

How I DECARBONIZED my house.....

When you project and materially build a house, there are 1000 conjectures and variables to analyze and you have to decide how to power it energy wise. In 2000 I thought of an electrical group powered by methane but then, as you know, things changed and I came up with a project that seemed innovative 20 years ago: decarbonize my house waiting for the CCS Turbine. Time passed but giving up holiday trips and other sacrifices, here I am with the project completed and a lot of satisfaction....ignoring all my colleagues who laughed at my expense.

The project is simple but it took a while to have a photovoltaic system, a thermal and electric one and wood all working together; I was lucky enough to find capable artisans (plumbers, electricians) who helped me and worked on the systems...thanks to them who committed on this project.....

The overall system serve 2 apartments and it consists of an integrated thermal system with electric coil, a photovoltaic system and an hanging fireplace that produce sanitary hot water during cold seasons. Electrical resistance for the production of hot water during the Winter is quite costly hence the benefit to have hot water using the wood thermal energy.

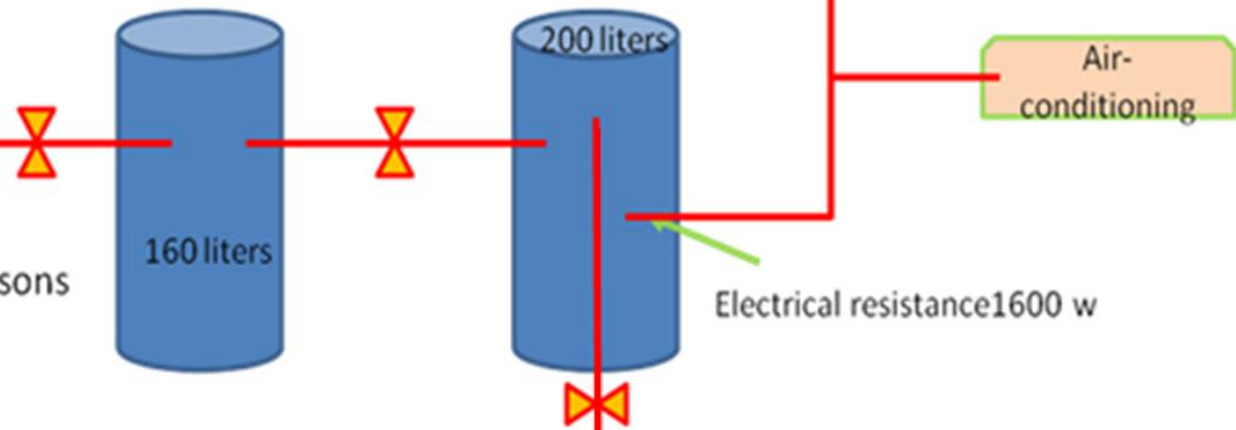
SYSTEM SCHEME LEGHI A.
House decarbonization
Designed 2000 upgraded 2021-2022



Thermal panel



Photovoltaic panel



Electrical resistance 1600 w

Complete system scheme for 4 seasons
Tanks can be separately regulated
During mid-seasons - for 8 people

Sun during Summer and Spring, wood during Winter
w/ a supplementation of electric energy if needed
Remember electrical resistance consumes a lot during Winter.....
Using wood will grant you a sizable saving in your electric bill

