

# SAVE TODAY, USE TOMORROW!

Thermal Energy Storage Systems 28th February 2019, Wels (Austria)



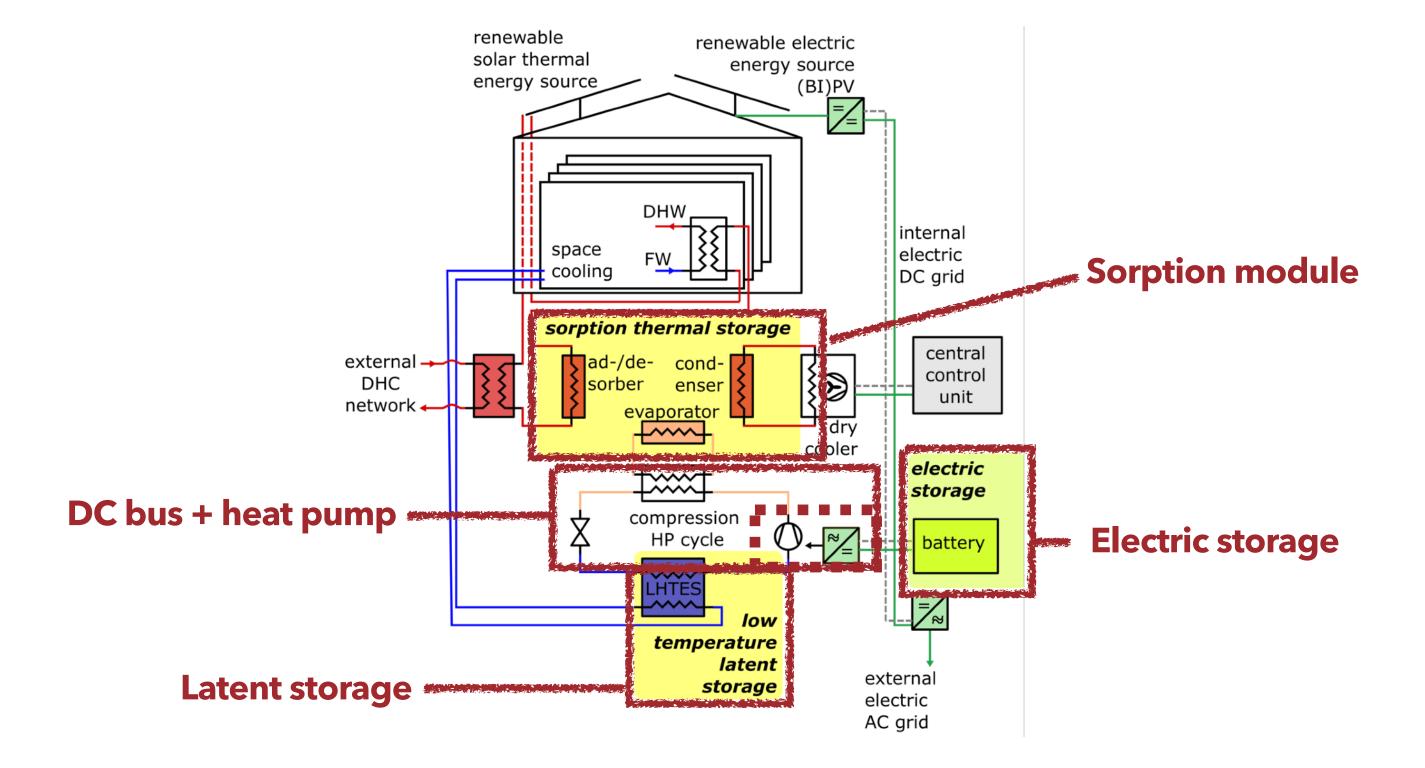
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### INTRODUCTION

HYBUILD is a four-year project that started in October 2017, with an overall EU contribution of 5,995,840 € in the framework of the H2020 programme. The consortium consists of 21 partners form 9 European countries coordinated by COMSA. HYBUILD will develop two innovative hybrid storage concepts: (1) For the Mediterranean climate primarily meant for cooling energy provision; (2) For the Continental climate primarily meant for heating and DHW production. The hybrid storage concepts are based on innovative components such as a compact sorption module, a high-density latent storage, reversible vapour compression heat pumps and a DC-bus interconnection. The whole systems will be properly managed by advanced controls and Building Energy Management Systems (BEMS). The developed solutions will be validated in three different demo-sites located in France, Spain, and Cyprus.

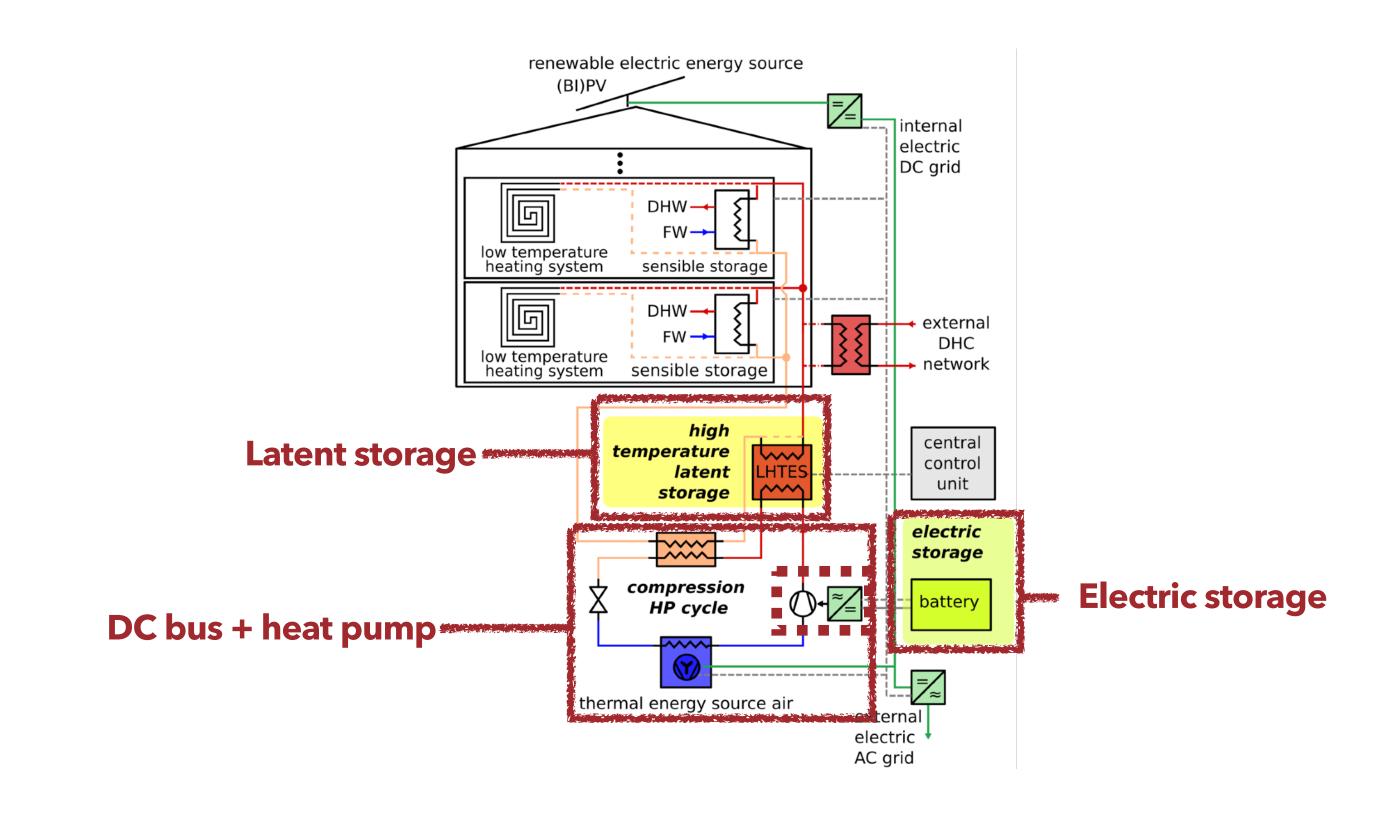
#### MEDITERRANEAN CONCEPT

Implementation of Fresnel solar collectors and PV panels connected to an innovative DC-driven heat pump that integrates a sorption and a latent thermal energy storage, and an electric energy storage. Main objective is to provide cooling in Mediterranean climate residential buildings.

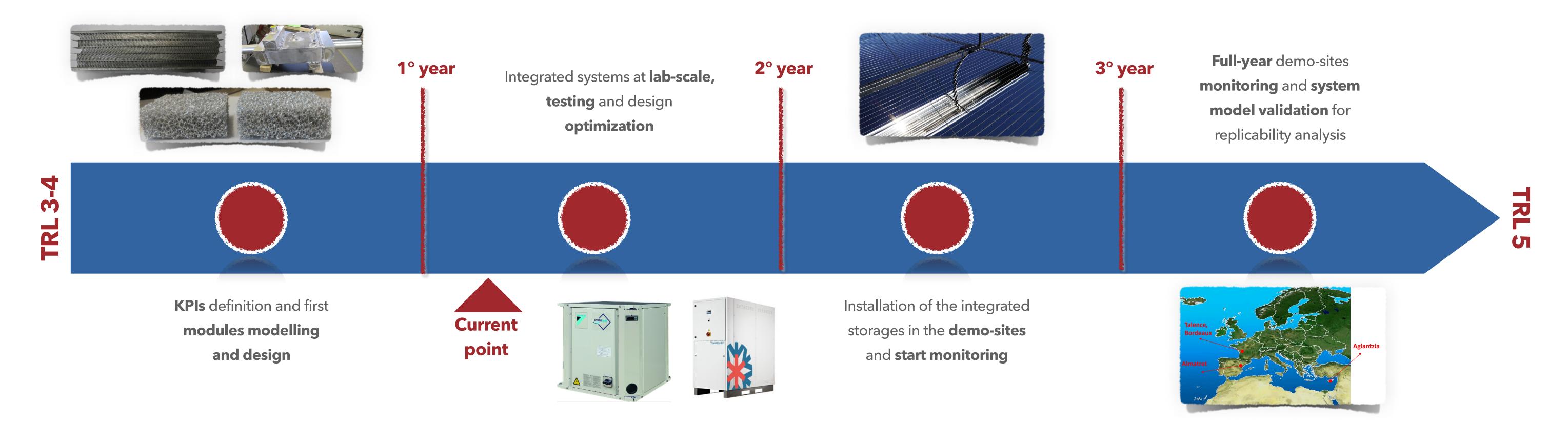


#### **CONTINENTAL CONCEPT**

Implementation of PV panels connected to an innovative DC-driven heat pump that integrates a latent thermal energy storage and an electric energy storage. Main objective is to provide heating and DHW in Continental climate residential buildings.



## **IMPLEMENTATION**























































**Aglantzia** Cyprus



**Almatret** Spain













