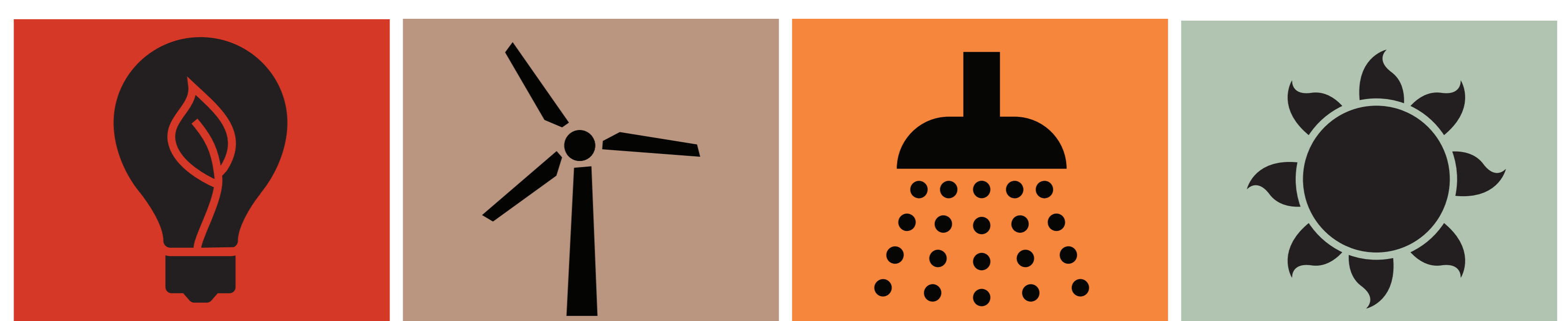




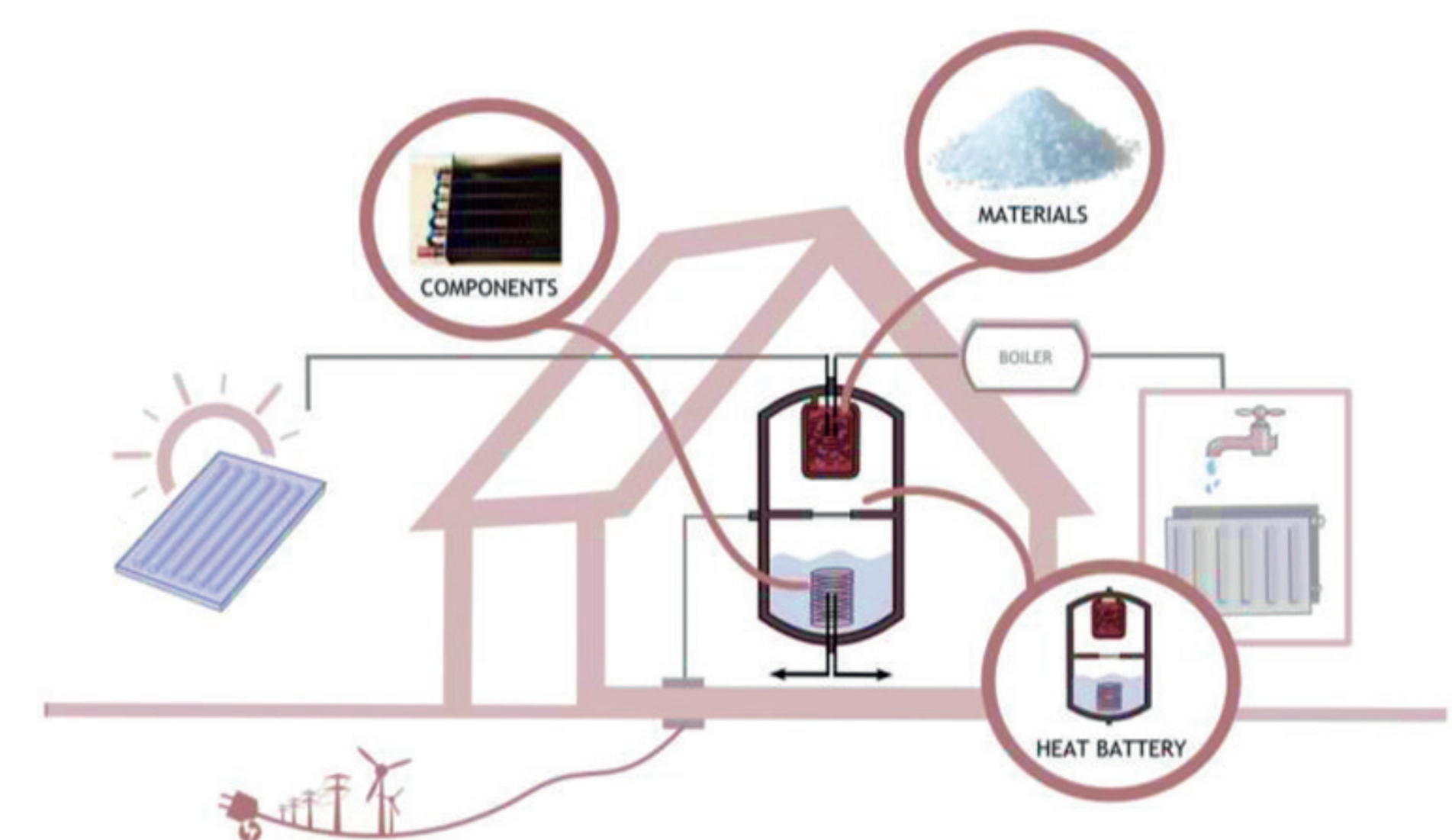
# CREATE<sup>©</sup>



## Compact **R**etrofit **A**dvanced **T**hermal **E**nergy storage

An economically affordable, compact and loss-free heat battery for existing buildings.

The **CREATE** system is an advanced thermal storage system based on **Thermo-Chemical Materials** (TCMs), that enables economically affordable, compact and loss-free storage of heat in existing buildings. The system consists of several storage modules containing salt, which is hydrated (charged) in summer and dehydrated (discharged) in winter.



Schematic of the CREATE concept

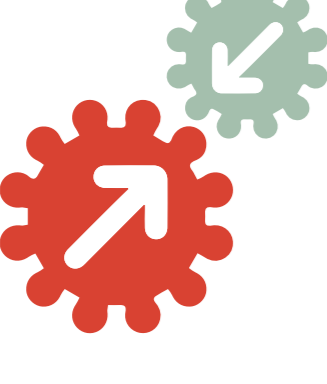




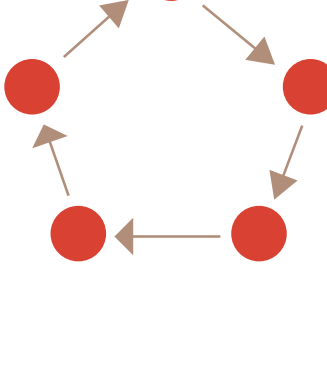


The intermediate form of the composite salt



The final shape used in the 1 kg reactor which will be used in the CREATE system

### CREATE is focusing the following sub-objectives:

-  **Stable & compact materials**
-  **Efficient and high power energy discharge**
-  **Long lifetime**
-  **Safe and reliable operation**
-  **Affordable technology**
-  **Future value chain**

### DEMONSTRATION

MOSTOSTAL will install a full scale solar TCS system delivered by the CREATE project in Warsaw, Poland. The system will be installed into a orphanage where a land climate delivers cold winters and warm summers.

### PARTNERS



Orphanage (provided by MOSTOSTAL by courtesy of the City of Warsaw)



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