLADE etc.)
- This decentralised approach could be certainly replicated in the region. The ODYSSEE team will be honoured to collaborate with ECLAC

- ODYSSEE : the current best practices in Europe for monitoring energy efficiency

**Thank you for your attention
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Please visit us

<http://www.odyssee-indicators.org>
<http://www.MURE2.com>

