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**Partner search**

**Date (DD-MM-YY)**

* **(\*) Indicate numbers of relevant topics for Green Deal call:**

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| **LC-GD-1-2-2020 : Towards Climate Neutral & socially innovative cities****LC-GD-1-3-2020 : Climate-resilient innovation packages for EU regions****LC-GD-4-1-2020 : Building and renovating in an energy and resource efficient way** |

* **Quick description of the project**

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| **(describe the objectives, activities, partners requested and their skills)** |

* **(\*) Do you intend to apply as ? :**

**Coordinator: ~~Yes/~~No**

**Participant: Yes/~~No~~**

**(\*) Either Description of the expertise requested (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| **Xxxxxxxxx****+ key words :**  |

**Or Description of the expertise proposed (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| * Comprehensive methodology
* citizens participations, social innovation and social entrepreneurship impact
* and local communities
* showcase testing of innovative solutions
* Support the European Green Deal targets
* Life Cycle Assessment;
* Reduction of the embodied energy in buildings
* Demonstration of high potential for replicability using new or existing innovation clusters incorporating the whole value chain;
* Shortened construction/retrofitting time
* Improved final indoor environment quality
* Contribute to the development and implementation of zero-GHG approaches in the building sector.

**+key words :** energy efficient buildings, energy performance, optimization, sensors, photovoltaics, participative planning and desing |

**Organisation information**

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| **Organisation and country:****University Centre for Energy Efficient Buildings, Czech Technical University in Prague** |
| **Type of organisation:****~~□ Enterprise □ SME~~ □ Academic □Research institute ~~□ Public Body □ Other: Association~~** |
| **Former participation in FP European projects?****□ Yes ~~□ No~~****CVUT UCEEB participated in:** **FP7 – MacSheep****H2020 – MORE-CONNECT, Powerskin+, SPARCS****Knowledge alliance – EURL3A** |
| **Web address:**[www.uceeb.cz/en](http://www.uceeb.cz/en)  |
| **Description of the organisation:**UCEEB is a modern research centre focused on implementing innovations in building and reconstruction of buildings and their energy efficiency. Main goal of the centre is to produce knowledge in the field of energy efficiency of buildings and implementing this knowledge in practice through close cooperation with industry and municipalities. The UCEEB houses more than 20 laboratories with state-of-the-art equipment. Laboratories are joined into five research programmes: * **Architecture and interaction with the environment**
	+ building envelopes, building physics and advanced material solutions.
	+ Development of structures and other products based on renewable and recycled materials,
	+ high-performance composite systems and components,
	+ prefabrication of energy-efficient buildings, new generation of prefabricated curtain walls
	+ build databases for a comprehensive assessment of the functional properties of buildings
* **Energy systems of buildings**
	+ new concepts of decentralised energy
	+ optimised renewable energy components for integration into building envelope
	+ innovative multi-purpose energy systems providing heat, cold and electricity, such as hybrid solar collectors and advanced heat pumps
	+ concepts of complex technical systems for efficient integration of energy sources into buildings and energy grids using intelligent control
* **Indoor environmental quality**
	+ development and design of advanced technical devices for provision of high-quality interior climate
	+ research and development of medical assistance systems for monitoring of biological and technical parameters in intelligent buildings
* **Materials and constructions**
	+ on research and development of materials and structures and analysis of their behaviour under normal temperatures and fire conditions
	+ low-energy materials, renewable materials (chiefly wood-based) and ceramic recycled materials for use in building structures and multi-purpose innovation materials
* **Control and Monitoring of Intelligent Buildings**
	+ Sensor networks design, development of unique and complete sensor systems,
	+ Long-term nondestructive diagnostics of structures for diverse materials
	+ Database systems - data storage and data presenting of buildings or industrial processes
	+ Implementation of systems that adapt the energy consumption according to the actual state and price of the grid or renewable sources available
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**(\*) Contact details**

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**(\*) –Mandatory**