



Project :

Build Des-HEP

*Buildings Design for new
Highly Energy Performing buildings*

➤ **Programme: HORIZON 2020**

- Pillar III : Societal Challenges

- Topic : Secure, Clean and Efficient Energy

➤ **Energy Efficiency Call 2016-2017**

- Chapter 3: Building

- EE – 13 – 2016 – 2017 Cost Reduction of Nearly Zero Energy Buildings

- Type of Action *CSA Coordination and Support Action*

- Deadline : *15 September 2016*

➤ EE – 13 – 2016 – 2017

Specific Challenge

- Increase the market uptake of NZEB;

Scope

- Develop a market ready cost reduction solutions to mainstream NZEB: the solution is likely to revolve around processes rather than technologies;
- Explore the cost-effective ways in which renewable energy production elements can be integrated into NZEB in a form that fits with the construction industry's design and procurement processes.

▪ EE – 13 – 2016 – 2017

Scope

- Apply cost reduction and energy saving solutions to the whole life-cycle of the building;
- Create proposal suitable for district contest, taking into account how buildings interact with each other in such situations;
- Monitor and explore solutions which improve the end user's experience of these buildings, contributing to a greater public acceptance;
- Contribution from UE between EUR 1 and 2 Million. (The overall budget allocated in the call to this specific topic EE – 13 amount to an average of 4 Millions);

▪ EE – 13 – 2016 – 2017

- Expected Impacts

- Measurable reduction of construction-related costs compared to the cost of a new conventional building;
- Measurable nearly zero (or beyond) energy consumption (including on-site or nearby renewable energy sources) and nearly zero impact of materials used over the whole life cycle;
- Demonstration of co-benefits which can have an impact on the real estate value of such building and on living/occupancy standards;

▪ Type of Action: Coordination and Support Action CSA

Actions consisting primarily of accompanying measures such as standardization, dissemination, awareness-raising and communication, networking, coordination or support services, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure and may also include complementary activities of strategic planning, networking and coordination between programmes in different countries.

Funding rate: 100%

Build Des-HEP Project

Buildings Design for new Highly Energy Performing buildings

According to the new EU's energy and climate targets we want, by Build Des-HEP Project, design a new method to reduce building related cost for NZEB in order to boost their market uptake and improve energy savings in the building sector.

In construction processes of NZEB several costs can be ascribed to the lack and to the asymmetry of information among workers as they are involved in different life-cycle phases; these situations need extra work and time to collect the information required to progress. Build Des-HEP wants to elaborate an innovative BIM based model which allow a smooth coordination among workers (Engineers/ Architects/Blue Collar) avoiding overlaps , increasing productivity and improving competences on energy efficiency. Further actions will be implemented to widespread awareness on NZEB benefits among customer and Public Administrations.

WORK PACKAGES

WP 1: Project Management

WP 2: State of the art

WP 3: Stakeholders Endorsment

WP 4: Knowledge Management System for Public Administration

WP 5: Knowledge Management System for Professionals

WP 6: Knowledge Management System for Customers

WP 7: Dissemination & Communication

WP 8: Capitalization



Build Des-HEP – Target Groups

➤ Target groups

- Public Administrations;
- Engineers and Architects;
- Installers and Maintainers;
- Customers;



Build Des-HEP - Partnership

➤ Partnership

Country-based partnership - Actors involved per each country

- **PROJECT PARTNERS:**

- 1) BUILDING SMART Chapter – National Organisation;
- 2) Scientific – Technological University or Research Center;

- **SUPPORT PARTNERS** (involved by Project Partners) :

- a. Representative Body of *local authorities* (ANCI in Italy);
- b. Representative Body of *architects/engineers* (CNI in Italy)
- c. Representative Body of *installers/maintenance workers* (ASSISTAL in Italy or ESCOs);
- d. Association for Social Promotion of housing, environmental and land issues (UNIAT in Italy);



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