

# Suncom cuts energy consumption by 20% with Emerson decarbonization solutions

## RESULTS

- 20% reduction in energy bills
- Enhanced operational efficiency
- Improved sustainability
- Increased productivity
- Robust system security



## APPLICATION

Decarbonization of the heating process for agricultural business using Floor To Cloud™

## CUSTOMER

Suncom Energy, a company specialized in decarbonization of energy supply for a farm based in Noord-Brabant, The Netherlands.

## CHALLENGE

The farm required a significant amount of heat to fulfill agricultural processes. Previously, wood pellets – a form of biomass – were burnt, which was harmful to the environment, producing as much if not more CO2 as burning coal. The farm wanted to find a sustainable solution. Additionally, the volatility of the fuel market led to substantial and unpredictable fluctuations in energy costs. The farm sought to achieve independence from these market conditions by taking control of its own energy production.

## SOLUTION

Suncom Energy provided continuous, clean heating solutions using their compact Concentrated Solar Power (CSP) technology. Suncom's SunArc (parabolic reflectors) captured sunlight, focusing it onto receiver tubes to heat water or a Heat Transfer Fluid (HTF) up to 425°C. This heat was then stored in Thermal Energy Storage or used for thermal energy or electricity, overcoming the intermittency of renewable energy sources.

***"Our collaboration with Emerson has been transformative, reshaping our decarbonization solutions through a digital transformation approach."***

**Wout Gubbels**

Technical Director, Suncom Energy B.V, The Netherlands

## POWER GENERATION

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Key components of Suncom's CSP solution included:

- **Emerson Industrial PC (IPC) RXi2-BP:** Enhanced performance and process insights.
- **Movicon SCADA/HMI software:** Automated processes, real-time monitoring, operational efficiency, and security.

The system featured:

- Autonomous sun-tracking mirrors optimizing sunlight concentration.
- Movicon Web Client for Mobile/Tablet allowing remote monitoring.
- Multiple layers of security for system integrity.
- Simplified data clearance and intuitive interface design.

The Emerson and Suncom solution with Floor To Cloud™ collectively provided a robust, efficient, and sustainable energy solution for the farm, significantly enhancing productivity and reducing operational costs.

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