POSITIVE ENERGY BLOCKS

At least three connected neighbouring buildings producing on a yearly basis more primary energy than what they use.

To launch by 2020 the construction of 100 PEBs throughout EU and neighbouring countries, with at least 1 PEB per EU Member State. Of this figure, 50% of the PEBs should be in cities with <100,000 inhabitants.

WHAT?

A Positive Energy Block, PEB, is a group of at least three connected buildings producing on a yearly basis more primary energy than what they use.

These buildings must serve different purposes (housing, offices, commercial spaces...) to take advantage of complementary energy consumption curves and optimise local renewable energy production, consumption, and storage.

WHY?

This initiative will be led by representatives from cities supported by representatives from the construction sector, with PEBs being rolled out on preferably central locations in cities.

This initiative aims to represent the "seeds" for an urban regeneration for cities of all sizes and regions of Europe. PEBs, mainly focused on new build or existing buildings with take-up holistic architecture, advanced materials, information and communication technologies (ICT) with on-site renewable energy production (wind, geothermal, bioclimatic locally produced for cogeneration...). It will contribute to tackling local Climate/Environmental and economic challenges by promoting tailor-made sustainable solutions that will improve quality of life.

WHO?

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

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

HOW?

An integrated approach towards PEBs may be taken focusing on mixed-use buildings (new build 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 in banks, industry, national funding schemes or EU schemes such as EIB, ERDF. Horizon 2020 (includes a star lab with regional Smart Specialisation Strategy). Strong emphasis is put on sustainable business models and innovative financing like Energy Performance Contracting (EPC), mutualisation of services between buildings.

ROADMAP

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

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

JUL 2017 – JUN 2018: Dialogue between interested parties to determine T oRs of each project

JAN – JUN 2019: Selection and approval of projects

JUN 2019 ONWARDS: Works phase

DEC 2020: Official opening of the EU PEBNetwork

MANAGEMENT TEAM

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