

E3P

European Energy Efficiency Platform

<http://e3p-beta.jrc.nl/>

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Why an European Energy Efficiency Platform?

Energy efficiency in the European energy policy agenda

- **Energy Union: 5 dimensions**
 - Energy security, solidarity and trust
 - A fully-integrated internal energy market
 - **Energy efficiency as a contribution to the moderation of energy demand**
 - Decarbonisation of the economy
 - Research, innovation and competitiveness

- **SET Plan: 4 core priorities**
 - Leader in renewable energy sources
 - Smart EU energy system
 - **Efficient energy systems**
 - More sustainable transport systems

Multi-faceted policy

- Energy efficiency directive
- Energy efficient products, energy labelling and ecodesign
- Energy performance of buildings directive
- Covenant of Mayors
- Smart cities
- Cogeneration of heat and power
- Heating and cooling
- Financing energy efficiency

Policy support needs data

European data and information providers

- Eurostat: Member State statistics
- EEA: datasets and analysis
- Odyssee-Mure database indicators and measures
- BPIE: buildings data hub
- eceee: publications

European projects

- bigEE: buildings, information dissemination
- BuildUP: buildings, dissemination, education

Challenges in data gathering

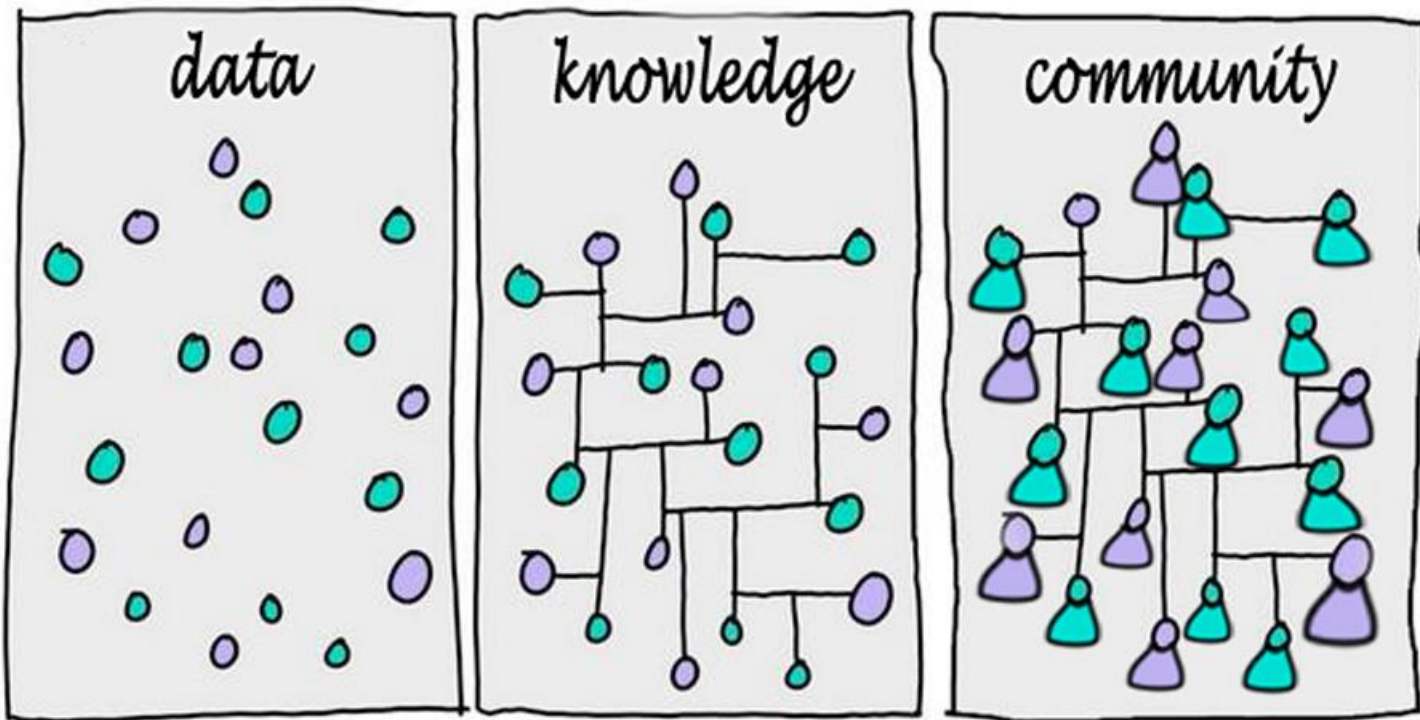
- Multi-sectorial → **scattered** data
- Rapidly evolving sectors → **updated** data
- Geographical coverage → **comparability**
- Harmonized methodologies → **consistency**
- National statistical organisations → **granularity**
- Sectorial organisations → **completeness**
- Reuse of data → **accessibility**
- Exchange of data and good practices → **collaboration**

Energy Union Strategy roadmap

"Data, analysis and intelligence for the Energy Union:

initiative pooling and making easily accessible all relevant knowledge in the Commission and Member States"

the E3P concept



The objectives

- A **single European entry point** to give direct access to comprehensive knowledge
- A tool to :
 - **pool resources** from all stakeholders: researchers, national agencies, consultants, policy-makers, manufacturers, financing sector, consumer associations.
 - create a **collaborative environment** to build new knowledge
 - **connect** data and information available and their providers
 - enable all experts to participate in a **bottom-up data collection** (expert crowd sourcing) and complement existing data providers

The novelty

- Experts
 - **upload** their data and knowledge
 - create **working groups** and collaborate to create new knowledge
 - post a **Call for content** or expertise
- Content (datasets and articles)
 - **cross-linked** with internal and external content
 - readily **accessible for reuse**
 - **validated**

a user-centric virtual lab

E3P tour





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Energy Efficiency and GHG Emissions: Prospective Scenarios for... (12 30 Mar)



NREAPs and progress reports interactive database (12 30 Mar)



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Financing energy renovations in the European building stock

Created by [M. ECONOMIDOU](#) 

Introduction

With the right set of policy tools, it is generally accepted that governments can play a crucial role in promoting energy efficiency and leveraging more investments in the building sector, especially in the existing stock. Buildings are responsible for 40% of total energy consumption of the EU and their modernisation is considered to be pivotal in our shift towards a low carbon economy.

Current experience shows that actual energy efficiency investments in this segment of the building stock neither meet the scale nor the quality aligned with its overall potential. There is a wide range of [policies at EU level](#) which require Member States to set a number of regulatory, informative and economic measures with the aim to improve the energy performance of buildings. For now, economic instruments appear to dominate the policy framework for existing buildings, while the need for more market action and enhanced private sector involvement is increasingly highlighted as this offers the only sustainable route for scaling up existing efforts.

Economic instruments for energy renovations

Economic instruments for [energy renovations](#) are divided in financial instruments such as loans, grants and subsidies, fiscal instruments such as tax credits or VAT reductions and market-based instruments such as energy saving obligations or white certificates.

Types of conventional economic instruments

FINANCIAL INCENTIVES	FISCAL INSTRUMENTS	MARKET-BASED INSTRUMENTS
Loans, Grants, Subsidies	Income tax credit or deduction; Accelerated depreciation; VAT reduction; Property taxation; Tax rebates	Energy saving obligations; White certificates;

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External References

- [Financing building energy renovations 2014](#)

Tags

Geographical area:
[EU-28](#)



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Assessment of Member States' building renovation strategies

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The JRC undertook an assessment of 31 national/regional building renovation strategies submitted by the Member States in the framework of the EED. The analysis assessed and evaluated the compliance with all the items of Article 4 and checked if they were adequately addressed in each national renovation strategy.

The evaluation assessed compliance of each strategy to EED Article 4 provisions in the five relevant areas (Article 4 sub-paragraphs). The level of details and accuracy of the information provided in each section was evaluated. In the appraisal of the strategies each section was scored on a 0-5 scale, where:

0 (missing):

the item is not covered at all, or only described in another source;

1 (unsatisfactory):

only the most cursory coverage of the item;

2 (inadequate / partially compliant):

item addressed poorly, with insufficient detail, or with important aspects missing;

3 (adequate):

meets the basic minimum requirements;

4 (good):

topic is described in some detail;

5 (excellent):

exemplary coverage of the topic.

4(a) - Overview of building stock

The following aspects have been considered for the evaluation of the requirement of Article 4(a):

- Identification of main building categories,
- Identification of age bands having a material bearing on building energy performance,
- Distribution of Energy Performance Certificate ratings by building sector/type,
- Information on climatic zones which have a material bearing on building energy performance,
- Information on ownership (i.e. public, private or mixed),
- Information on tenure (i.e. Owner occupied, rented or mixed),
- Identification of energy use and performance characteristics of each building combination.

4(b) - Identification of cost-effective approach to renovation

The "Commission's guidance for NEEAP" translates this point in the following key questions:

- What technical opportunities for retrofit of energy efficiency measures for each building category have been identified? What technical opportunities for retrofit of renewable energy measures have been identified? Has the opportunity to connect to a district heating system been considered?

Dataset

Author: ▶ Paolo ZANGHERI

Source:

▶ IET Database

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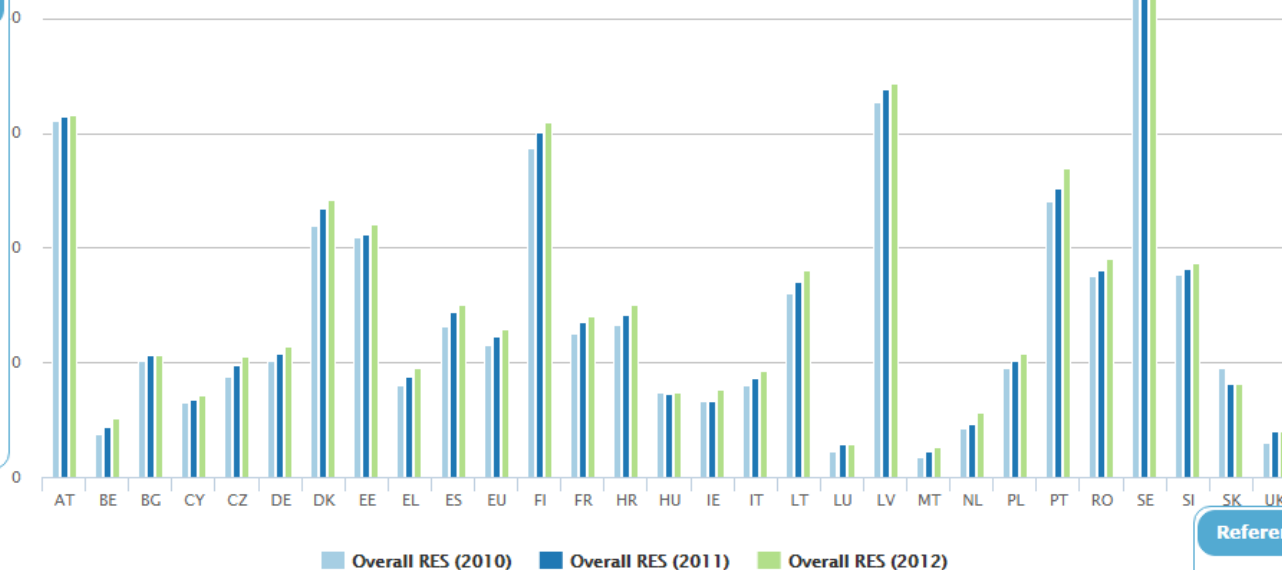
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- ▶ [4\(d\) - Forward-looking perspective to guide investment decisions](#)
- ▶ [4\(e\) - Estimate of expected energy savings and wider benefits](#)

External References

- ▶ [Synthesis Report on the assessment of MSs' building renovation strategies](#)

My Datasets

- ✗ [RES shares NREAPs](#)
- + [Expected renewable electricity capacity in EU according NREAPs](#)
- + [Expected Gross Final Energy Consumption in EU according NREAPs](#)
- + [Expected contribution of RES in electricity sector in EU according NREAPs](#)
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- + [Expected use of RES in transport sector in EU according NREAPs](#)



CATEGORY	OVERALL RES (2010)	OVERALL RES (2011)	OVERALL RES (2012)
AT	31.1	31.4	31.6
BE	3.8	4.4	5.2
BG	10.1	10.7	10.7


References

Internal References

- [NREAPs and progress reports interactive database](#)

External References

- [European Commission Transparency Platform](#)




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
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Energy and Location



The Energy and Location group has been created as a follow up of the workshop Spatial data for modelling building stock energy needs, held at JRC-Ispira on 24-26 November 2015 as an informal network to take part in further discussions and actions.

The workshop was organised by the Institute for Environment and Sustainability (IES) - Digital Earth and Reference Data Unit and the Institute for Energy and Transport (IET) - Renewable and Energy Efficiency Unit of the European Commission Joint Research Centre.

The main objective of this workshop was to share experience in data collection and methodologies to support energy efficiency policies and scope a possible pilot to establish a harmonised approach supporting EPBD, EED and COM using INSPIRE as a 'location' framework.


The outcome of the workshop are available in the proceedings [Spatial data for modelling building stock energy needs](#).


It was agreed that the **pilot study** envisaged in the **JRC Energy and Location project** should focus on issues of: scaling (from building to building stock), data requirements and treatment (including anonymization and uncertainty), connecting databases by conversion and control routines. The list of the use cases will be reported soon.


16-02-16 This group is launching a [Call for experts](#)

23-02-16 The [Proceedings of the workshop](#) have been published, along with the Annex to proceedings which contains the presentations given by the participants.

Group Content

 [Proceedings of the workshop Spatial data for modelling building stock energy needs](#)

 [Call for Experts in the area of Energy and geolocation data](#)

 [Follow up of the workshop](#)

 [Location data for buildings related energy efficiency policies](#)



Created by

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Created On

Tuesday, December 1, 2015 - 15:58

Language(s)

English

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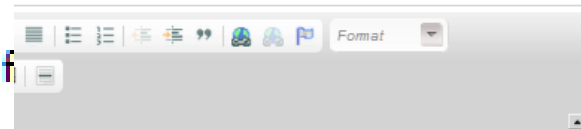
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Financing energy renovations in the European building stock

With the right set of policy tools, it is generally accepted that governments can play a crucial role in promoting energy efficiency and leveraging more investments in the building sector, especially in the existing stock. Buildings are responsible for 40% of total energy consumption of the EU and their modernisation is considered to be pivotal in our shift towards a low carbon economy. Current experience shows that...



31 Mar 2016 151 (4)



Assessment of Member States' building renovation strategies

Introduction The JRC undertook an assessment of 31 national/regional building renovation strategies submitted by the Member States in the framework of the EED. The analysis assessed and evaluated the compliance with all the items of Article 4 and checked if they were adequately addressed in each national renovation strategy.



31 Mar 2016 21 (21)



CoM Final Energy Consumption in Buildings

Final energy consumption in Buildings, as declared by CoM signatories in Baseline Emission Inventories (BEI), aggregated per Member States and per year.



31 Mar 2016 5 (5)



Call for Experts in the area of Energy and geolocation data

This is a call for Experts in the area of energy performance of buildings, sustainable energy planning at local level and/or geolocation data.



31 Mar 2016 72 (1)



Energy Savings Calculation Methods under Article 7 of the Energy Efficiency Directive

The present report aims to provide an overview of the main issues at stake with the calculation methods for





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- ☐ econmar (2)
- ☐ lucaand (2)
- ☐ Maria-Teresa Borzacchiello (2)
- ☐ maschis (2)
- ☐ mathifa (2)
- ☐ Albana Kona (1)
- ☐ castluc (1)

Date changed



Financing energy renovations in the European building stock

With the right set of policy tools, it is generally accepted that governments can play a crucial role in promoting energy efficiency and leveraging more investments in the building sector, especially in the existing stock. Buildings are responsible for 40% of total energy consumption of the EU and their modernisation is considered to be pivotal in our shift towards a low carbon economy. Current experience shows that...

31 Mar 2016 151 (4)



Assessment of Member States' building renovation strategies

Introduction The JRC undertook an assessment of 31 national/regional building renovation strategies submitted by the Member States in the framework of the EED. The analysis assessed and evaluated the compliance with all the items of Article 4 and checked if they were adequately addressed in each national renovation strategy.

31 Mar 2016 21 (21)



CoM Final Energy Consumption in Buildings

Final energy consumption in Buildings, as declared by CoM signatories in Baseline Emission Inventories (BEI), aggregated per Member States and per year.



Call for Experts

This is a call for Experts in the field of energy efficiency at level and/or geolocation of...



Energy Savings Calculation Methods under Article 7 of the Energy Efficiency Directive

The present report aims to provide an overview of the main issues at stake with the calculation methods for...



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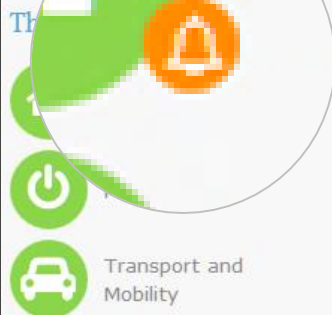
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Call for Experts in the area of Energy and geolocation data

Object: Expert

Deadline: Sunday, April 10, 2016 - 17:30

This is a call for **Experts in the area of energy performance of buildings, sustainable energy planning at local level and/or geolocation data.**

The JRC has carried out the feasibility study "[Location data for buildings related energy efficiency policies](#)" to investigate how location data can support energy efficiency policies, in particular for the assessment of energy performance and needs of buildings and urban areas.

The study confirmed that the use of geolocated data (such as cadastral data e.g.) can improve the quality of the input data for the assessment of the energy performance of buildings and the energy need of buildings and districts. They can also contribute to improve sustainable energy planning and monitoring in urban areas.

The JRC is now launching a pilot project for the application to the local and regional levels of the methodologies identified in the pilot study for the assessment of energy needs and for the scaling up from building, to district, cities and regions.

Experts are expected to participate in the working group and to contribute with knowledge of methodologies for the assessment of **energy performance of buildings, of energy needs at local level and of geolocation data for energy applications.**

Internal References

- [Location data for buildings related energy efficiency policies](#)
- [European Union Location Framework](#)
- [MESHARTILITY project : A roundtable to discuss data-related challenges in local authorities](#)
- [The Covenant of Mayors initiative for local sustainable energy](#)

Tags

Keywords:

- [Energy and Location](#)



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
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interests include Smart cities and the use of satellite

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First questions

What is my added value for contributing to the E3P (1)?

- Researcher: share **data and findings** to get expert feedback; share **models** and call for data for their validation
- Policy maker: share monitoring reports for exchange of **best practices**; open informal discussion groups with **stakeholders**, share legislation for **dissemination**
- Consultant: share **analysis** with targeted and large European audience

What is my added value for contributing to the E3P (2)?

- Manufacturer: share **market data** and call for models for analysis of trends
- National agency: share **national data** for comparison and benchmarking
- International organisation: share **publications** and **analysis** with wider audience

What can other experts do with my data or content ?

- all users must agree on the **E3P Terms of Use**
- they agree that data and all content are shared under the conditions set by the Creative Commons Attribution 4.0 international (**CC BY 4.0 int.**)

Reuse is authorised, provided the source is acknowledged.

How do we prevent misuse of the E3P ?

1. Users who want to contribute need:
 - to be **authenticated** via the European Commission Authentication System (ECAS)
 - to have completed their E3P profile in order to receive **rights to contribute**
2. All content in the E3P undergoes a **validation procedure** before being published
3. After publication, the E3P team can **un-publish** content if deemed inappropriate (E3P Terms of Use)

How do we avoid duplication with existing data providers ?

- we contact data and information providers and collaborate in order to **avoid overlapping** and useless development
- users are recommended to make **links and connections to pre-existing content** rather than re-uploading it
- we are evaluating the possibility to develop **interoperable applications** and tools in the future

Next steps



Phase 1 → Dec. 2016

➤ JRC

- defines and implements **E3P development**
- analyses feedback and proposal by participants and **implements IT improvements**, adds Geographical Information System and Models to Data Hub
- continues **content management** and monitoring of the E3P

➤ users

- build content focusing on **Buildings and Products** (not exclusive)
- provide **feedback** and recommendations

Parallel sessions: buildings and products

- How is **JRC** using the E3P
- What will **participants** contribute
 - Content: articles, datasets
 - Groups, experts
 - Other
- **Improvements** and suggestions
- Work **plan**

Phase 2 - Dec. 2016 →

➤ JRC

- plans E3P development
- continues **IT** development and maintenance
- progressively **transfers content management** and monitoring of the E3P to dedicated users and ultimately reaches a fully peer-reviewed process

➤ users

- build content in **all sectors**
- provide **feedback** and recommendations
- progressively take over from JRC **content management** and monitoring
- contribute to plan the development of the **E3P**

“Knowledge grows when shared”

Bhartrihari (Indian poet and grammarian c 450-510)