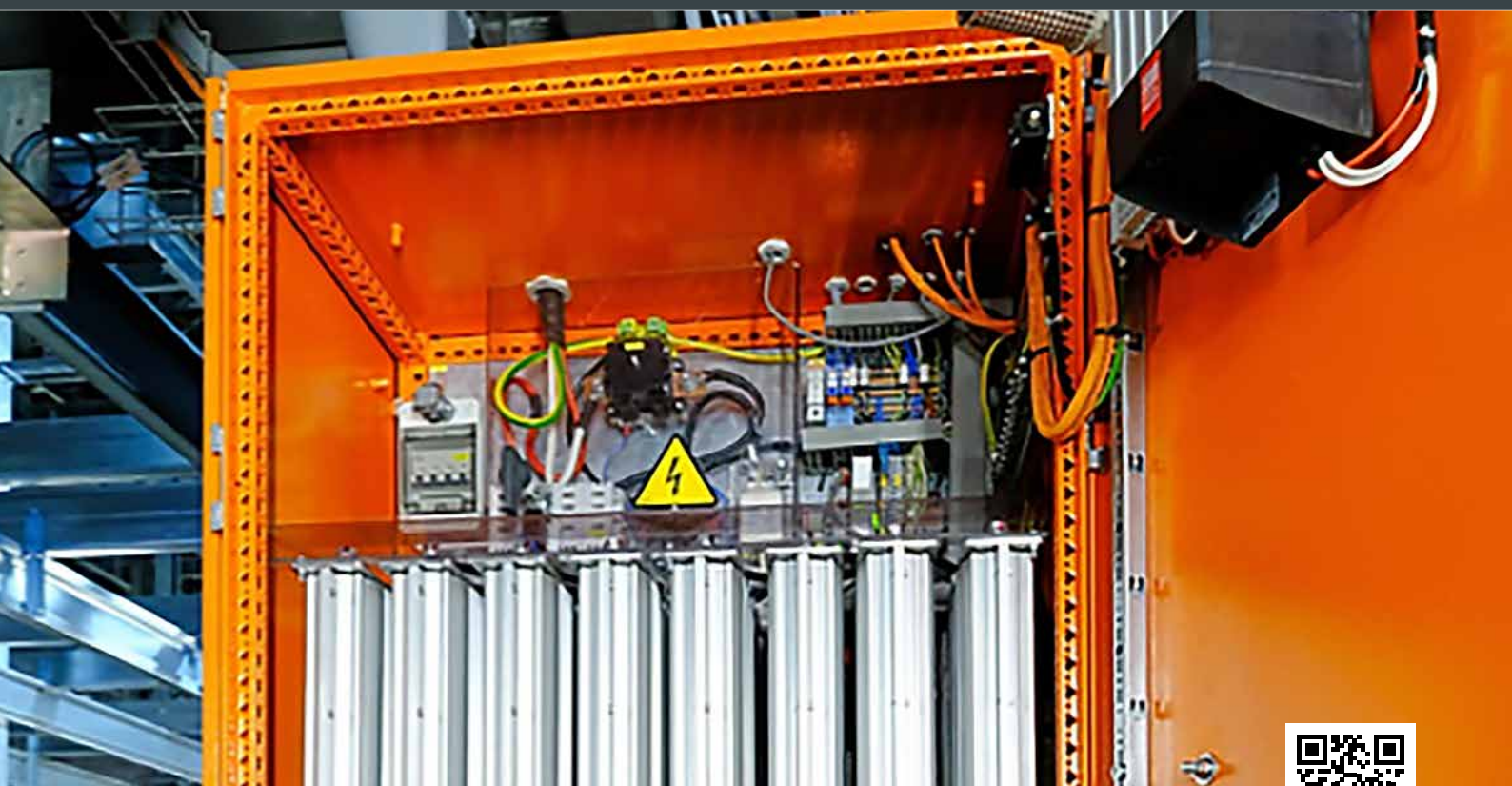


## Energy efficiency under cold conditions



**Customer:** NewCold, Netherlands  
**Integrator:** Ceratec, Belgium  
**Industry:** Cold storage  
**Application:** Stacker cranes with shuttles, pallet transfer shuttle, rail guided vehicle, hoists and conveyors

## Premium standard through innovations

The Dutch company NewCold is a leader in the development and operation of highly automated cold storage facilities. The company, with 1200 employees, already has a global network with 11 locations on three continents. Through innovation and collaboration with strong partners, the company is the fastest growing specialist in automated cold storage, differentiating itself from traditional cold storage companies with world-class and energy-efficient systems.

## The project at a glance

### Customer requirements

- High grid quality and therefore no use of regenerative power supplies
- No braking resistors, as their heat output would need to be offset
- High degree of capacity utilization
- Rapid return on investment

Together with Belgian integrator Ceratec and drive technology specialist SEW-EURODRIVE from Bruchsal, Germany, a new cold storage facility in Rennes, France, was equipped. This included a considerable number of applications, from stacker cranes with shuttles, pallet transfer shuttles and rail guided vehicles to hoists and conveyors. The premium standard of the products and solutions, a very high degree of innovation, pioneering thinking and a strong partnership unite these three companies.

## Solution

- Use of energy storage capacitors and products from the MOVI-C® modular system
  - Innovative safety technology in the inverter
  - Close contacts and open discussions during the project
- The complete electrical engineering was carried out jointly by Ceratec and SEW-EURODRIVE and tested in the Innovation Center of SEW-EURODRIVE Belgium.

## Customer benefits

- Rapid return on investment by reducing peak power from the grid per storage/retrieval system from 140 kW to 25 kW
- High grid quality and an energy-saving solution thanks to internal energy recovery
- Prevention of mechanical damage and rope vibration in the storage/retrieval system
- Faster safety acceptance thanks to parameterizable safety option cards
- Fast startup thanks to the parameterizable MOVIKIT® software modules



## What our customer says

Patrick de Breet (NewCold, Senior Project Manager)

*“The project in Rennes was a very special job for NewCold. It was the first time we had worked with energy storage units in storage/retrieval systems. Working with SEW-EURODRIVE, we implemented a solution for reducing peak power from the grid, which means that much smaller components can be used in the power infeed. The challenge was integrating the energy storage units into the storage/retrieval systems, but the outstanding cooperation between NewCold, Ceratec and SEW-EURODRIVE made that possible.”*

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