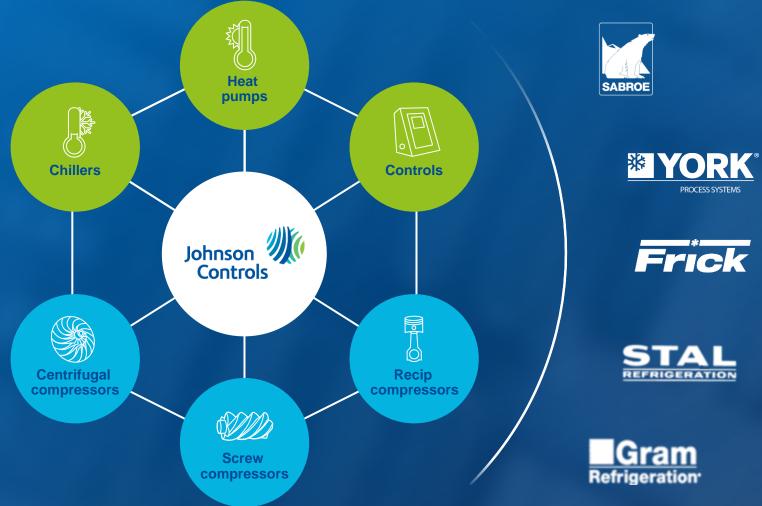


Our product portfolio and brands





Johnson Controls Industrial Refrigeration: Total life cycle solutions

(Tailored)

Design & Engineering

Manufacturing & Production

(Predictive)

Maintenance & Field Services

Installation & Comissioning



Solutions within green and blue hydrogenand the ammonia value chain.





Solutions for the storage and distribution of green ammonia





Estonia

Ammonia storage and handling plant

Challenge

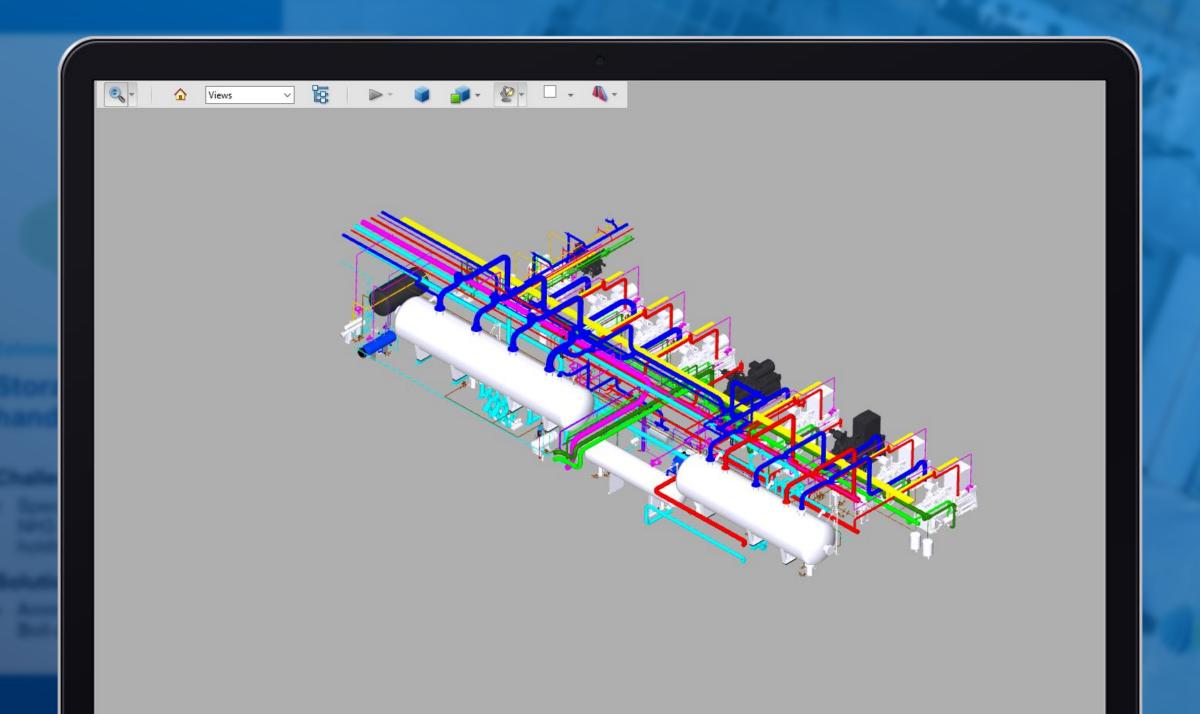
 Custom build installation for unloading the NH3 rail wagons (240 tons/hr) and holding refrigeration unit (1.8 tons/hr)

Solutions

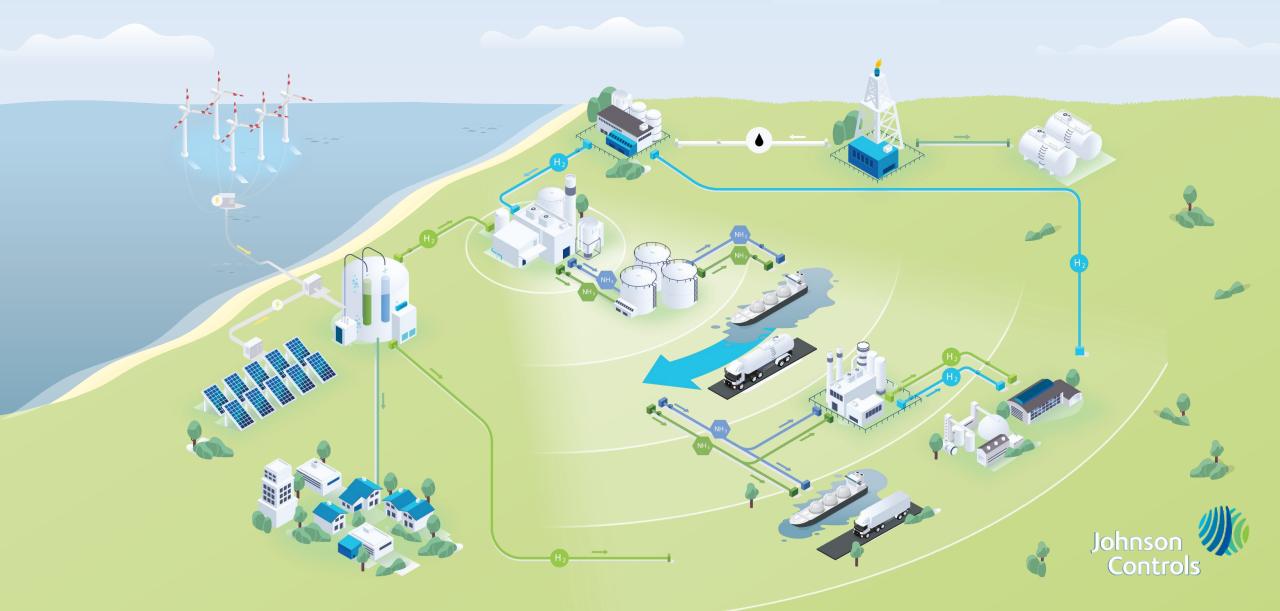
 Ammonia terminals and Boil-off gas (BOG) plants.

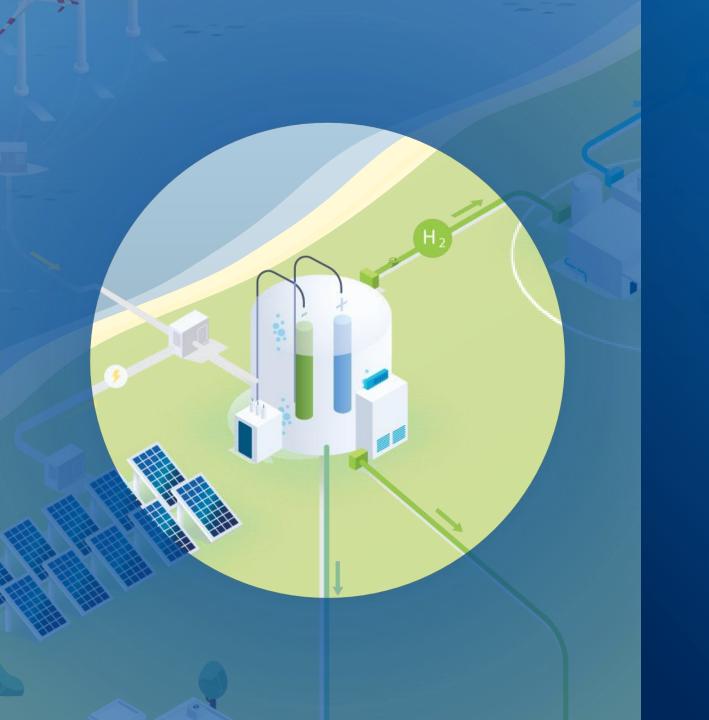






Solutions within green hydrogen and the ammonia value chain.





- Solutions for the storage and distribution of green ammonia
- 2 Solutions for cooling processes of the electrolyzers





Rotterdam

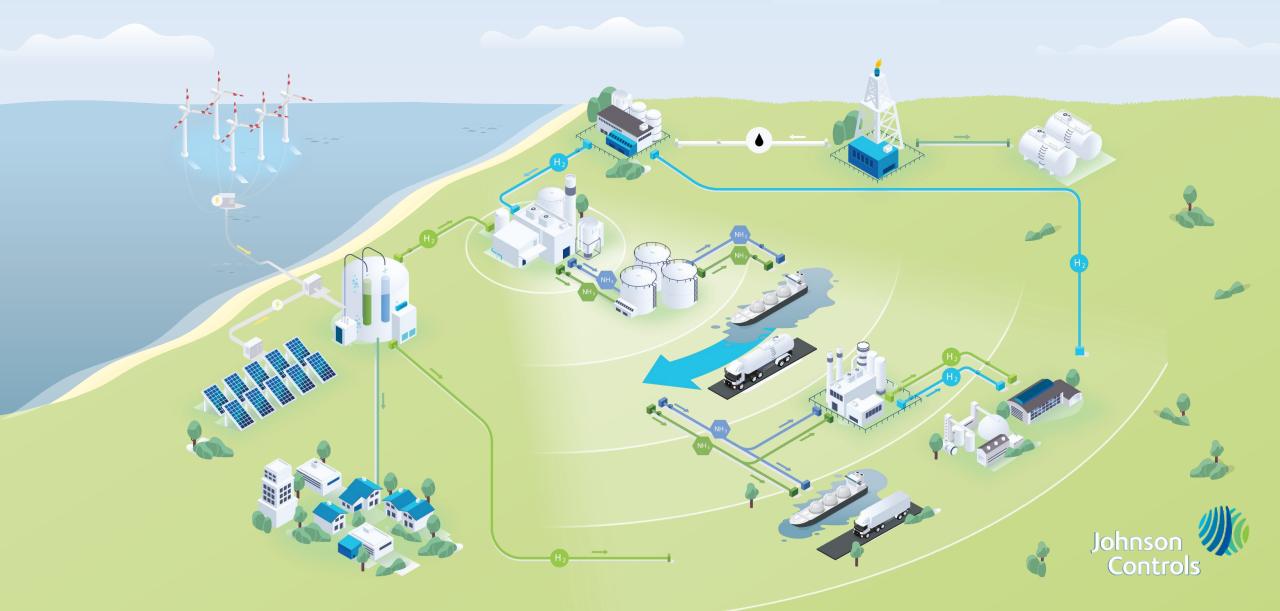
Cooling process of green hydrogen production

Solutions

 Design and realization of sustainable refrigeration solutions for safe cooling of electrical rooms and cabinets, controlling the hydrogen plant and electrolyzers



Solutions within green hydrogen and the ammonia value chain.





- Solutions for the storage and distribution of green ammonia
- Solutions for cooling processes of the electrolyzers
- Solutions for the reuse of residual heat from the electrolyzer





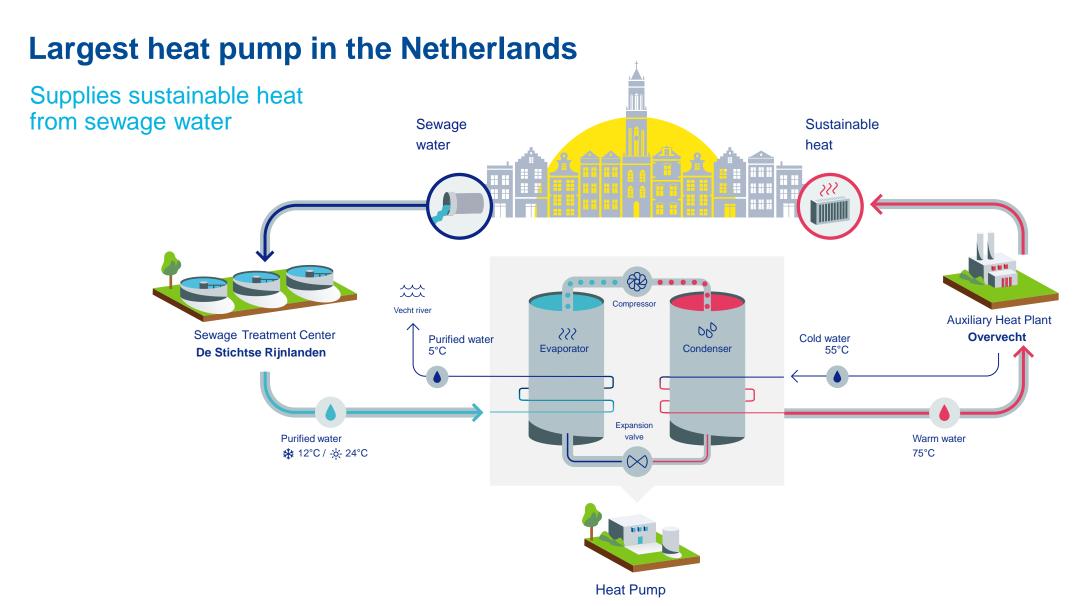
Utrecht

Waste heat utilization

Solution

 Design and realization of a 27MW heat pump system, to utilize the residual heat, subtracted out of wastewater from a sewage treatment plant. The system will provide 20,000 households with sustainable heat.













Solutions within green hydrogen and the ammonia value chain.

