

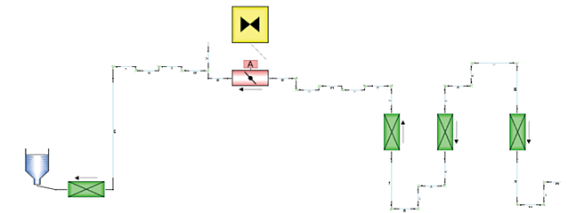
# Eurotecnica

## Solar energy storage with Simcenter Flomaster



**This work demonstrates the importance of numerical simulation early in the design phase of a large plant in which absolute reliability is paramount**

**Precise definition of emergency maneuvers that guarantee the safety of the system**



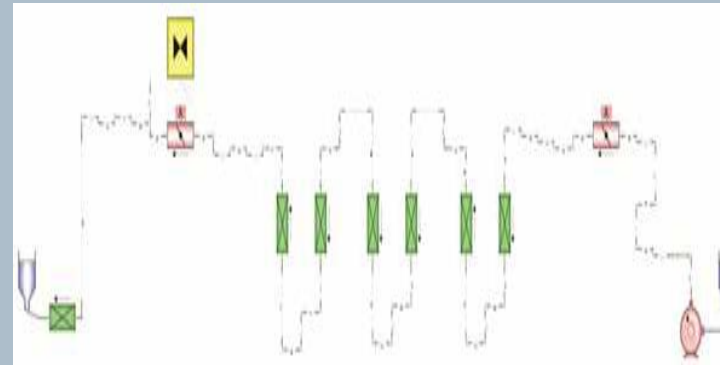
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## Solar energy storage with Simcenter Flomaster

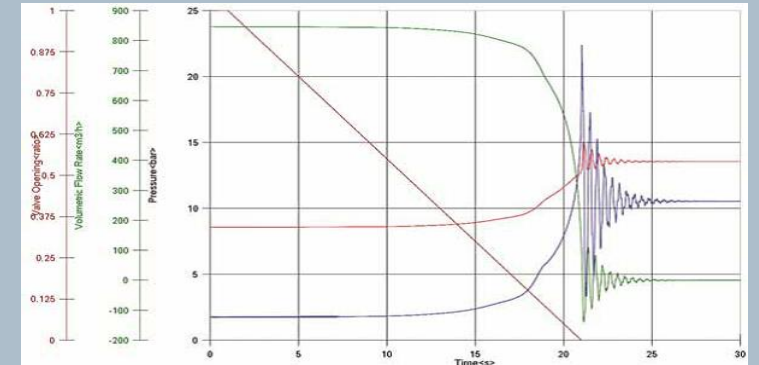


- Studied the detailed behaviour of the system early in the design phase considering different operating conditions
- Defined precise emergency manoeuvres to guarantee system safety
- Identified the appropriate motor for manoeuvring the control valve

### Harnessing the power of the sun



Simcenter Flomaster network modeling molten salts thermal energy storage



Simulation results with valve closure time of 20 seconds at the start of the cycle

- Simcenter Flomaster allowed for the precise definition of emergency maneuvers that guarantee the safety of the system during the entire operating cycle.

**“It demonstrates the importance of numerical simulation early in the design phase of a large plant in which absolute reliability is paramount.**

Francesco Castelletta - Eurotecnica