



European Energy Network

The voluntary network of European Energy Agencies - at the heart of the clean energy transition

Name and Country of EⁿR Member

DENA - Germany



Name of Project/Programme & Link to website

EnergiesprongDE/ Market development for serial refurbishment in Germany

<https://www.energiesprong.de>
<https://www.energiesprong.org>

Description of Project

Energiesprong is a revolutionary, whole house refurbishment standard and funding approach. After an Energiesprong retrofit, a home meets a net zero energy standard, meaning it generates the total amount of energy required for its heating, hot water and electrical appliances – with no extra costs for the residents and very short renovation time. This can be achieved by using new technologies such as prefabricated facades, insulated rooftops with solar panels, smart heating, and ventilation and cooling installations. A refurbishment comes with a long-year performance warranty on both the indoor climate and the energy performance.

The first step is the joint development of prototypes which will show how serial refurbishment solutions can be implemented in Germany. In addition, we are aggregating demand and coaching frontrunners in order to kick-start the market for serial refurbishments/ Energiesprong-Solutions in Germany.

<https://www.nweurope.eu/projects/project-search/must-beo-multi-storey-building-e-o-refurbishment>

Aim/Expected Impact of Project

The overall outcome: The buildings refurbished via serial production differ greatly from existing refurbishment options due to lower costs, a short refurbishment duration, an appealing design, as well as a functional and savings guarantee. The homes are net zero energy, meaning they generate the total amount of energy required for heating, hot water and electrical appliances – with no extra costs for the residents and very short renovation time. Industrial manufacturing is generally conceivable for all building types. However, at the moment, the focus will be on the existing stock of housing companies (mostly apartment buildings) from the 1950s to 1970s. Within this range, there is a potential in Germany of 500.000 buildings or 3 Million apartments. In perspective, this approach can also be applied to other building types. Also, there is a close exchange between the market development teams from Germany, UK, France and the Netherlands. The common goal is to develop zero-energy renovation solutions for apartment buildings in north-western Europe. In these four countries alone there are around 43 million apartments that must be renovated over the next 30 years in order to achieve the EU climate targets for 2050.

Involvement of the Agency and Link to the EU Green Deal

Renovation Wave

DENA is hosting the market development team for EnergiesprongDE/ serial refurbishments and coordinating the



market development in Germany. Together with frontrunners from the housing & supply sector we develop a new standard and refurbishment approach. We intervene in the market by creating mass demand for this standard, increasing and improving supply capabilities, and tuning policy, regulation and finance to make a viable path to scale. By brokering large volume deals, we create the momentum needed for stakeholders to act simultaneously. This creates a viable market to entice suppliers to invest in digital off-site manufacturing.