SUSTAINABLE PLACES 2022

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RHC for Buildings and Industry

"Renewable Heating and Cooling Solutions for Buildings and Industry – 3rd Edition"

SEP. 6TH – SEP 9TH, 2022 NICE, FRANCE

SUSTAINABLEPLACES.EU

VILLE DE NICE

MÉTROPOLE NICE CÔTE D'AZUR

Serena Scotton, Project coordinator, RINA Consulting spa

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 818329

Our vision and objectives

SunHorizon

The SunHorizon Technology Packages (TP) aim at covering at least 80% of the Heating & Cooling needs of refurbished and new single/multi- family/tertiary buildings.

Demonstrate up to **TRL 7** innovative and reliable HP solutions that acting properly coupled and managed with advanced solar panels can **provide heating and cooling to residential and tertiary building with lower emissions, energy bills and fossil fuel dependency**.

- Increase SunHorizon H&C technologies performances
- Promote cloud based functional monitoring for H&C purposes
- Reduce SunHorizon H&C technologies CAPEX and OPEX
- Demonstration of SunHorizon Innovations indifferent EU countries and type of buildings
- Promote the replication of SunHorizon Concept
- Dissemination and Capacity Building

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Consortium

An Industry driven Consortium:

- 5 top-level Academic Polytechnic Institutions
- 12 industrial partners:
  - 5 Large Enterprise (LE)
  - 7 Small and Medium Enterprises (SMEs)
  - 4 associations and stakeholders acting as demo site

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SunHorizon TPs

SunHorizon

The demosite needs, are supplied with 5 different technology combinations, that combines the following technologies:

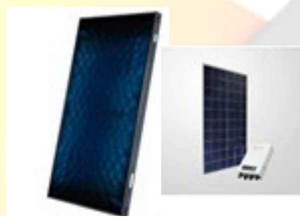
Heat pumps

FAHRENHEIT
Cooling Innovation.

BDR THERMEA GROUP

BOOSTHEAT
ENERGY UNITES PEOPLE

Solar technologies



BDR THERMEA GROUP

DUALSUN

Storage

ratiotherm

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Needs

Space cooling

Space heating

5 technology packages

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SunHorizon: Demosites

Nº	Location	Climate	Building type	SunHorizon TP
1	Berlin (Germany)	Cold	Small residential	**TP1**: TVP+BH
2	Nürnberg (Germany)	Cold	Large residential	**TP2**: DS+BH
3	Saint Cugat (Spain)	Warm	Tertiary (Civic centre)	**TP3**: TVP+FAHR
4	Madrid (Spain)	Average	Large residential	**TP4**: DS+BDR
5	Cluj-Napoca	Cold	Dormitory	**TP1:** BH+TVP+DS
6/7	Riga (Latvia)	Cold	Small residential	**TP2:** DS+BH

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