

PARTNERS



STUDIO FIESCHI
& SOCI



CONTACT

ORESTE BOTTARO

Project Coordinator

info@innovaenergie.com



www.lifezerogwp.eu

 **LIFE
ZEROGWP**

The first double duct residential air conditioner
with near-to-zero Global Warming Potential
natural refrigerant



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PROJECT OBJECTIVES

Hydrofluorocarbons (HFCs) refrigerants are used in a wide variety of HVAC&R equipment. HFCs when released to the atmosphere have significant **Global Warming Potential (GWP)**.

The goal of ZEROGWP project is to demonstrate the **technical feasibility**, **full safety** and **commercial viability** of an innovative monobloc residential air to air heat pump, called **Double Duct (DD) technology**, that can be charged by natural refrigerant with unprecedented **environmental performance**.

Refrigerant **R290 (propane)** has **near-to-zero GWP** and it is an **excellent alternative** to be used in small hermetic systems, like residential air conditioners.



THE PRODUCT

SIMPLE

it can be easily installed even by inexperienced operators

SAFE

it uses natural refrigerant in an airtight circuit

EFFICIENT

it uses renewable energy, it does not emit CO₂



It is the best solution for Decarb Heating and Cooling in houses and the best solution for urban requalification thanks to the absence of any external units.

EXPECTED RESULTS



To define the **optimized design** of the dd-ac r290 system configuration and industrialize its production.



To demonstrate the product technical performance and its superior **environmental performance**.



To prepare a business plan for **product industrialization** and commercial exploitation of this new air conditioner.



To help **filling the gaps** in the regulatory scenario.



Traditional refrigerant systems



LIFE ZEROGWP refrigerant systems