



First meeting of the project "ODYSSEE-MURE,
Monitoring EU Energy Efficiency First Principle and Policy
Implementation"
16-18 December 2019, Berlin, Germany

Odyssee-MURE Main features

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The new ODYSSEE proposal 2019-2021: Main features

New general topic: LC-SC3-EE-16-2018-2019-2020: "Supporting public authorities to implement the Energy Union/ Supporting the delivery of EED"

- New topical issues: Energy efficiency first fuel, fuel poverty, sufficiency, more updated indicators, continuation of MBs
- 30 months duration
- Budget (1,7 M€)
- 36 partners (New funded partners : Serbia and Switzerland, ECEEE), Balkans
 on board; Technical coordination : ADEME, FHG-ISI, Enerdata
- Based on the two data bases ODYSSEE-MURE
- New MURE data base software, new facilities (first fuel, industry)
- 3 updatings for ODYSSEE → one additional update to n-1
- Similar dissemination activities (Policy briefs, country profile)
- Management issues: 6 WPs; 3 regional meetings and 5 technical coordination meetings, 2 training of which one dedicated to balkans

The ODYSSEE-MURE network: more than 150 experts mainly from energy efficiency agencies gathering staticiens and policy analysts



























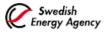








































WP2: Data collection for EE indicators requires to go beyond energy balance? But things are improving (Eurostat)

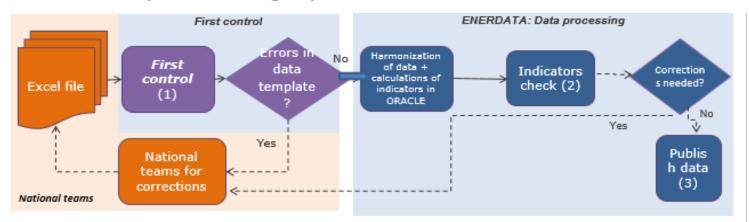
ADEME
th
Agence de l'Environnement et de la Maîtrise de l'Energie

	Туре	Level
1.	Energy intensities	by sector & sub sector
2.	Adjusted intensities	final and industry
3.	Specific energy consumption	by sub sector & end-use
4.	Benchmarked specific	steel, cement, paper, heating
5.	Energy efficiency indices (ODEX)	final and by sector
6.	Energy savings	final, by sector and sub sectors
7.	Indicators of diffusion	by sector
8.	CO ₂ intensities	by sector & sub sector
9.	Specific CO2 emissions	by sub sector & end-use
10	. Fuel poverty	Households
	. Sufficiency . Short term indicators	by sub sector & end-use



WP2 : Odyssee DB update

Focus on data processing by Enerdata



(1)First control: Excel template.

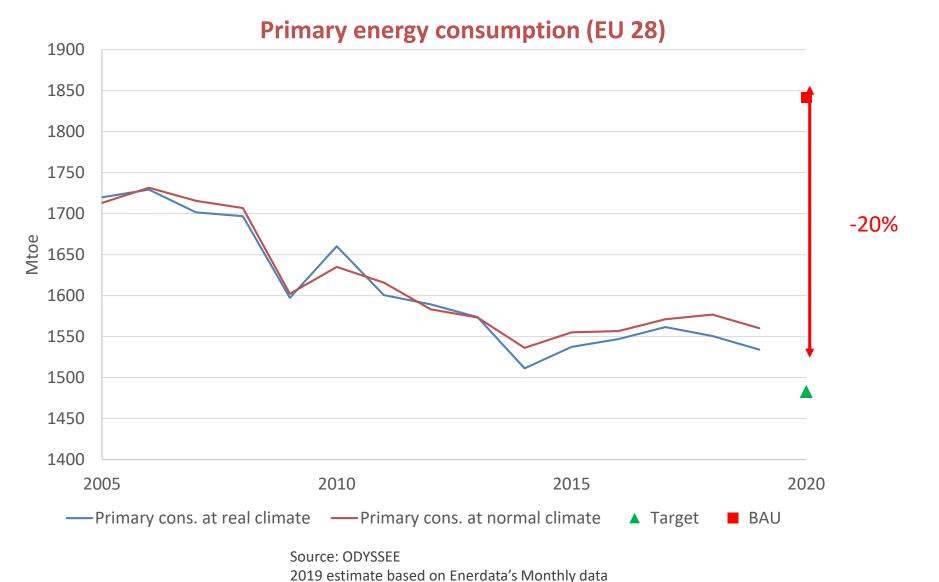
- Same as done by national teams: internal consistency, consistency with Eurostat/DGMOVE, indicators' graphs;
- Existence of data sources, unit for each datasets
- Checking of annual variation for a selection of data/indicators;

- (2) Second control: indicator check.
- Comparison of data and indicators compared to the previous update;
- Calculation of annual growth rate over the 3 last years;
- Visualization of a set of indicators through graphs;

(3) Last control before publication.

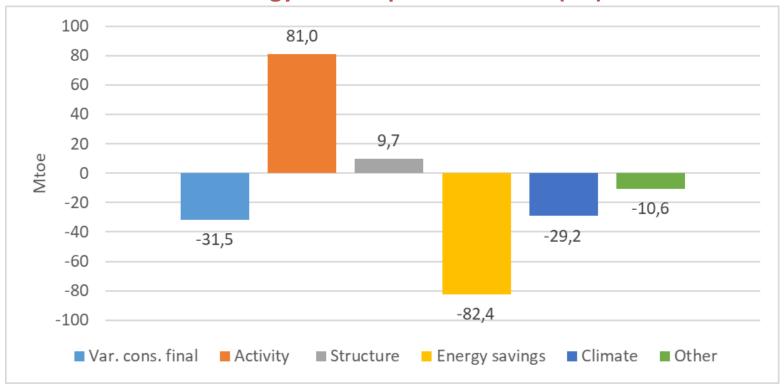
 Test on the number of datasets, check of empty datasets

- In 2018, EU primary energy consumption was close to the 2020 efficiency target (4.5% higher).
- The consumption at real climate decreases faster than the consumption with climate corrections because of the recent warmer winters



- ■Between 2010 and 2017, the activity effect contributed to raise the final consumption by 81 Mtoe.
- ■To a lesser extent, structural changes in industry and modal shift in transport also contributed to increase the consumption (+10 Mtoe).
- Energy savings totally offset the activity effect.
- ■The warmer climate in 2017 had a significant impact (-29 Mtoe) and is equivalent to the consumption reduction.

Drivers of final energy consumption variation (EU): 2010-2017



Activity effect: mainly economic growth, plus demography and lifestyle changes (appliance ownership and larger dwellings).

WP2: Other tasks for a better interpretation and data coverage

- 1. Additional data
 - Market diffusion » :
 - Data/indicators on fuel poverty and "sufficiency"
- 2. Decomposition of CO2 emissions
- 3. Transformation of the "energy savings tool" into a "target monitoring tool"



WP3: The new MURE data base

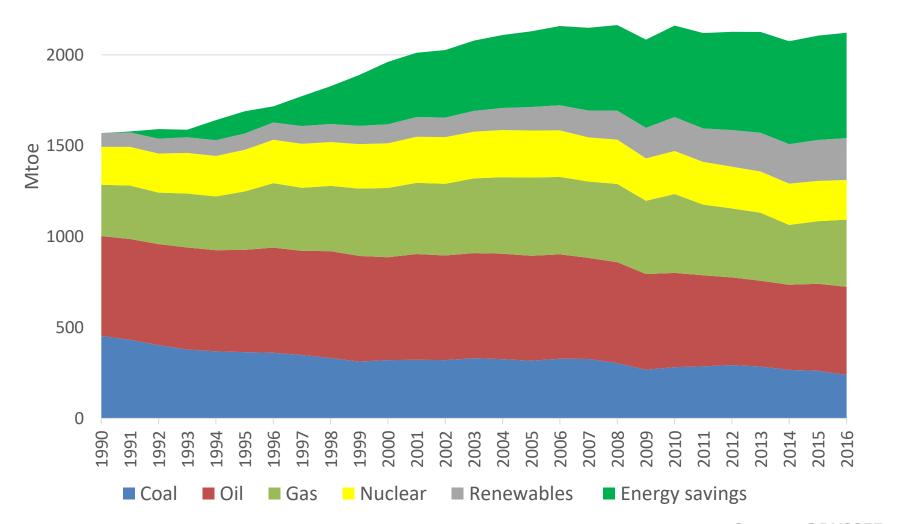
- 1. New software
- 2. Slightly renewed nomenclature of the P&Ms's parameters
- 3. Easier way to introduce new P&Ms in the data base for the National Team
- 4. Easier retrievals
- 5. New measures (sufficiency, fuel poverty)
- 6. New facilities

WP4: Operationalising the "Energy Efficiency First Principle" (EE1-P) for EED policies

- Task 4.1 Assessing EE P&Ms at national and EU level for the implementation of the EE1-Principle
- Task 4.2 Operationalising the EE1 Principle through a comparison between the implemented EE measures with economic EE potentials.
- Task 4.3 Operationalising the EE1 Principle through benchmarking of country efforts against each other
- Task 4.4 Analysing EE policies on energy poverty issues to overcome barriers to the EE1 Principle
- Task 4.5 Specific case studies on the EE1 principle
- Task 4.6 Development of an EE1 Facility



WP4: Energy efficiency first principle (EEI-P): Energy savings first fuel in EU29



Source: ODYSSEE



WP4: P&Ms towards low incomes households

Tools

ODYSSEE-MURE

Overview

Publications

A&O

Events

Contact



ase Radar graph Summary Table	more detail	29 measures found
h:	Country	♦ Title
	Lithuania	Agreements with energy suppliers on consumer education and counseling
e	Hungary	Electricity-Efficient Households Programme: Mitigation of household appliance electricity demand
	Germany	Energy Consultancy and Energy Checks of the Federation of German Consumer Organisations (Energiebera
	Germany	Energy efficiency checks for low-income households (Caritas)
	≑ France	Energy efficiency measures to tackle fuel poverty
	Germany	Energy Efficiency Strategy for Buildings
	France	Energy Saving Certificates (ESC) "Certificats d'Economies d'Energie (CEE)"
	France	Energy Transition Tax Credit (CITE) (ex- Sustainable Development Tax Credit)
	Greece	Energy Upgrading of social housing- The "Green Neighborhoods" ☐ Program
	Belgium	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Brussels - Act structurally on the den
	Malta	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy Efficiency in Low Income Hou
	Belgium	Federal government - Reduced VAT for renovation of old buildings
	Belgium	Federal government - Tax deduction for energy saving measures in residential buildings
	United Kingdo	m Home Energy Efficient Programmes (Scotland)
	France	Mandatory Energy Performance Diagnosis and audits in co-ownership properties
Search	United Kingdo	m Northern Ireland Sustainable Energy Programme (NISEP)
	Hungary	Our Home□ Renovation Sub-Programme: Mitigation of heat demand of residential buildings (family homes
Clear All	United Kingdo	m Reduction in VAT rate for energy saving materials
	Portugal	Remodelling Measures - This measure consists of three sub measures: efficient window, efficient insulation
ore options	Greece	Replacement of oil heating systems with natural gas ones in residential sector
	Greece	Saving at home programme
	Greece	Saving at home II□ programme
y default only ongoing measures are Slovenia		Scheme of energy efficiency for low-income households



WP4: The 4 EPOV's Fuel poverty indicators

- High share of energy expenditure in income (2M): part of population with share of energy expenditure in income more than twice the national median
- Hidden energy poverty (HEP): part of population whose absolute energy expenditure is below half the national median
- Inability to keep home adequately warm: based on selfreported thermal discomfort
- Arrears on utility bills: based on households' self-reported inability to pay utility bills on time in the last 12 months



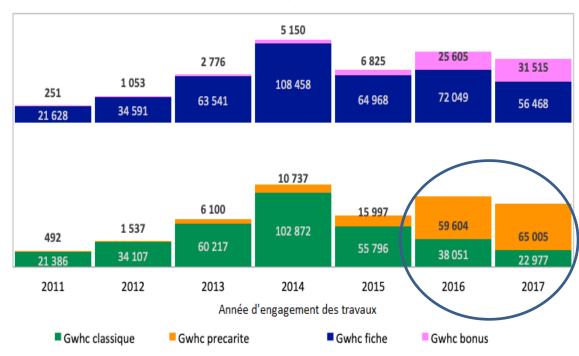
WP4: 60% of obligations in households are dedicated to fuel poverty in France

Since 2016 a share of obligations should be realised towards fuel poverty households.

As the results **60% of the volumes of obligations** have dedidicated to Fuel poverty).

This is due to a better valorisation of this type of obligations compared to the classic ones

Bâtiment résidentiel (en GWhc) : Précarité. Bonus.



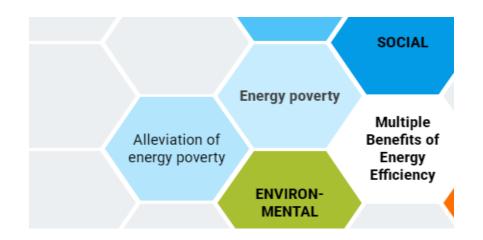




WP4: Energy poverty in ODYSSEE-MURE

Existing data in MB:EE facility

- Indicator on impact on Low income households
- Based on
 - energy savings (ODYSSEE, MURE)
 - energy prices (Eurostat)
 - Income deciles (Eurostat)



Energy poverty observatory

Primary indicators (<u>Arrears on utility bills</u>, <u>Low absolute energy expenditure (M/2)</u>, <u>High share of energy expenditure in income (2M)</u>, <u>Inability to keep home adequately warm</u>)

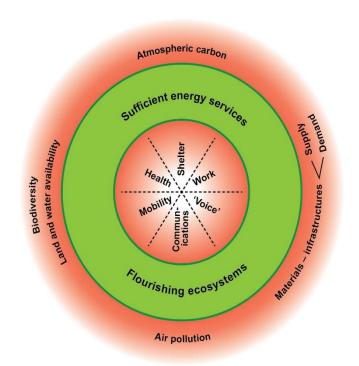
Secondary indicators (Energy prices, Number of rooms per person, Comfort, Energy expenses (for different income quintiles), Equipment rates (heating, cooling)

→ Suitable indicators to be added to ODYSSEE database? (income deciles, energy prices?)



WP4: Sufficiency: The donuts?

- Non shared definition. Debate among academics and ONG's. Few institutionals: This is the right moment for implementers.
- A tentative definition: Energy sufficiency is a state in which all the personal basics needs on energy services are satisfied with equity and respective to the environmental limits.
- Some issues: Suffered or chosen; Soft or Hard; Rupture or just a continuum with Energy efficiency

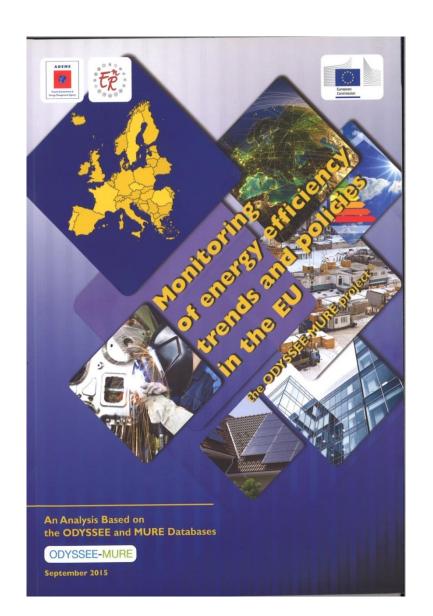




W5: Selected Dissemination Activities

Beyond the two databases updated to 2020 (ODYSSEE) and 2020 (MURE)

- 30 Country energy efficiency profiles
- 6 Sectoral profiles
- 5 Newsletters
- 5 National reports
- 15 printed policy briefs (edited and printed)
- 6 Webinars
- The combined scoreboard through the ECEEE's web site
- 1 article in a scientific journal (e.g. Energy Efficiency, Energy Policy, Energy & Environment etc.)
- International Activities : DGEN, JRC, ECEEE, EEA, IEA, Enr Club etc.



Thank you for your attention

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