



ODYSSEE-MURE Second regional meeting, 12 November 2020

Activities in WP4 Operationalising the "Energy Efficiency First Principle" (EE1) for EED policies through an indicator approach

Matthias Reuter, Barbara Schlomann, Wolfgang Eichhammer, Fraunhofer ISI

Tasks of WP4

- Task 4.1: Assessing EE policies and measures at national and EU level for the implementation of the EE1-Principle
- Task 4.2: Operationalising the EE1 Principle through an indicator-based approach.
- Task 4.3: Multiple Benefits of energy efficiency measuring the wider impacts of the EE1 Principle
- Task 4.4: Analysing EE policies on energy poverty issues and enhancing New Societal Trends and Sufficiency Policies as important enablers 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

Assessing EE policies and measures at national and EU level for the implementation of the EE1-Principle

Activities carried out:

- We developed criteria, how to assess the EE1-Principle in policy making
- We analysed the processes of the National Energy and Climate Plans
- We are conducting interviews with a semi-structured questionaire

→ Both are part of an ongoing Master thesis, in which we developed these criteria and currently conduct interviews.

Assessing EE policies and measures at national and EU level for the implementation of the EE1-Principle 10 Criteria for assessing the E1st principle

- Have policymakers included E1st in their policy making process?
 - Screening process, in which both supply and demand-options are compared with each other
 - Comparison of different solutions is conducted via a cost-benefit analysis (CBA)
 - Multiple benefits are included in the CBA and find consideration in target settings
 - Economic efficiency potentials are used as a guiding principle in target setting and policy making
- Creation of a level playing field
 - Prevention of distorted markets for demand-side investments
 - Provide access to capital in order to overcome private financing barrier
 - Providing access to information about demand-side solutions
 - Reduction of risk and uncertainty associated with energy efficiency investments
- Regional and local entities as well as market participants should apply the E1st principle → Does there exist a framework / do policies enable them to apply the principle?
 - Existence of a regulatory framework for regional and local entities to implement the E1st principle
- Monitoring and verification mechanisms
 - Existence of monitoring and verification processes



Analyse the processes of the National Energy and Climate Plans

- Interviews with National Teams and national policy makers
 - Interviews are currently arranged
 - 20 countries/NTs have been selected and contacted (7 interviews conducted)
 - Interviews are conducted October/November

1	Belgium	11	Netherlands ✓
2	Austria	12	Norway
3	France	13	Poland
4	Germany	14	Portugal ✓
5	Hungary	15	Romania ✓
6	Ireland ✓	16	Slovakia
7	Italy	17	Slovenia ✓
8	Latvia	18	Spain √
9	Lithuania ✓	19	Sweden
10	Malta	20	United Kingdom

→ The result of this analysis will be included into the EE1 Facility



Operationalising and scoring the EE1 Principle

- (a) through comparison of implemented EE measures with economic EE potentials based on:
- Data for economic EE potentials taken from ICF study and Fraunhofer Study
- -> Potentials have been extracted and prepared in an own database
- MURE enriched by additional data on investments (here we may also benefit from work done in the Assessment Tool project for DG Ener)
- -> Investment data has been collected and a systematic approach to valuate investments for different end-uses has been developed to act as default values to MURE data
- MB:EE facility

(b) through benchmarking of country efforts against each other

- gap between a country's performance and the best three countries in the European EE Scoreboard
- Identify investments required and the Multiple Benefits (from MB:EE) realized when closing the gap
- Discuss EE measures to close the EE1 gap (NTs will be invited to make recommendations)

Multiple Benefits of Energy Efficiency - measuring the wider impacts of the EE1 Principle

- For this purpose: Updating of the MB:EE facility
- Integration of the MB:EE facility into the MURE DB (possibly directly over the API that was developed and implemented by Enerdata)

-> Activity not yet started (foreseen first quarter 2021)

Enhancing the EE1 principle though EE policies integrating energy poverty issues and enhancing New Societal Trends and Sufficiency Policies as important enablers to overcome barriers to the EE1 Principle

- For this purpose we integrate two new descriptors into the database: "energy poverty" + "sufficiency"
- Integration of these new relationships into the EE1 facility (Task 4.6) to retrieve the necessary information
- → Integration of descriptors in MURE end of November. For sufficiency a suitable classification could be derived from work of Wuppertal Institute
- > To be filled in by NTs as part of the next update cycle of MURE

Develop specific case studies on the EE1 principle

5 Topics for case studies to be done by NTs:

- 1. Approaches and experience to implement the EE1 principle into the national EE policy frame
- 2. Demand versus supply options in building strategies (Unige)
- 3. Analysis of electricity savings versus supply enhancement
- 4. EE1 principle for electric vehicles
- Impacts of New Societal Trends on energy consumption and rebound effects
- NTs responsible: CUT (Cyprus), ENS (Denmark), ADEME (France), STEM (Sweden), UNIGE/ZHAW (Switzerland)

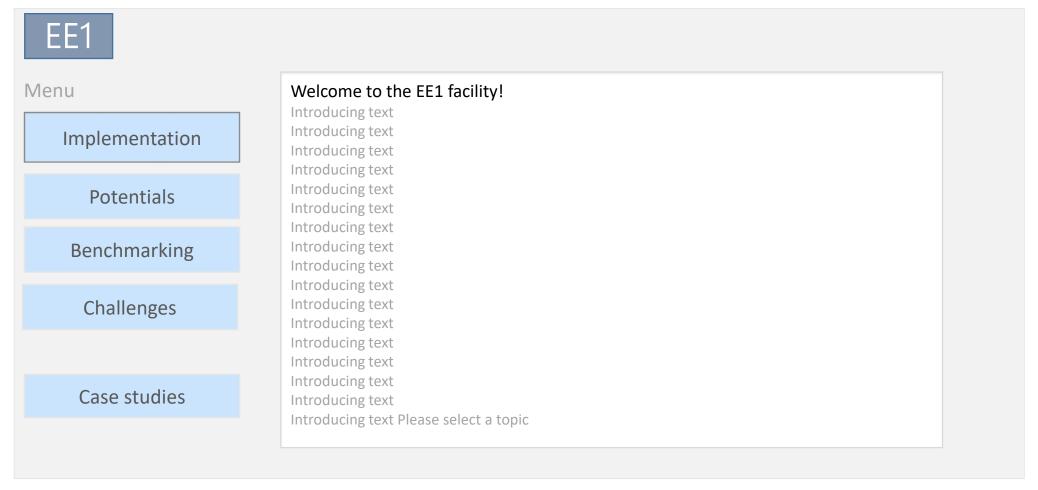
Alternative topics?

Template has been circulated with respective NTs

Development of an EE1 Facility under the Odyssee-MURE project

- Sub-facility assessing EE policies and measures at national and EU level for the implementation of the EE1-Principle (Task 4.1).
- Sub-facility for operationalising the EE1 Principle through a comparison between the implemented EE measures with economic EE potentials through benchmarking of country efforts against each other (Task 4.2).
- Linking of the upgraded MB:EE Facility to the EE1 Facility (Task 4.3)
- Sub-facility for analysing EE policies on energy poverty issues and enhancing New Societal Trends and Sufficiency Policies as important enablers to overcome barriers to the EE1 Principle (Task 4.4).
- Sub-facility for specific case studies on the EE1 principle (Task 4.5).
- → External developer already agreed

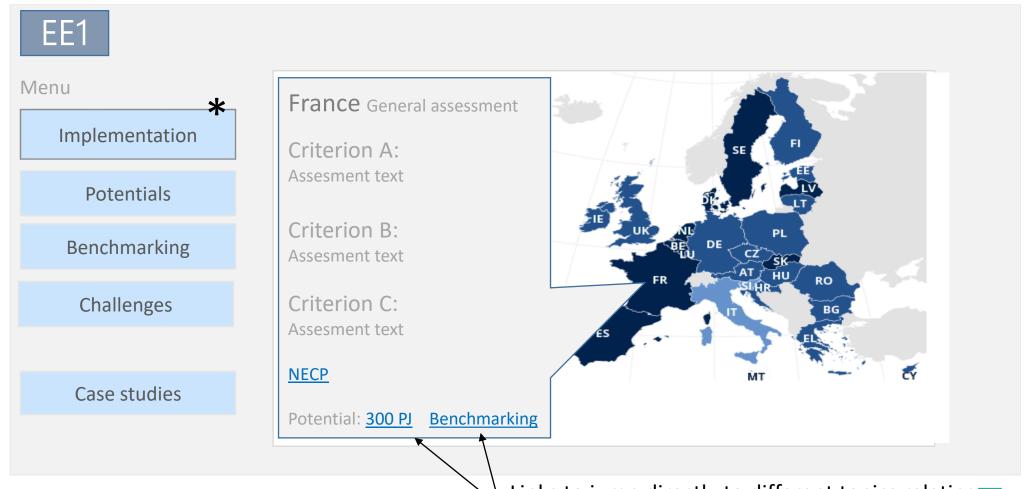
Mock-up





Mock-up

Information on country after clicking on the map

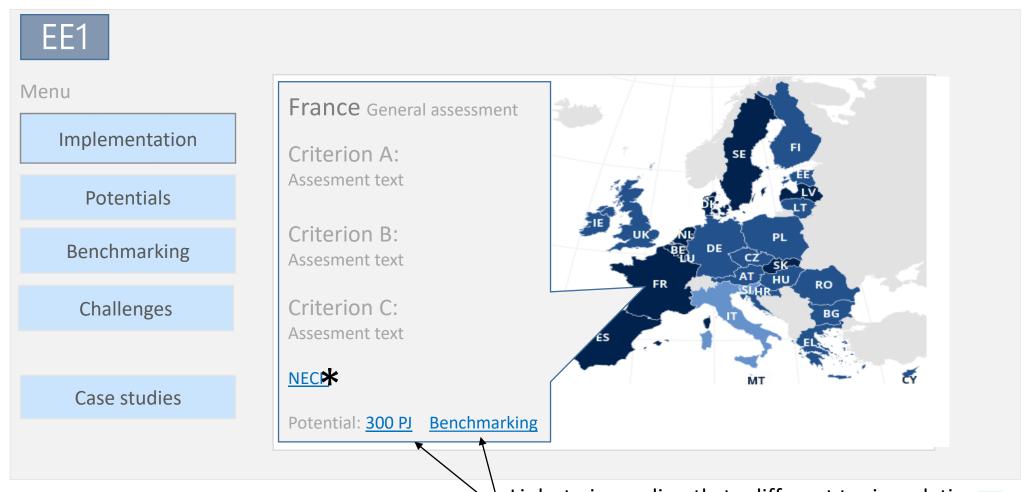


Links to jump directly to different topics relating Fraunhofer to the country



Mock-up

Information on country after clicking on the map

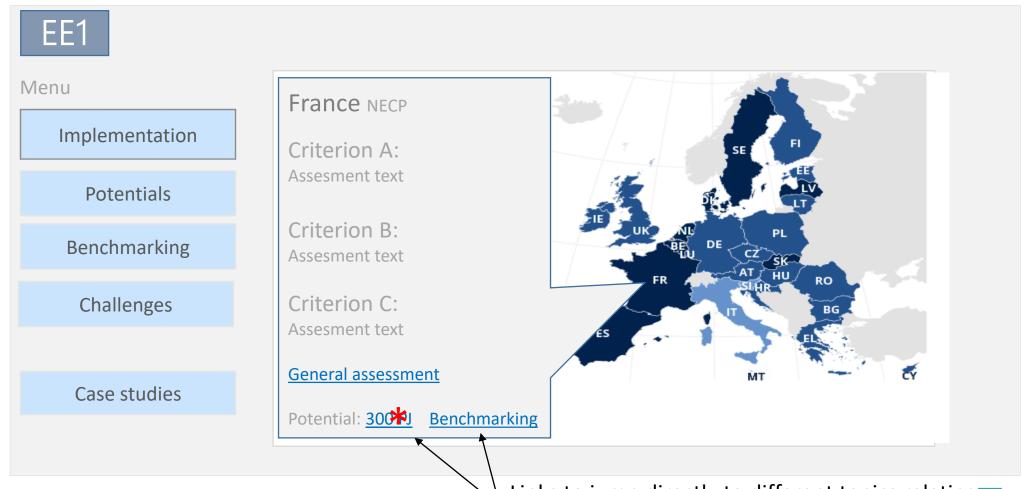


Links to jump directly to different topics relating Fraunhofer to the country



Mock-up

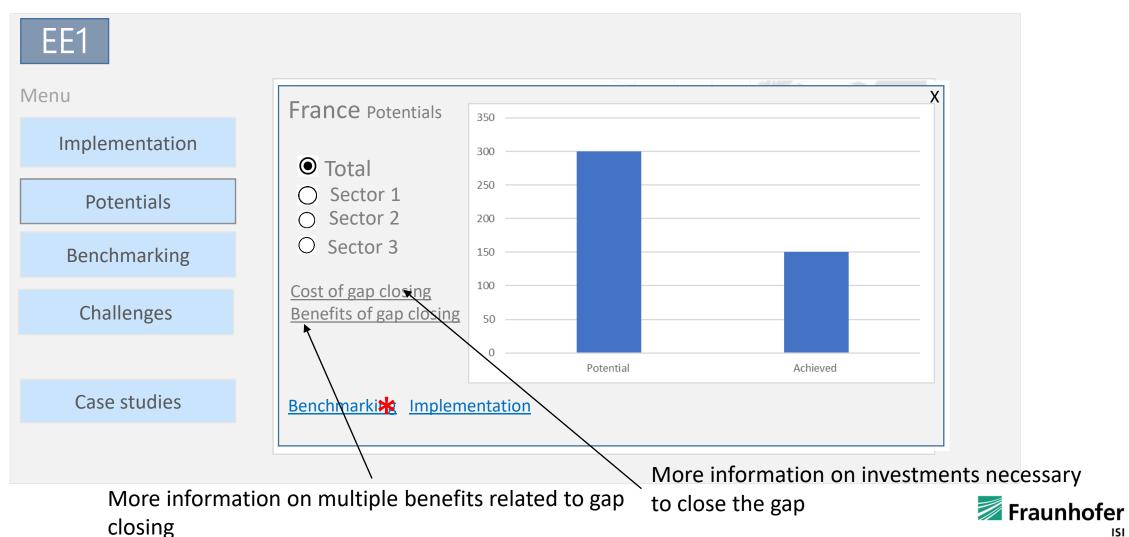
Detailed information on the implementation within the NECP



Links to jump directly to different topics relating Fraunhofer to the country

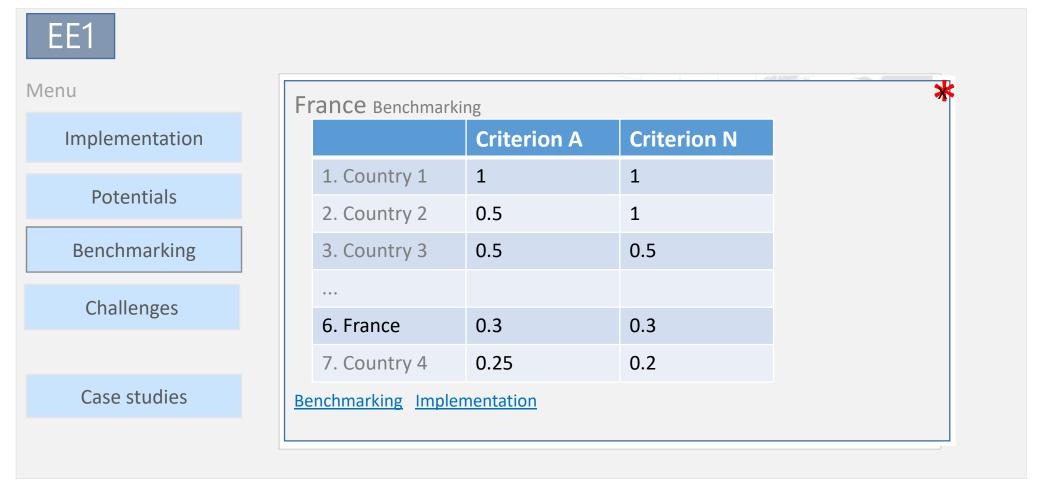
Mock-up

Detailed information on potentials



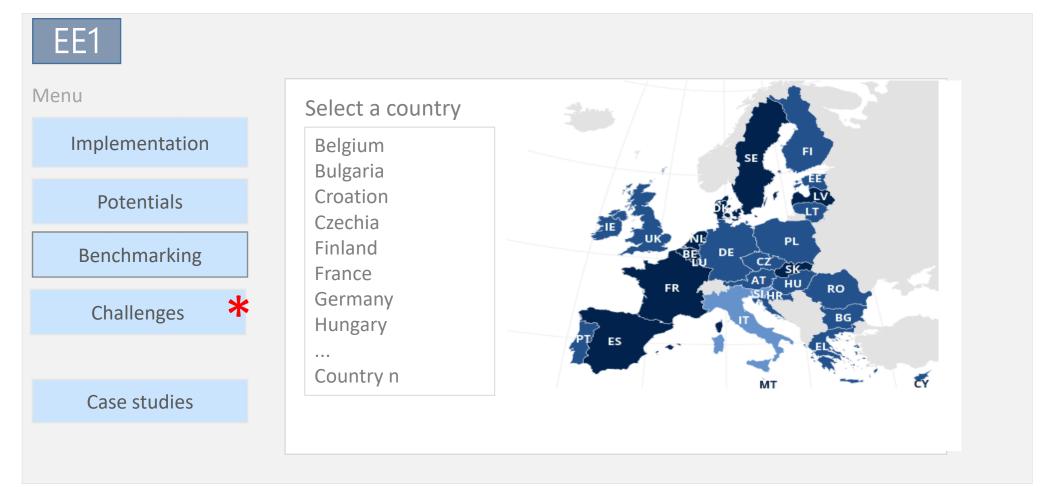
Mock-up

Information on the ranking of country



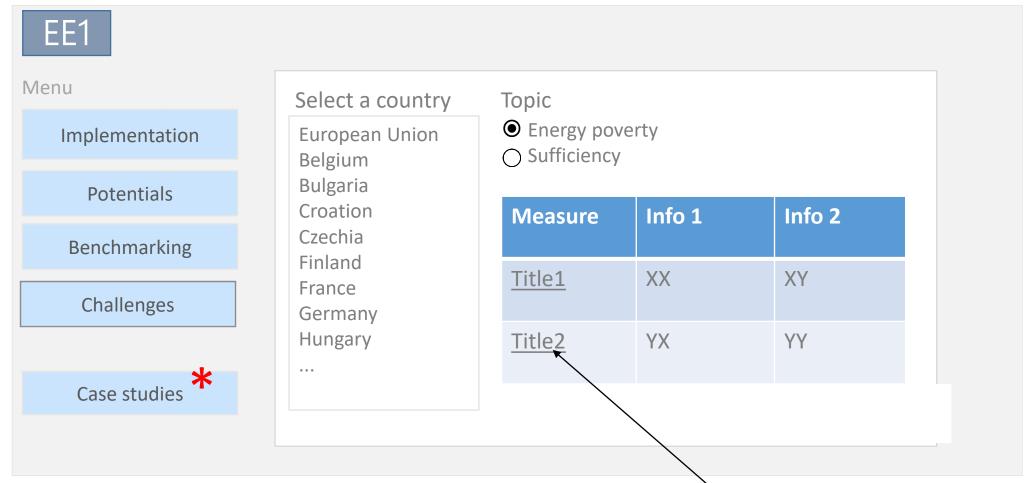
Mock-up

Back to selecting a country for benchmarking



Mock-up

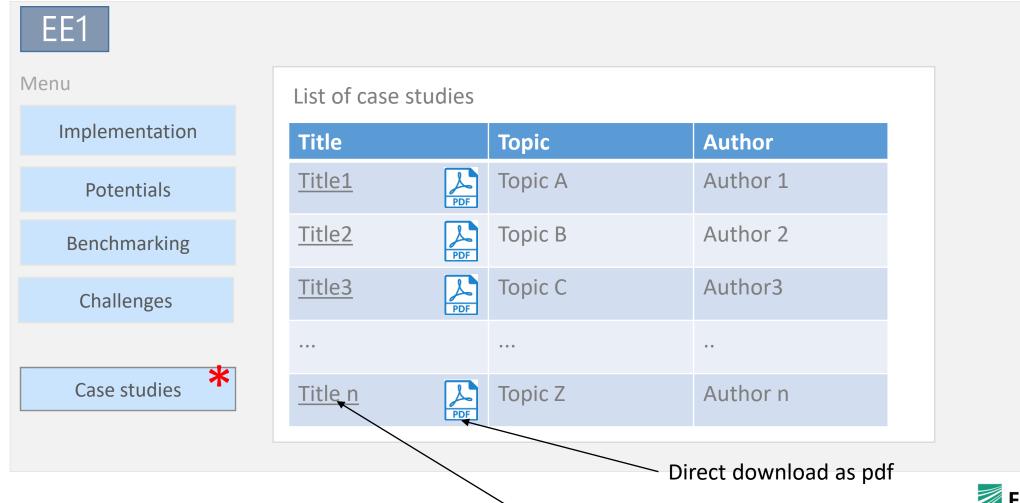
Retrieving information from MURE on topic X in country Y



Opening overlay with more info from MURE

Mock-up

List of case studies



Next steps in WP4

- → Conducting interviews (October to November 2020)
- →Implementation of additional descriptors into MURE

 Filling in the information part of next update cycle (first quarter of 2021)
- → Case studies to be done by NTs (December 2020/January 2021)
- → Development of EE1 facility (implementation first quarter of 2021; external partner (MB:EE) already agreed)
- → Webinar in March/April of 2021 to present the first draft of the facility