RES4LIVE

ENERGY SMART LIVESTOCK FARMING TOWARDS ZERO FOSSIL FUEL CONSUMPTION

PROBLEM STATEMENT

Intensive Livestock Farming is one of the most **energy consuming** sub-sectors of agriculture, mainly based on fossil fuels use.

Both electricity and thermal energy is required for cooling-heating of the indoor environment, running of equipment and tractors, lighting, and ventilation.

More sustainable livestock production and de-fossilising energy needs in husbandry facilities emerges as **crucial aspects within EU**.

OBJECTIVES

The strategic objective of **RES4LIVE** is to **develop and bring into the market**:

INTEGRATED, COST-EFFECTIVE & CASE-SENSITIVE RENEWABLE ENERGY SOURCES SOLUTIONS, TOWARDS FOSSIL-FREE LIVESTOCK FARMING

Sustainability of the farms' operation

Increased productivity

Superior thermal comfort of the animals

Minimum climate change impact

EXPECTED IMPACT

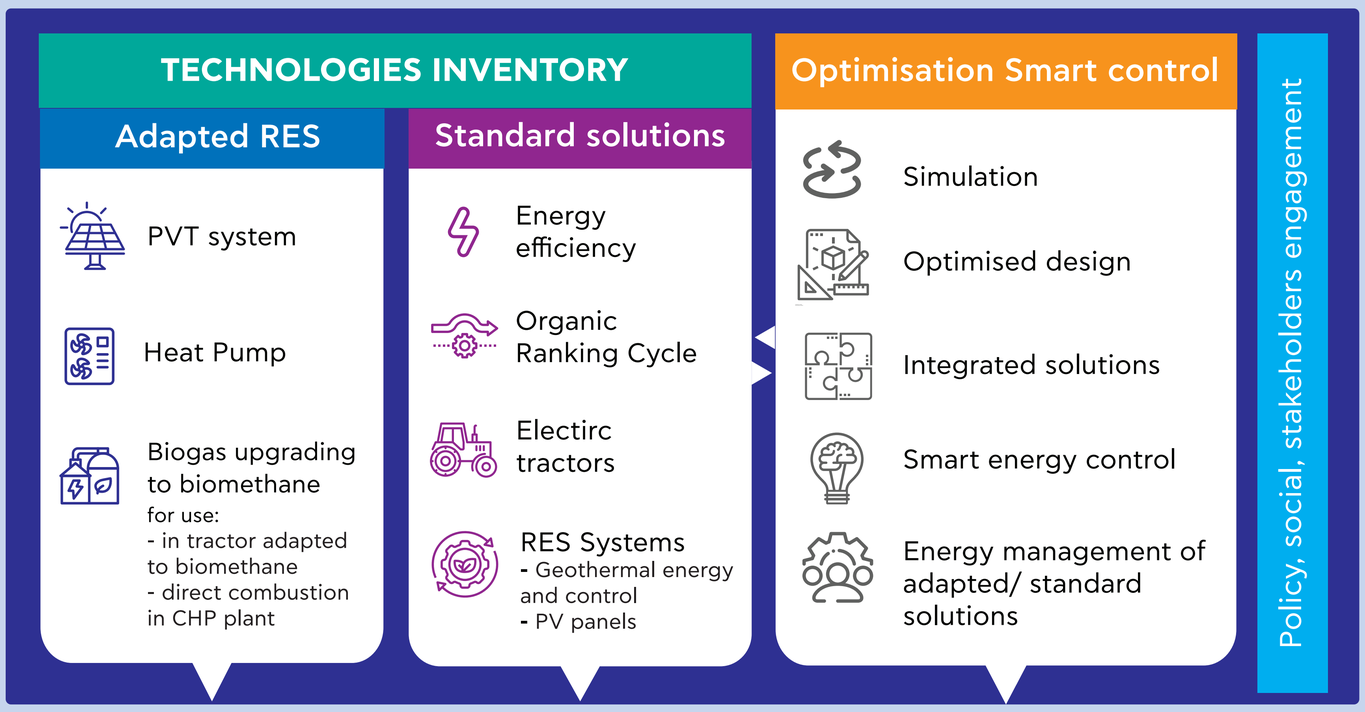
Creating forefront knowledge in the application of renewable energy solutions in livestock farming

Supporting job growth and competitiveness in the EU livestock industry

Improving EU citizens' quality of life by drastically reducing the livestock sector's environmental footprint

PROPOSED SOLUTION

RES4LIVE will be a first attempt for **100% replacement of the fossil fuel consumption in the industrial livestock farming sector**, with the aid of cost-effective, innovative RES (Renewable Energy Sources) and Smart Control technologies.

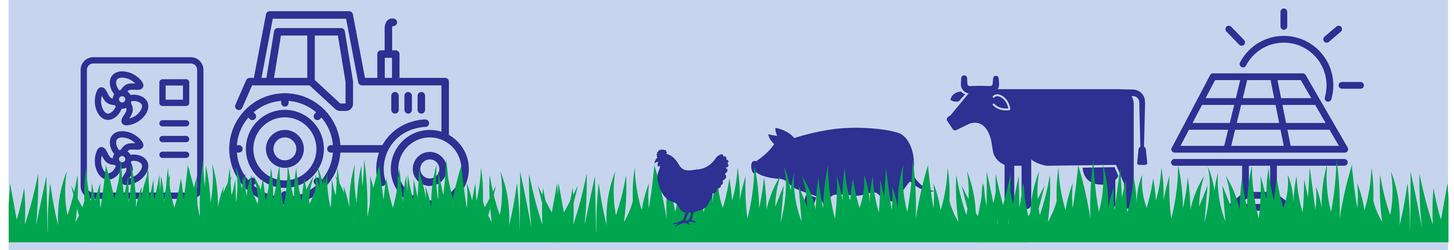


Demonstration in 4 plot farms technical/ economic/ enviromental assessments

Integration/ replication, co-design with end-users, cost-effective solutions, communications, ...

FOSSIL - ENERGY FREE FARMING

Dedicated, optimal designs combined with energy efficiency and other solutions will be demonstrated in **4 pilot farms in Belgium**, **Italy**, **Germany** and **Greece**,



hosting **cows**, **chickens** and **pigs** and evaluated technically, economically, environmentally and socially.

CONTACT

www.res4live.eu

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PARTNERS

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