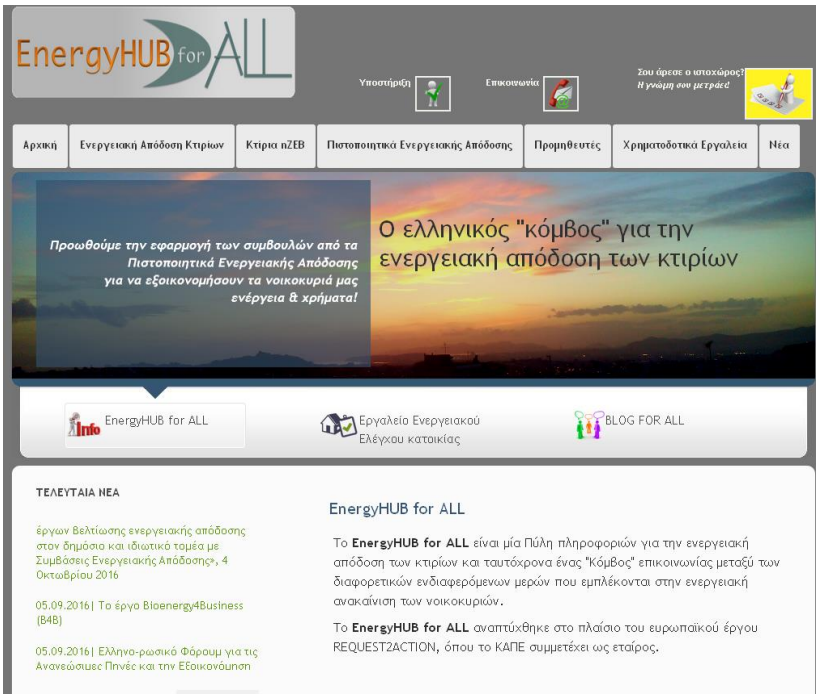
The Greek HUB: EnergyHub for All

The Greek pilot HUB is named “EnergyHUB for ALL” has been launched at the end of 2015 (see www.energyhubforall.eu/). It is a web platform which represents an interface between different stakeholders in the building sector, and serves as a market place to connect demand and supply side actors, as well as a meeting place and advice resource for refurbishment activities. “EnergyHUB for all” represents a tool in order to contribute to increasing trust and establishing a good reputation for the EPC systems among building owners, potential tenants and other market actors.

The main objectives of the Hub are:

- to serve as a market place to connect demand and supply side actors, providing a meeting place and information resource for building owners to engage with trades people and providers of finance for retrofit;
- to be conceived as a knowledge platform for key actors such as trades federations, financiers and policy makers;
- to be a monitoring platform for refurbishment activities.



Furthermore, the main key actors of the HUB platform are trades people /supply chain, home owners, policy makers, etc., and the relevant outputs for these target groups are:

- For trades people/supply chain: A database with companies providing energy efficient materials and systems is offered in the HUB platform, with the participation of Greek associations. This list is continuously updated and enriched. Also, trades people provide technical advice on adequate installation techniques.
- For home owners: A user friendly Home Energy Check tool allowing the dynamic modelling for the potential energy saving improvements is presented and also integrated into the HUB. Home owners have the opportunity to learn the energy consumption of their houses, as well as to find different ways to save energy for their home. Moreover, the Hub platform presents useful guidelines and tips for homeowners, in order to promote the EPCs recommendations.
- For policy makers: Address level data about the energy efficiency characteristics of homes, including EPC rating, implemented energy efficient measures, etc.

The Greek web - platform provides information on the latest energy efficiency guidelines, the energy performance in buildings, the nearly Zero Energy Buildings (nZEBs), statistics on EPC's, as well as useful information about the national and European funds, under the new program period 2014 – 2020 for energy. More specifically, "EnergyHUB for ALL" includes the following categories:

- **Energy performance of buildings**: This field provides the necessary information about the energy consumption in the residential building sector, the current situation of the building stock in Greece, as well as key policies and regulations (European directives, annual reports, etc) and the energy strategy for every energy intervention that can be implemented (thermal insulation, heating and cooling systems, solar collectors, windows, etc). This task is mainly focusing on householders/consumers and national policy makers.

- **Nearly Zero Energy Buildings**: Information is provided about nZEB characteristics, nZEB definition, European standards and roadmaps, and some successful stories according to EU projects results and national initiatives. This field is focused on national policy makers, and local authorities since: "member states should shall ensure that 1) by 31 December 2020, all new buildings are nearly zero- energy buildings, and 2) after 31 December 2018, new buildings occupied and owned by public authorities are nearly zero-energy buildings".

- **EPC's statistics**: This field has an important role for the "HUB", providing the EPC recommendations, and serve as a place to monitor the trends and actual implementation of EPCs recommendations in housing refurbishment projects. Taking into account the annual reports from the Ministry of Environment and Energy, the field presents a statistical analysis of the level of compliance with the certification (EPC distribution by building use, by energy class, issuing reason, etc), including also the legislation for energy label/certificate requirements, as well as a monitoring tool and statistical data provider on housing refurbishment. Monitored data about levels of refurbishment can be very valuable for the supply chain who wants to understand the characteristics of the market for low carbon refurbishments, knowing where (which homes/communities) to target with their communication and marketing.

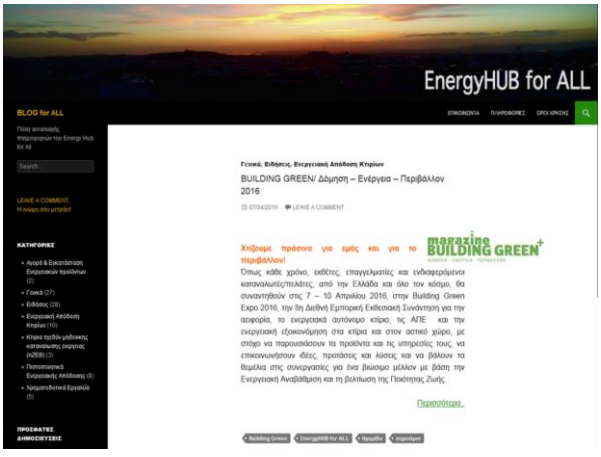
- **Search for trade people**: This field is an online web - platform for helping the householders and building owners to find professionals and trades people, for their home energy retrofits, such as: thermal insulation, solar collectors, windows, heating and cooling systems. In this case, necessary data from the associations/ supporters of the HUB are collected.

- **Funding:** This area provides with information on national and European funding programs (FTA), as well as European funding mechanisms and important initiatives like the Covenant of Mayors, etc. Different target groups can be informed about the current situation of the national funding programs related to EPCs refurbishment activities, as well as for the current open calls to submit funding proposals.

- **News/ Events**: This area includes the communication activities related to the energy efficiency in buildings, updated regularly, and mainly focusing on the general public.

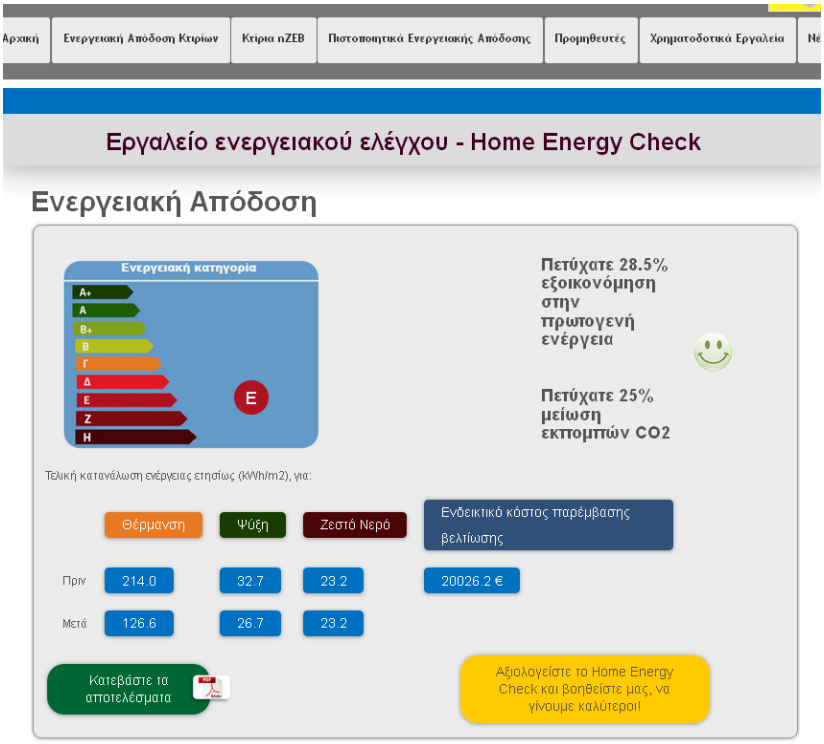
- **Support**: This field includes a list of SME's and associations who support the "EnergyHUB for ALL". Notably, the main supporter of the project is the Greek Ministry of Environment and Energy.

- **"EnergyHUB for ALL" Blog** area: This area represents a meeting platform for the building owners, trades people and developers, a communication platform to understand the benefits and the opportunities of EPC's recommendations, and offering important knowledge exchange for energy saving in dwellings and houses. The "Blog" includes seven different news categories, like general news related to the pilot HUB activities, news from the associations - supporters the "EnergyHUB for ALL", etc. Each new event contains a 'tag', in order to help the users to easily find the results of their search and leave a comment.



"Blog" area of the web–platform.

- **Home Energy Check (HEC) tool**: The HEC is a tool which addresses to all users who wish to be informed about the energy demand, rating and CO_2 emissions of their home. HEC is a friendly web - platform, an easy to use tool allowing the homeowners to simulate the energy behavior of their dwellings, through the input of the necessary characteristics typology, geographical area, characteristics of heating/ cooling systems, etc. requiring only a few input steps. In addition, the user has the opportunity to improve the energy efficiency, by changing the present situation of his home through various energy retrofitting alternatives for its building envelope materials, heating and cooling systems, application of Renewable Energy Sources systems, and see the results together with an indicative cost of the retrofit activities. The goal of the HEC use is to show the home/ building owner the benefits of energy renovation measures for his own property, and convince him to uptake such an investment. The tool has been developed on a three layer concept, the user-layout, the formatting and the calculations-application server layers, and the analysis platform is using the TEE KENAK software. The HEC tool is embedded in the front web-page of the "EnergyHUB for ALL" HUB. It is deliberately placed there so that the visitor, after the use of the HEC gets more information about the available energy efficient technologies, products, stats, energy savings.



HEC results page after the selection of energy efficiency measures.

The main objective of the HUB is to familiarize the user with the various available energy retrofit options and highlight the implementation of EPCs recommendations and energy savings achieved. The HUB intends to build bridges between government and key actors, to enable governments and energy agencies to act in a effective, targeted way to stimulate the market, and bring together the supply chain around EPCs.