

# LIFE SustainHuts

## Sustainable Mountain Huts in Europe



**WORKSHOP**

Is it possible to  
achieve sustainable  
huts in Europe?

**5 OCTOBER**  
10 am a 12 pm



SustainHuts





To improve the sustainability of mountain huts through renewable energy integration, energy efficiency and insulation.



11 European huts involved in 4 different countries (hydrogen storage system in one hut).



Replication in other isolated systems in Europe



↓ 10 t/y per hut  
CO<sub>2</sub>

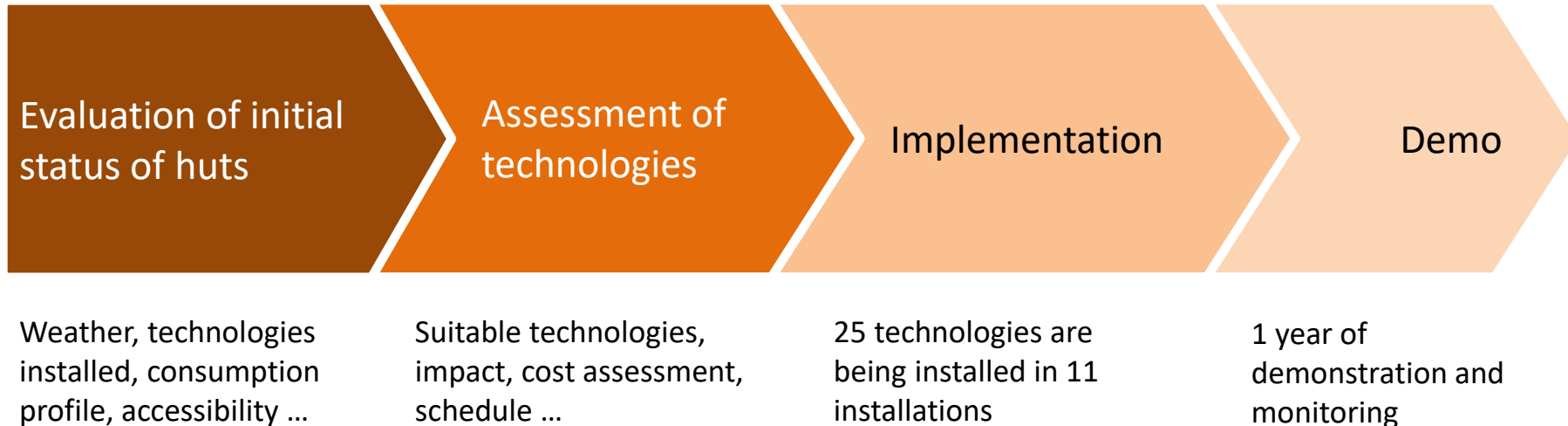
↓ 20%  
Energy

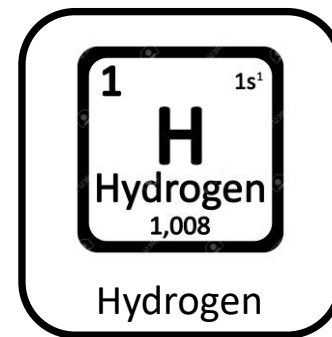
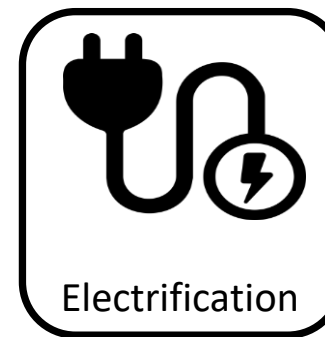
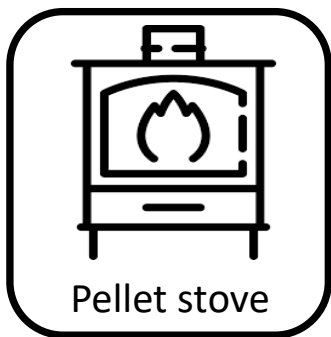
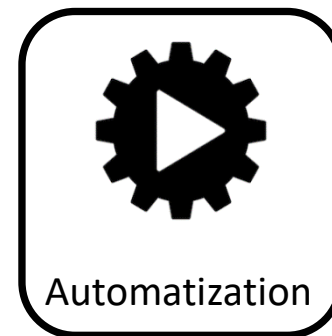
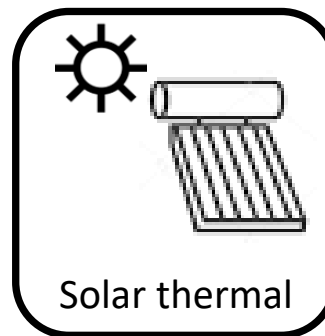
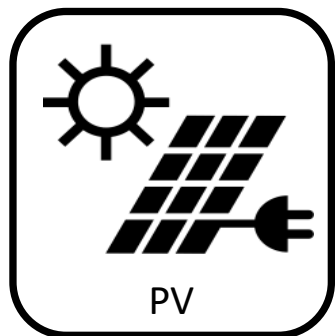
↓ 1.5 t/y  
Kerosene

This project is financed with European Union LIFE programme, under the agreement nº LIFE15 CCA/ES/000058



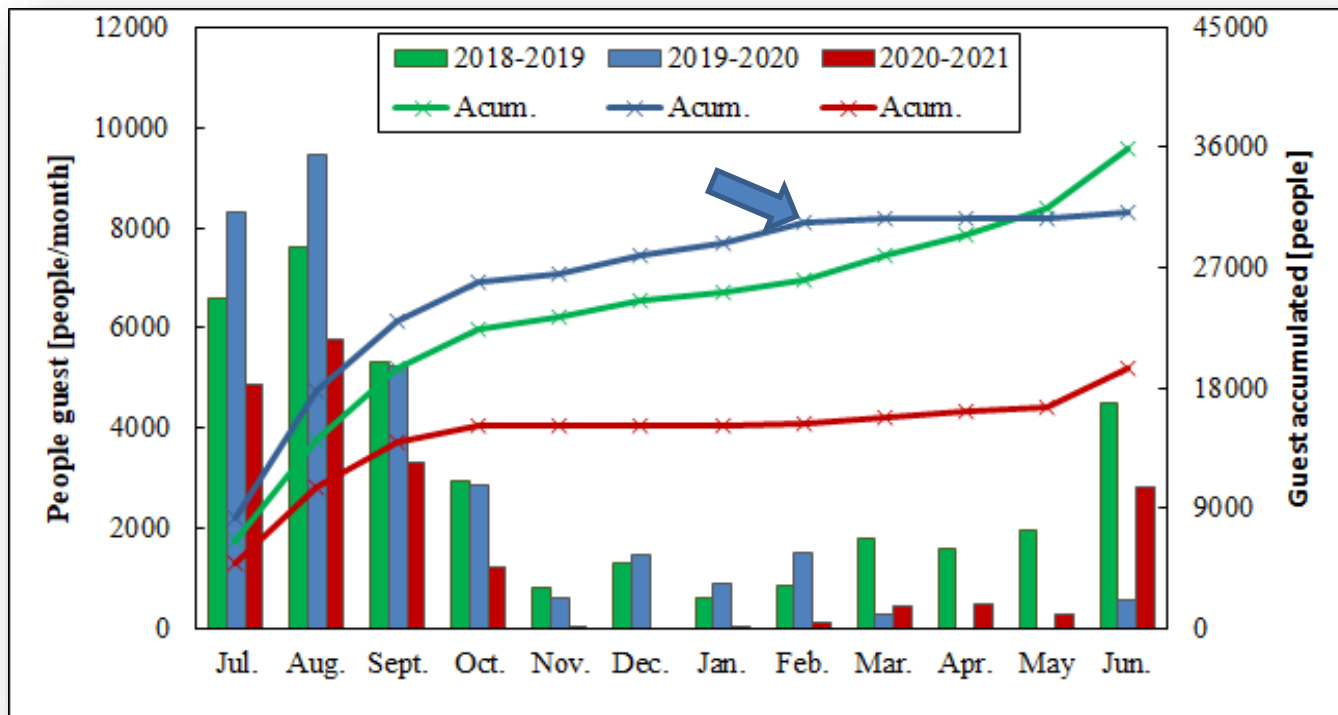






- ✓ One partner **withdrew** after some months -> replaced by FFCAM
- ✓ Slovenian hut **destroyed by fire** with the technologies installed
- ✓ Each technology at different **pace**
- ✓ **Opening periods and weather** affected all the phases
- ✓ COVID-19 caused **delays** in the technologies to be installed and **distorts** the monitoring

Visitors in Spanish huts distributed per month & accumulated



Thanks to LIFE SUSTAINHUTS, the polluting emissions of 11 mountain huts in Spain, Italy, France, and Slovenia are reduced.

In total, the project manages to **reduce, on average, 10 tonnes of CO<sub>2</sub> per year and hut, equivalent to the CO<sub>2</sub> absorbed by approximately 16,500 trees.**

Gracias a LIFE SUSTAINHUTS se reducen las emisiones contaminantes de 11 refugios de montaña en España, Italia, Francia y Eslovenia. En total el proyecto logra reducir, de media, 10 toneladas de CO<sub>2</sub> por año y refugio, equivalente al CO<sub>2</sub> absorbido por, aproximadamente, 16.500 árboles.



## This is a sustainable hut

### Este es un refugio sostenible

- 1 Lizara 1540 m
- 2 Bachimaña 2200 m
- 3 Estós 1890 m
- 4 Góriz 2200 m
- 5 Cap de Llauset 2425 m
- 6 Montfalcó 790 m
- 7 Dent Parrachée 2520 m
- 8 Torino 3375 m
- 9 Kocbekov 1808 m
- 10 Pogačnikov 2050 m
- 11 Valentina Staniča 2332 m

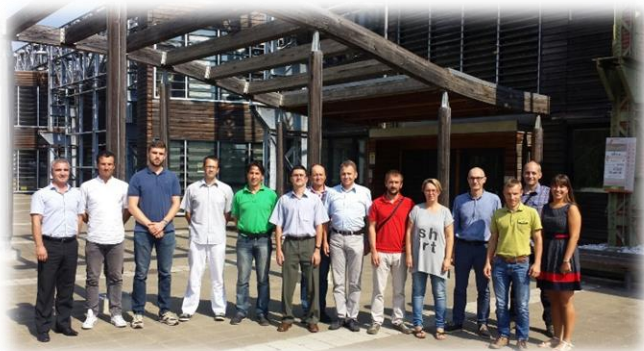


LIFE15 CCA/ES/000058 | The LIFE SustainHuts project is financed by the EU LIFE Funding programme. | El proyecto LIFE SustainHuts está financiado por los fondos de financiación de EU LIFE.

LIZARA		
1540 m	PIRINEOS	
	<b>ADVANCED AUTOMATION AND EFFICIENCY</b> Automatization of the batteries charging and generator start up AUTOMATIZACIÓN Y EFICIENCIA ELÉCTRICA Automatización de carga de baterías y arranque de generadores	
	<b>THERMO-CHIMNEY</b> Installation of a high efficiency chimney TERMOCHEMINEA Instalación de chimeneas de alta eficiencia	
	<b>PHOTOVOLTAIC</b> Renovation and enlargement of the PV installation FOTOVOLTAICA Renovación y ampliación de instalación fotovoltaica	
	<b>H2 STORAGE</b> ALMACENAMIENTO DE HIDRÓGENO	
	<b>INSULATION AND ENERGY EFFICIENCY</b> AISLAMIENTO Y EFICIENCIA	
	<b>ELECTRIFICATION</b> ELECTRIFICACIÓN	
	<b>PELLET STOVE</b> ESTUFA DE PELLETS	
	<b>WATER TREATMENT PLANT</b> PLANTA DE TRATAMIENTO DE AGUA	
	<b>HYDRO TURBINE</b> HIDRÁULICA	
	<b>MICRO-WIND</b> MICRO-EÓLICA	
	<b>WOOD STOVE</b> ESTUFA DE MADERA	
	<b>SOLAR THERMAL PANELS</b> PANELES SOLARES TÉRMICOS	

WHAT TECHNOLOGIES MAKE THIS HUT SUSTAINABLE? | ¿QUÉ TECNOLOGÍAS HACEN ESTE REFUGIO SOSTENIBLE?







## The SustainHuts project received the award for the most energy efficient project

September 30, 2021 fha News

In the category of energy efficient projects 2021 23. Energy Days, Energy Awards of the Finance Newspaper the LIFE Sustainhuts project received the first prize according to the expert commission. Within the project, we combined the knowledge of the Faculty...

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