

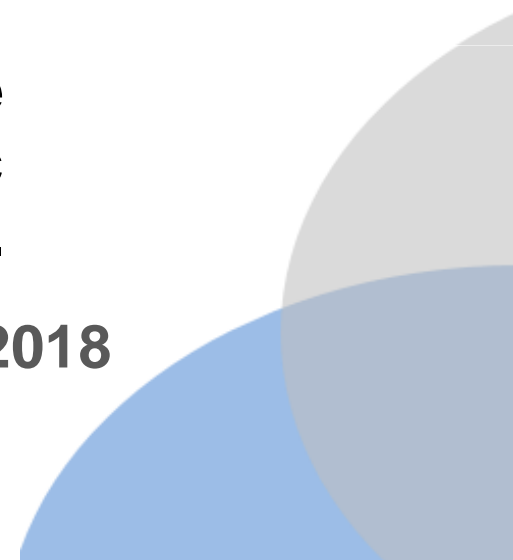


**Partnership of European Regions on Energy  
Efficiency in Buildings**

Interregional Pilot project Development and Interactive  
Discussion for next year

**Evaluation of the energy contribution of passive  
bioclimatic solutions to NZEB in different climatic  
zones of the EU.**

**Bilbao, 28th november 2018**



# Name of the partner

## New pilot project-idea

THEMES	Description
1. Reference theme	Bioclimatism
2. Action line	Energy contribution of passive bioclimatic solutions in Building
3. Name of offer of collaboration	Evaluation of the energy contribution of passive bioclimatic solutions to NZEB in different climatic zones of the EU.
4. Entity that presents the offer	FUNDACIÓN CIDAUT
5. Member of the Partnership that supports the offer	
Annex. Including data of the entity.	FUNDACIÓN CIDAUT. Centro de Investigación y Desarrollo en Transporte y Energía. <a href="http://www.cidaut.es">www.cidaut.es</a>

THEMES	Description
<p>1. SCOPE - Brief history of the project:</p>	<p>In the EU Interreg projects BIOURB and BOURB NATUR (<a href="http://www.biourb.net">www.biourb.net</a>), tools SCB cal-01 and SCB cal-02 have been designed to calculate the energy contribution of some bioclimatic solutions when they are applied to residential buildings (BIOURB) and tertiary buildings (BIOURB NATUR) in some specific climatic areas of Spain and Portugal. The scope of this new project would be extending these works to other European climatic areas, as well as new buildings and new solutions.</p>
<p>2. CURRENT MARKET AND POTENTIAL:</p>	<p>Existing bioclimatic solutions include some very suitable for sunny cold climates (trombe wall, solar wall, sunspaces), some other suitable for hot climates (shading, green wall, green rooftop, evaporative cooling) and other general solutions to all kind of climates (geothermal heating/cooling). Every solution must be applied in the appropriate climate and its energy contribution, also dependent on building characteristics , has to be properly evaluated.</p>
<p>3. ADDED VALUE SOUGHT BY THE COLLABORATION:</p>	<p>The developed results will be of great interest to architects and building companies, as a pre-design tool, in order to predict the effect of bioclimatic solutions on their NZEB buildings and pre-dimension them. It also would be of interest to the Public Administration in order to decide the amount of Aid Funds depending on the suitability of the solution to climate.</p>

THEMES	Description
4. ACTORS OF THE VALUE CHAIN:	The project implementation will require simulation programs (building energy and CFD) plus real buildings where demonstrate and assess the energy results. CIDAUT has broad experience in this kind of programs as well as in building monitoring.
5. REPLICABILITY:	Results can be adapted to all European Climates. There will be an specific program developed for every solution and every type of buildings. The introduction of different climate data to the developed programs will show te level of suitability of solutions to climatic areas.
6. OFFER OF REGIONAL SUPPORT (and in the case of their national or European entities):	The project might be supported by national or regional public funds (IDAE, CDTI, JCYL).