



PRESENTATION OF EUROPEAN PROJECTS

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AGENDA

➔ Programmes of European Commission

- ➔ Tenders of European Commission
- ➔ Horizon 2020
- ➔ Intelligent Energy – Europe (IEE)

➔ European projects

- ➔ Building Observatory
- ➔ Selecting Indicators to Measure Energy Poverty
- ➔ ENTRANZE
- ➔ Train-to-NZEB
- ➔ ingREeS

INTELLIGENT ENERGY – EUROPE (IEE)

- ➔ Intelligent Energy – Europe (IEE) is now closed, although a number of projects funded under the programme are continuing.
- ➔ IEE offered a helping hand to organisations willing to improve energy sustainability.
- ➔ Launched in 2003 by the European Commission, the programme was part of a broad push to create an energy-intelligent future for us all.



TENDERS OF EUROPEAN COMMISSION

- ➔ The Commission uses public contracts to buy goods and services - studies, technical assistance and training; consultancy, conference and publicity services; books and IT equipment etc. The providers are selected via calls for tender which are issued by the Commission departments, offices and agencies around Europe.



HORIZON 2020

- ➔ Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that this money will attract. It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market.



BUILDING OBSERVATORY - DATABASE

EU Buildings Database

Items

Countries

Years

Building stock characteristics

Building shell performance

Technical building systems

Nearly zero-energy buildings

Building renovation

Energy consumption

Certification

Financing

Energy poverty

Energy market

Back to Home - EU Buildings

Right click to select all items of a level.

Enter word to search items in the list

Summary table [Need help to use this database?](#)

Items: 0 Countries: 29 Years: 5

Please select at least one item

How to use this database?

Indicators query:

- Select **indicator(s)** (Items tab in the left menu):
 - Several indicators can be selected at the same time; (right) click on indicators;
 - You can also use the search engine (at the bottom the indicators list) to find an indicator of your interest.
- Select **country(ies)** (Countries tab in the left menu):
 - User can choose one or several countries; to display aggregated data for an entire European select "EU28";
 - By default, all countries are selected;
- Select **year(s)** (Years tab in the left menu):
 - User can choose one or several years; By default, the last 5 years (>2000) are selected.
- Short data sources are provided by default in the result data tables. Detailed long sources can be visualized through . Links on data sources are available using the mouse on the short titles.
- To display the results by indicator click on the "eye" icon, next to the indicator name.
- To display data by country by indicator click on the "eye" icon, next to the country name.
- Users can unselect indicators, countries and/or years by clicking on .
- A search engine module has been added into the database to allow users to search for information on a topic without entering the menu. In this case, users have to enter a keyword (e.g. nZEB) in the input field below the left menu; the system then lists all the indicators which contain the typed word.

Once selected, indicators appear in a table or graph. Data can be downloadable in Excel to be used for reporting purposes. Indicators are clearly defined, by hovering the mouse over the icon , close to the title of the indicators.

Settings and options:



BUILDING OBSERVATORY - DATAMAPPER

EU Buildings Datamapper

Datamapper menu

Building stock characteristics ▾

Building shell performance ▾

Technical building systems ▾

Nearly zero-energy buildings ▾

Energy consumption ▾

Certification ▾

Energy poverty ▾

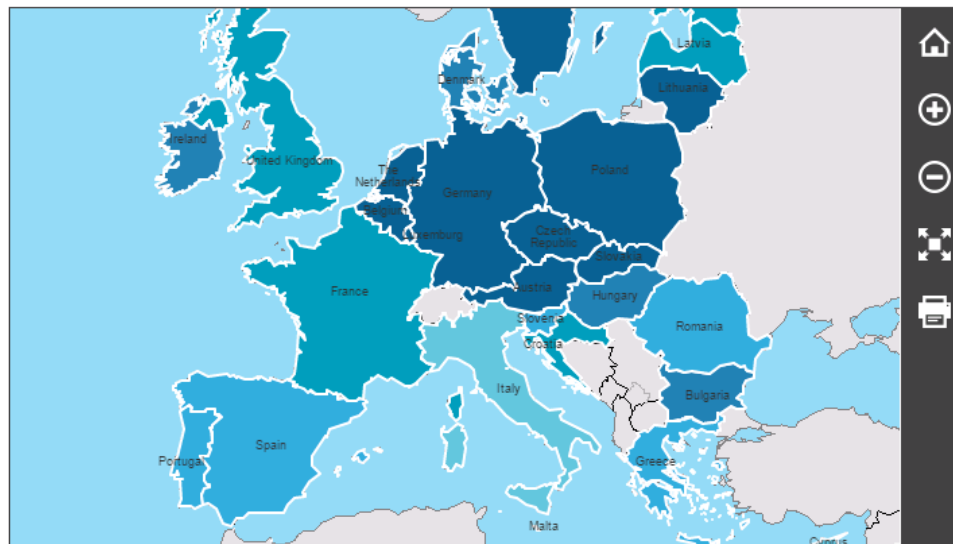
Energy market ▾

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Share of non-residential in total building floor area ⓘ

Year: 2013

[Export Data \(xls\)](#) [Sources & Notes](#)



Leaflet | @Eurogeographics, Credit: EC-GISCO, © EuroGeographics for the administrative boundaries

No values mean non-available or non-relevant information

Unit: %

Breakdown of building floor area

Copyright European Commission 2016



BUILDING OBSERVATORY - FACTSHEETS

EU Buildings Factsheets

Topics	Countries
Building stock characteristics	▼
Building shell performance	▼
Technical building systems	▼
Nearly zero-energy buildings	▼
Building renovation	▼
Energy consumption	▼
Certification	▼
Financing	▼
Energy poverty	▼
Energy market	◀
Energy market statistics	

Energy market statistics

Disclaimer: The graphs below show data available in the EU Building Stock Observatory: a country not represented only means data was not available for this specific country.

Liberalisation of energy market (electricity and gas)

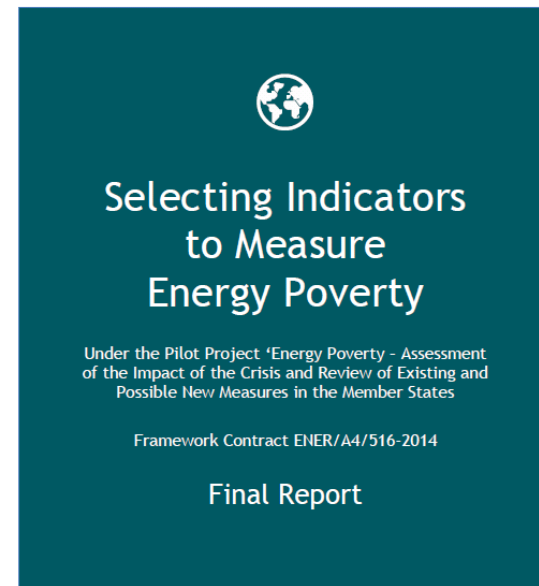
One of the main objectives of the EU energy policy is to ensure the functioning of the internal energy market. The milestones for the integration of the EU energy market were three liberalisation packages applicable to the electricity and gas markets, of which the latest was adopted in 2009. Despite this, the EU energy market remains rather fragmented into sub-markets with limited cross-border trade and competition, all coming as disadvantages for consumers.

Originally, energy supply was a natural monopoly comprising production, distribution and trading. Liberalisation separated these components and created regulation schemes for activities where the monopoly had to stay (typically transmission and distribution) and a competitive market for energy trading. The liberalisation process was typically gradual starting with large consumers. In spite of this, this process of liberalisation of the energy market is still not completed in the EU. Also, there is still a big difference in the regulation of energy markets among Member States. The 2014 Market Monitoring Report provides an assessment of the progress achieved by European countries with reference to the competition in electricity and gas markets. According to the report, European countries still have widely different retail regulatory frameworks, in particular with regard to price regulation and consumer protection. This in turn leads to different levels of market competition.

SELECTING INDICATORS TO MEASURE ENERGY POVERTY

- ➔ Energy poverty is a raising policy issue across the EU. To understand the extent and depth of the problem of affordability of energy services better indicators are needed. The report recommends four key indicators to measure the number of households in energy poverty. These indicators are tested and computed for the Netherlands, Slovakia, Spain and Italy using currently available data.

<https://ec.europa.eu/energy/sites/ener/files/documents/Selecting%20Indicators%20to%20Measure%20Energy%20Poverty.pdf>



➔ www.entranze.eu

ENTRANZE

*Policies to **EN**force the **TR**ansition to **N**early **Z**ero Energy buildings in the EU-27*

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Presentation of the Project

The objective of the ENTRANZE project is to actively support policy making by providing the required data, analysis and guidelines to achieve a fast and strong penetration of nZEB and RES-H/C within the existing national building stocks. The project has intended to connect building experts from European research and academia to national decision makers and key stakeholders with a view to build ambitious, but reality proof, policies and roadmaps.

The core part of the project was the dialogue with policy makers and experts and focused on nine countries, covering >60% of the EU-27 building stock. Data, scenarios and recommendations have also been provided for EU-27 (+ Croatia and Serbia), later EU-28 (+ Serbia). [Read more ...](#)

Data Tool

Interactive online **Data Tool** is accesible via this website.

An in-depth analysis of the structure and dynamics of buildings and related energy systems in EU-27 (+Croatia and Serbia).

Main deliverables

Laying down the pathways to nearly Zero-Energy Buildings. A toolkit for policy makers

- The report is available in section [Publications/Results, recommendations](#)

Policy scenarios and recommendations on nZEB, deep renovation and RES-H/C diffusion

- Reports for the 9 target countries are available in section

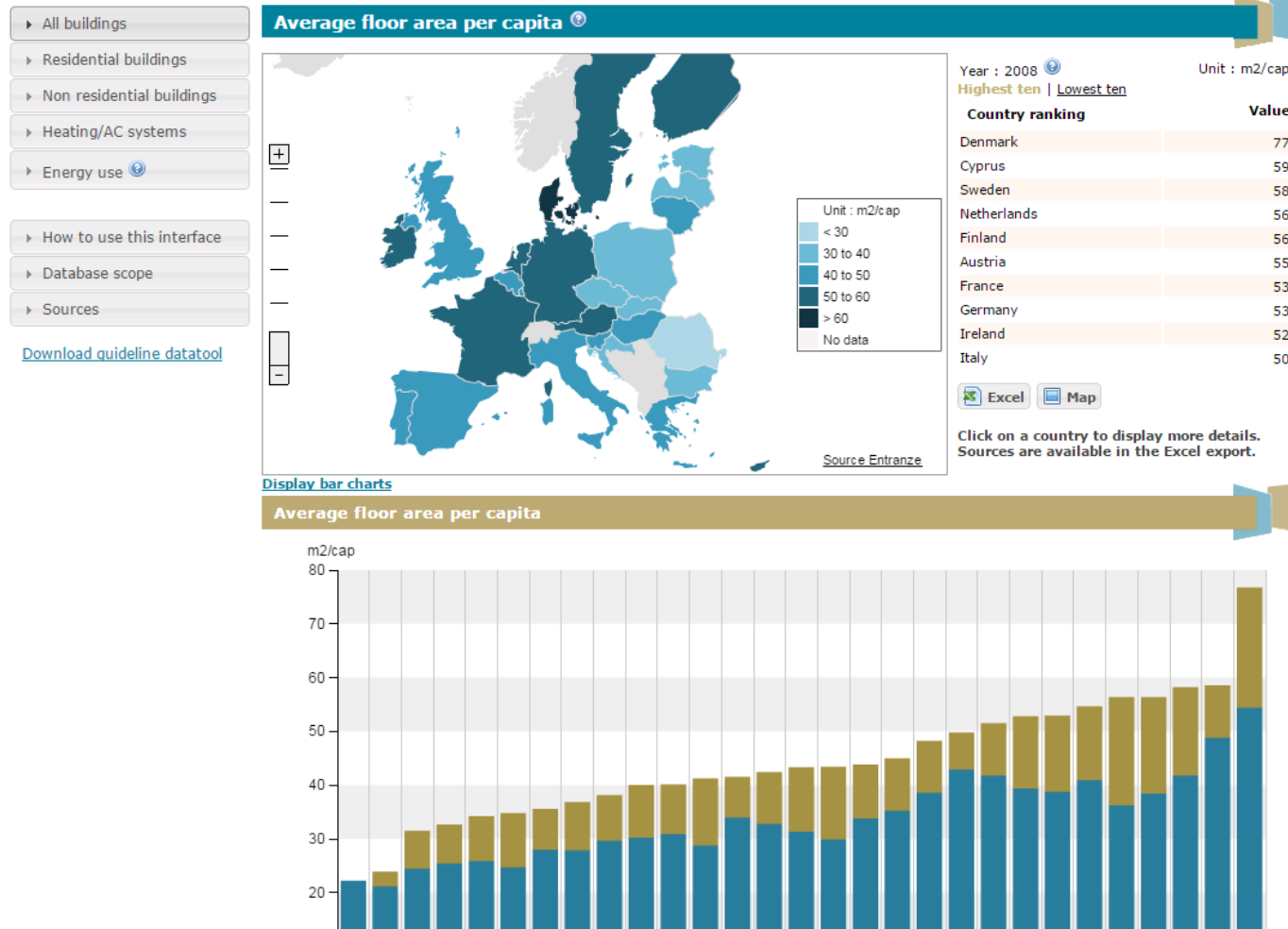
Scenario results

Online Scenario Results are available [here](#)

ENTRANZE



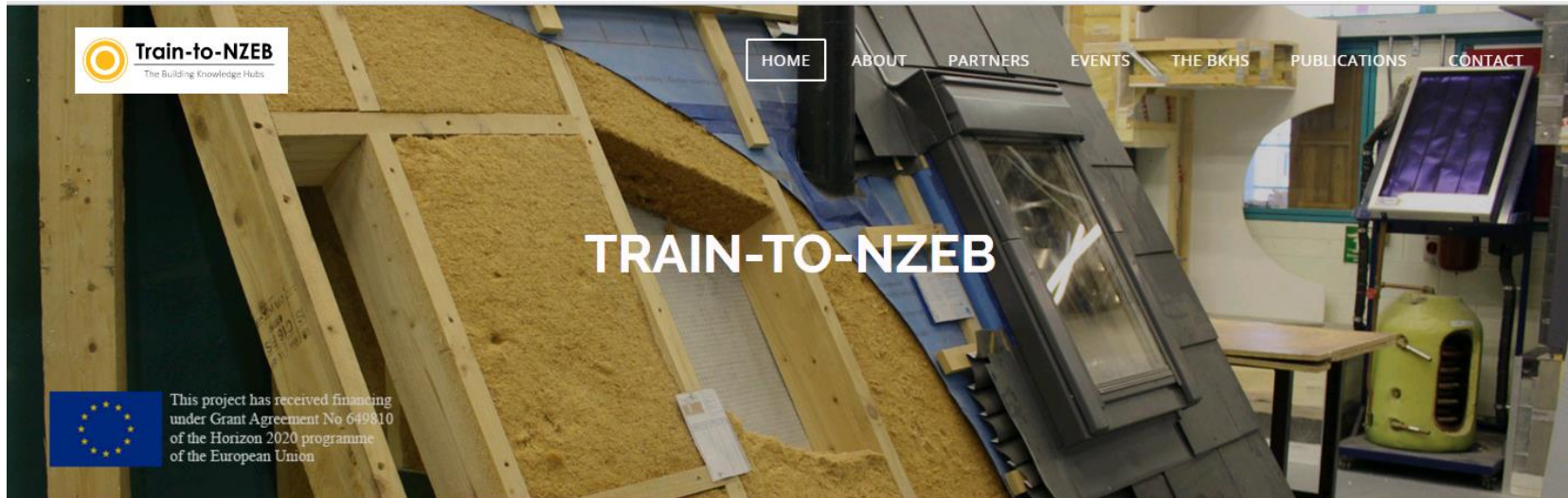
➔ Data tool



TRAIN-TO-NZEB



➔ www.train-to-nzeb.com



Train-to-NZEB: The Building Knowledge Hubs of Europe





It doesn't matter if you are a designer, a construction worker, a public official responsible for the city infrastructure, or you just want to build your new passive house: we offer trainings and advice especially for you. With our up-to date training programmes and materials coming from the world's leaders in sustainable building, you'll **learn** things for buildings you don't know yet. And with our new training facilities, demonstration tools and numerous partners from the



- ➔ **Education towards nearly Zero Energy Buildings (nZEB)**
- ➔ **Training courses for building workers**
targeting additional qualification of **2,400 trainees**
- ➔ **Training courses for architects, designers, building engineers, consultants and building managers**
targeting additional qualification of **480 trainees**
- ➔ **Training courses for non-specialists**
targeting additional qualification of **720 trainees**

➔ www.ingrees.eu



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Training system for engineers and construction professionals

in the area of energy efficiency and use of renewable resources in buildings

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OUR MISSION

Project ingREeS delivers the system of trainings for middle and senior level engineers and construction professionals in the area of energy efficiency and use of renewable resources in buildings in the light of achievement of the EU 2020 energy targets.

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Thank you for your attention!

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