

Interconnected system of three eChiller35 cooling the computer center of the **German Aerospace Centre** to ensure data traffic and communication services of satellite systems and spacecraft.



## Project and implementation

The project requirement was to provide a reliable chilled water system with a future-proof refrigerant, low operating and maintenance costs and high energy efficiency. The system was not only to supply all parts of the plant and thus close the existing redundancy gap, but also to replace the previous air-cooled propane cold brine refrigeration system.

**The multi-operating design of three eChiller35 enables redundant cooling with precise controllability and replaces the previous air-cooled brine cooler with propane gas.**

### Customer:

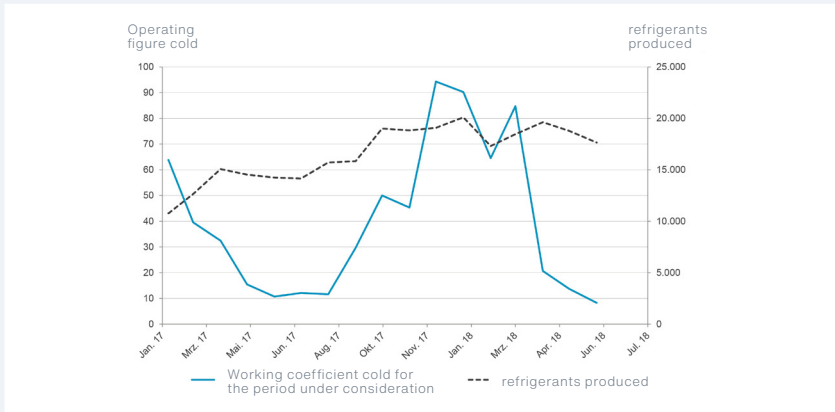
German Aerospace Center, Weilheim / Germany

### Requirements:

- Redundant cooling with precise controllability
- High operating safety
- Use of a future-proof refrigerant
- Ensuring low operating and maintenance costs
- Traceable energy efficiency

## Outcome

Since February 2017, the sustainable cooling system has been in operation. According to the first evaluations, an energy saving of 40 % has been achieved compared.



**3 x 30 kW = 90 kW**  
Cooling capacity (kW)



**16 °C**  
Setpoint temperature



**R718 (water)**  
Refrigerant



**< 50 dB(A) in 10m**  
Sound pressure level



**adiabatic**  
Recooling

