

EXPECTED IMPACT



RES4LIVE will offer to livestock farmers the opportunity to greatly de-fossilise their units:

- Covering their needs in energy
- Reducing operation costs
- Ensuring optimum animal productivity

The wide use of the proposed innovative systems by the EU livestock sector will not only pave the way for a fossil-energy-free agriculture, but is also expected to have multidimensional impacts on the European economy, society and farming industry:



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

PARTNERS



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A RESEARCH & INNOVATION HORIZON PROJECT 2020

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17
partners



8
EU countries



4
pilot farms

www.res4live.eu



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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.

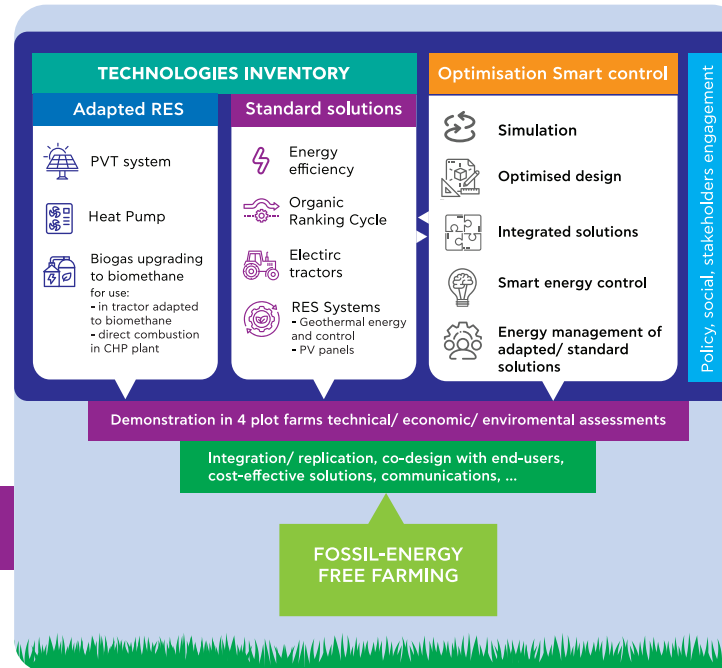
More sustainable livestock production and de-fossilising energy needs in husbandry facilities emerges as **crucial aspects within EU**.

STATE OF PLAY

With declining costs and improvement of reliability and performance of key **Renewable Energy Sources (RES) technologies** the opportunities for farmers and livestock producers to engage in RES production are increasing, and **new business models are emerging on the market**.

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 and Smart Control technologies**.



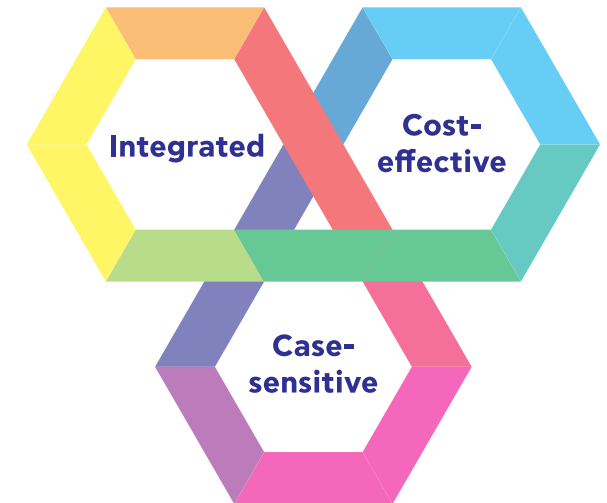
Dedicated, optimal designs combined with energy efficiency and other solutions will be demonstrated in **4 pilot farms in Belgium, Italy, Germany and Greece**, hosting:



and evaluated technically, economically, environmentally, and socially.

OBJECTIVES

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



Renewable Energy Sources solutions towards achieving fossil free livestock farming, that ensure:

Sustainability of the farms' operation

Increased productivity

Superior thermal comfort of the animals

Minimum climate change impact