

# Accelerating the Heating and Cooling Transition



Joint Call 2021  
Kick-off meeting of granted projects

Project presentation pitch

17 November 2021



# Sorption Thermal Energy Storage SorpTES

Pilot test of a thermal energy storage system for the built environment

# Intro

- Tim Rutten. Director @ARES.
  - Bsc Mechanical Engineering
  - Msc Business Administration
  - 25 years in energy market
  - 15 years in R&D consumer products



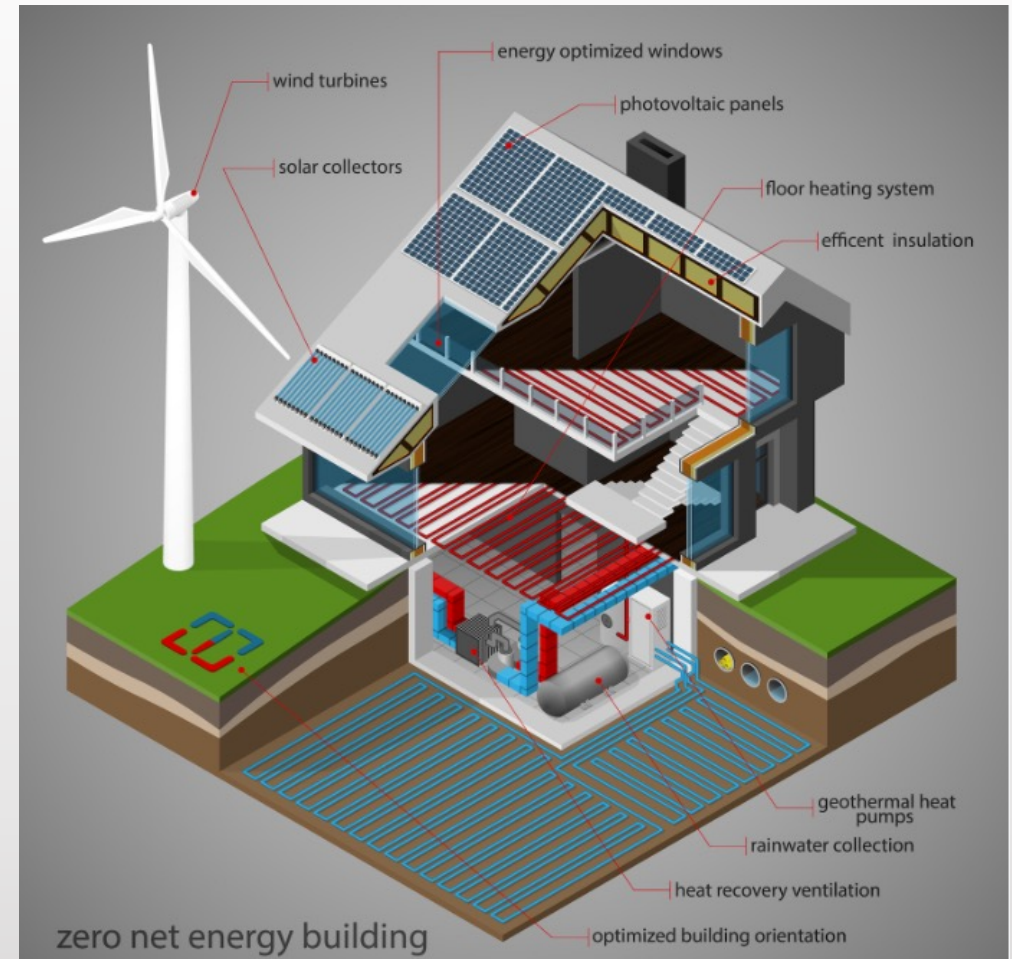
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# Challenge you are tackling

- Zero-net energy building;
- Transition from fossil fuel to renewable
- Difficult to implement in area's with old buildings and high density.
  - High energy demand
  - Capacity electrical power grid limited
- Local (decentralized) energy storage needed for transition.



# Thermochemical heat pump

- System easy to integrate in current installations
- Simple design and production process
- High energy density (4-5 times higher than water)
- Loss-free energy storage
- Raw materials are available at low cost.
  
- Built pilot production line;
- Test samples in operational conditions;

