

# LIFE15 CCA/ES/000058 - SUSTAINHUTS

**PROJECT LOCATION:** Huesca

**BUDGET INFO:**

**Total amount: 1,860,914 €**

**% EC Co-funding: 60%**



**DURATION:** Start: **01/07/16** - End: **30/06/2020**

**PROJECT'S IMPLEMENTORS:**

**Coordinating Beneficiary:** Foundation Hydrogen Aragon

**Associated Beneficiary(ies):** Club Alpine Italiano (CAI), Environment Park (EP), Aragonese Mountaineering Federation (FAM), Alpine Association of Slovenia (PZS), Development Center for H2 Technologies of Slovenia (RCVT), Transilvania University Brasov (TUB), University of Ljubljana (UL)

## OBJECTIVES & SCOPE:

To achieve sustainable and nearly zero-emissions Mountain Huts (MH) in off-grid installations

- 1) Creation of a **resource assessment campaign** adapted to extreme mountain conditions
- 2) Design and simulation of environmentally friendly **off-grid renewable installations**
- 3) Design of a complete **off-grid hydrogen cycle**
- 4) Integration of **innovative and alternative technologies** in MH
- 5) Selection and installation of new generation **insulation materials**
- 6) **Demonstration** of operation of 9 zero-emission demo huts in 4 European countries
- 7) Development of **Life Cycle Assessment** (LCA)
- 8) **Replication** of results to other mountain areas
- 9) To reach high project **impact** at national & international scope
- 10) To continue with exploitation of results and visibility of the project (**After Life plan**)

# EXPECTED IMPACTS

Lizara	Bachimaña	Estós	La renclusa	Cap de Llauset	Doftana Valley	Rifugio di Torino	Pogačniko v dom	Kocbekov dom
1540 m	2200 m	1890 m	2140 m	2450 m	800 m	3375 m	2050 m	1808 m
ES	ES	ES	ES	ES	RO	IT	SI	SI

21% t/y and hut of CO<sub>2</sub> avoided  
 0,5 t/y and hut of NO<sub>x</sub> avoided  
 20% energy reduction in each hut  
 3 helicopter trips per year reduced  
 1 t/y and hut of kerosene avoided

4 workshops in different EU countries  
 2 networking events  
 Guided visits to demo huts  
 4 brochures to raise awareness  
 4 general and 3 technical guidelines  
 1 recommendation guideline for authorities

## POLICY IMPLICATIONS

*Please highlight the main policies targeted and indicate if applicable the expected contribution of your project to implementation, design or take-up of regional, national or European policy initiatives.*

- 1) It contributes to the roadmap for moving to a low-carbon economy in 2050, by decarbonising mountain areas.
- 2) Directly associated with the 20% improvement of energy efficiency target
- 3) Aligned with the Directive 2009/28/EC on the promotion of the use of energy from renewable resources
- 4) The guidelines that will be available at the end of SUSTAINHUTS will lay foundations of a model for other off-grid constructions, not only huts, but also communication towers or remote installations for example.

Thank you  
very much for  
your attention

