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Horizonte 2020 Convocatoria Green Deal



Jornada Castilla y León, 10 de noviembre 2020

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Challenge

 The priority is the design and construction of new or retrofitting of existing buildings as zero-emission/zeropollution, positive energy-houses

Two major components in this transition:

- A transition in designing and constructing buildings to reduce their emissions and to increase the energy efficiency of their operation; the same for retrofitting existing buildings
- A transition to energy positive buildings (producing electricity, covering their heating and cooling needs and contributing to the energy grid stability) with renewable energy technologies







<u>Scope</u>

To deliver at least two (residential **and** non-residential, new **and/or** retrofitted) **large scale, real-life demonstrations** of promising <u>technology</u>, <u>process</u> and <u>social</u> innovation in different regions in Europe

- scalable design of green, positive energy neighbourhoods embedded in the context of the demonstration sites
- energy and resource efficient industrial construction/renovation workflows from design to manufacturing, installation and post-construction
- sustainable and highly energy-efficient building designs adapted to local environment and climatic conditions
- zero-emission and cost and energy efficient renewable energy generation in the buildings combined with urban service facilities (e.g. charging facilities) and heatingventilation-air conditioning solutions





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<u>Scope</u>

- energy storage systems (e.g. using second life batteries from electric vechicles) with bidirectional charging functionalities, that do not limit the use of living space
- highly energy-efficient building operation at reduced maintenance costs and long-term performance, as well as digital solutions
- citizens awareness raising activities to facilitate social innovation, promote education and training for sustainability conducive to good habits
- coordination on standards and regulatory aspects to ensure operational efficiency of buildings and HVAC
- From TRL 5/6 to TRL 7/8 (IA)
- ► Size of projects: 10-20 M€
- ► Total budget of the topic: 60 M€





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Impact

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- Primary energy savings triggered by the project (in GWh/year)
- Investments in sustainable energy triggered by the project (in million Euro)
- Reduction of GHG emissions towards zero for the total life-cycle
- Reduction of the embodied energy in buildings by 50%
- **Reduction of air pollutants** towards zero for the total life-cycle
- Demonstration of high potential for replicability
- Shortened construction/retrofitting time and cost by at least 30%
- Improved final indoor environment quality by at least 30%

Include relevant indicators and metrics with baseline values



Check "Call Conditions" p. 154-161 del WorkProgramme



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