Thermochemical Fluids in Greenhouse Farming

Market potential

The European greenhouse market is set to grow significantly, from €5.87 billion in 2018 to €9.6 billion by 2023, at a compound annual growth rate of 10.3%. Amidst challenges such as climate change and energy crises, the demand for energy-efficient and sustainable farming solutions is increasing. TheGreefa, a microclimate management system, stands out as a promising innovation designed to enhance energy efficiency in greenhouse farming.

This technology offers precise climate control and energy savings by integrating renewable energy sources, making it a sustainable choice for modern agriculture. It's projected to have an annual market value ranging from €350 to €1,729 million. By adopting TheGreefa, farmers can significantly reduce their energy costs and carbon footprint. The system is especially suited for large markets in Spain, Italy, and France, where greenhouse infrastructure and climatic conditions are favourable.

For agricultural professionals, implementing TheGreefa could mean not only a reduction in operational costs but also an increase in crop yield and quality due to better climate management. The technology provides a strategic advantage by aligning with European decarbonization goals and improving the competitiveness of European agricultural products.

In practical terms, TheGreefa can be easily integrated into current greenhouse operations, improving both immediate profitability and long-term environmental sustainability. This solution is a step towards future-proof farming, providing a competitive edge in an increasingly challenging agricultural market.

TheGreefa project has received funding from the European Union's Horizon 2020 Research and Innovation Program under grant agreement No 101000801.