

# REGEN<sup>2</sup>by

## Impact of REGEN-by-2

New EU technology that will be at the backbone of the energy system in 2050

Provision of energy via different vectors to users with various levels of energy use

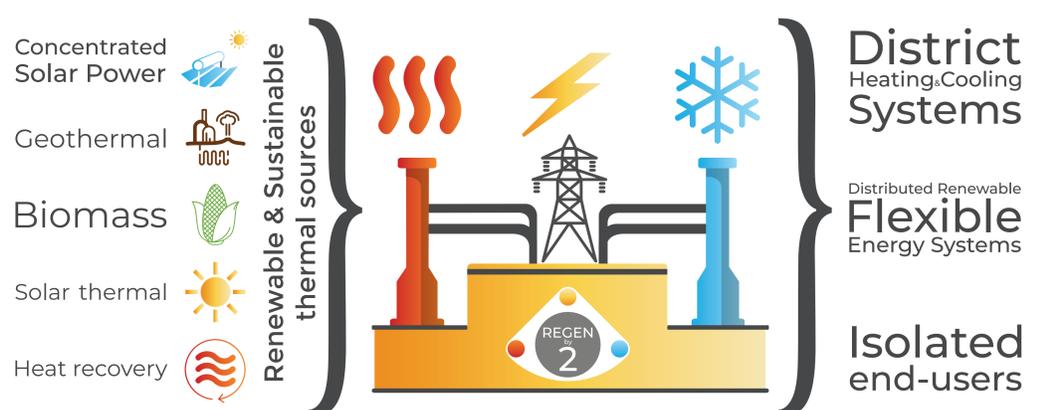
Up to 50% more efficiency in electricity production than baseline technology

## What

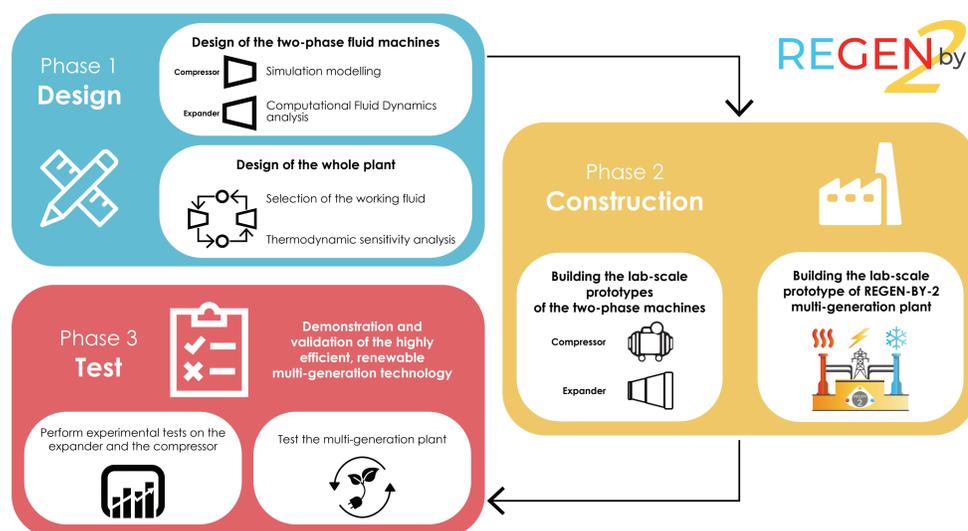
REGEN-BY-2 is developing a revolutionary machine that exploits renewable thermal resources, many of which are usually wasted, and valorise them to produce flexible electricity, heat and cooling

REGEN-BY-2 works with any type of renewable thermal energy: CSP, solar thermal, biomass, geothermal, waste heat recovery.

The machine has been patented by parter TIFEO who is fully involved in the project developments



## How



To build this first of its kind prototype, REGEN-by-2 will follow three steps in the development process:

A. Design: all the key components from regen-by-2 need to be designed from scratch specifically for this purpose since there is nothing alike in the market

B. Construction: once design is complete, the construction phase of the components up to the final assembly of the machine will take place

C. Test: here is where the projects will validate if the initial calculations and estimations are valid during operation of the machine

[www.regen-by-2.eu](http://www.regen-by-2.eu)

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