

DEEP RETROFITTING (DR)

Standing the challenge of the strategic energy saving potential by improving the existing building stock.

To launch by 2020 100 Deep Retrofitting Sites (DRS) throughout EU and neighbouring countries, with at least 1 site per EU Member State. Of this figure, 50% of the sites should be in cities with <100,000 inhabitants.

WHAT?

A Deep Retrofitting site is composed of one or more buildings that will undergo transformations permitting either the division by three of their energy consumption/ CO2 emissions or to bring them to passive level (<50KWh.m²/year).

These buildings should be selected among different purposes (housing, offices, commercial spaces...) in order to test and illustrate a variety of solutions.



WHY?

This adaptable and integrated Initiative aims at boosting what is one of the most strategic actions to reach the energy saving objectives set at EU level. Indeed, the building stock is responsible of around 40% of the energy consumption and 40% of the CO2 emissions.

DRS particularly focuses on taking-up bioclimatic architecture, advanced materials, Information and Communication Technologies (ICT) with on-site renewable energy production. Aim of this Initiative is to improve the quality of life promoting, through the retrofitting of the buildings, citizen-oriented and sustainable solutions.



WHO?

This Initiative will be led by representatives from Cities (supported by representatives from the construction sector), with DRS being rolled-out on preferably central locations in cities.

Stakeholders with various backgrounds (companies, cities, consultancies, associations, research organisations) are also participating to the initiative.



HOW?

An integrated approach towards DRS may be taken: focusing on mixed-usage buildings (new built and retrofitted) with a strong emphasis on ICT solutions and involvement of both private and public sector stakeholders.

Financing may come from public and private investment by banks, industry, national funding schemes or EU schemes such as EIB, ERDF, Horizon 2020 (ensuring a due link with regional Smart Specialisation Strategies). Strong emphasis is put on sustainable business models and innovative financing like Energy Performance Contracting (EPC), renovation in occupied sites, the wooden attic concept, densification of surfaces, mutualisation of services between buildings.



ROADMAP

JAN – DEC 2017:
Identification of participating cities and other interested stakeholders (extendable process)

1

SEP – DEC 2018:
Launch of tenders for public parts and financial engineering of all projects

3

JUN 2019 ONWARDS
Works phase

5

JUL 2017 – JUN 2018:
Dialogue between interested parties to determine ToRs of each Project

2

JAN – JUN 2019:
Selection and approval of projects

4

DEC 2020:
Official opening of the EU DRS Network

6



MANAGEMENT TEAM

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European Innovation Partnership on Smart Cities and Communities