# 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)



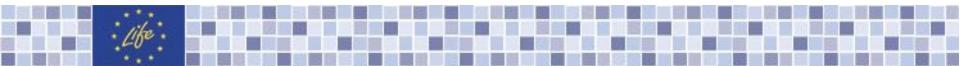


## **OBJECTIVES & SCOPE:**

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 **<u>off-grid hydrogen cycle</u>**
- 4) Integration of **innovative and alternative technologies** in MH
- 5) Selection and installation of new generation *insulation materials*
- 6) <u>Demonstration</u> of operation of 9 zero-emission demo huts in 4 European countries
- 7) Development of Life Cycle Assessment (LCA)
- 8) <u>Replication</u> 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**



21% t/y and hut of CO<sub>2</sub> avoided
0,5 t/y and hut of NOx 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



LIFE15 Kick-off Meeting, 04-05 Oct 2016, Brussels

Pedro Casero, Innovation Project Manager

# **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.







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