

## Thermochemical Fluids in Greenhouse Farming

## Practice innovation meets EU environment standards

The European Green Deal aims for Europe to be climate-neutral by 2050. Central to this is the Farm to Fork strategy, promoting a fair, healthy and environmentally friendly food system. This includes measures to reduce the agricultural sector's carbon footprint.

The Energy Efficiency Directive sets binding targets for Member States, mandating energy management systems in large enterprises, including agriculture. The Renewable Energy Directive encourages the use of renewable sources in agricultural operations.

The Horizon 2020 program supports projects like TheGreefa, which employs thermochemical fluids to cut energy and water use. The EU's Common Agricultural Policy (CAP) now includes measures to promote renewable energy in agriculture, aligning the sector with the Green Deal's goals.

TheGreefa's technology demonstrates large-scale implementation of sustainable practices. It respects the Water Framework Directive by ensuring sustainable water use. The project complies with EU chemical regulations, including REACH and CLP, ensuring safe use of substances. The magnesium chloride solution used is not dangerous, and all safety obligations are met.

Food safety is guaranteed by avoiding direct contact between the magnesium chloride solution and agricultural products, complying with Regulation (EC) 1935/2004.

TheGreefa integrates solar energy, reducing reliance on non-renewable sources and enhancing its environmental impact. Solar panels power the thermochemical system, reducing operational costs and contributing to the EU's renewable energy goals.

TheGreefa embodies the EU's sustainability goals aligning with EU legislation and promoting environmental protection.