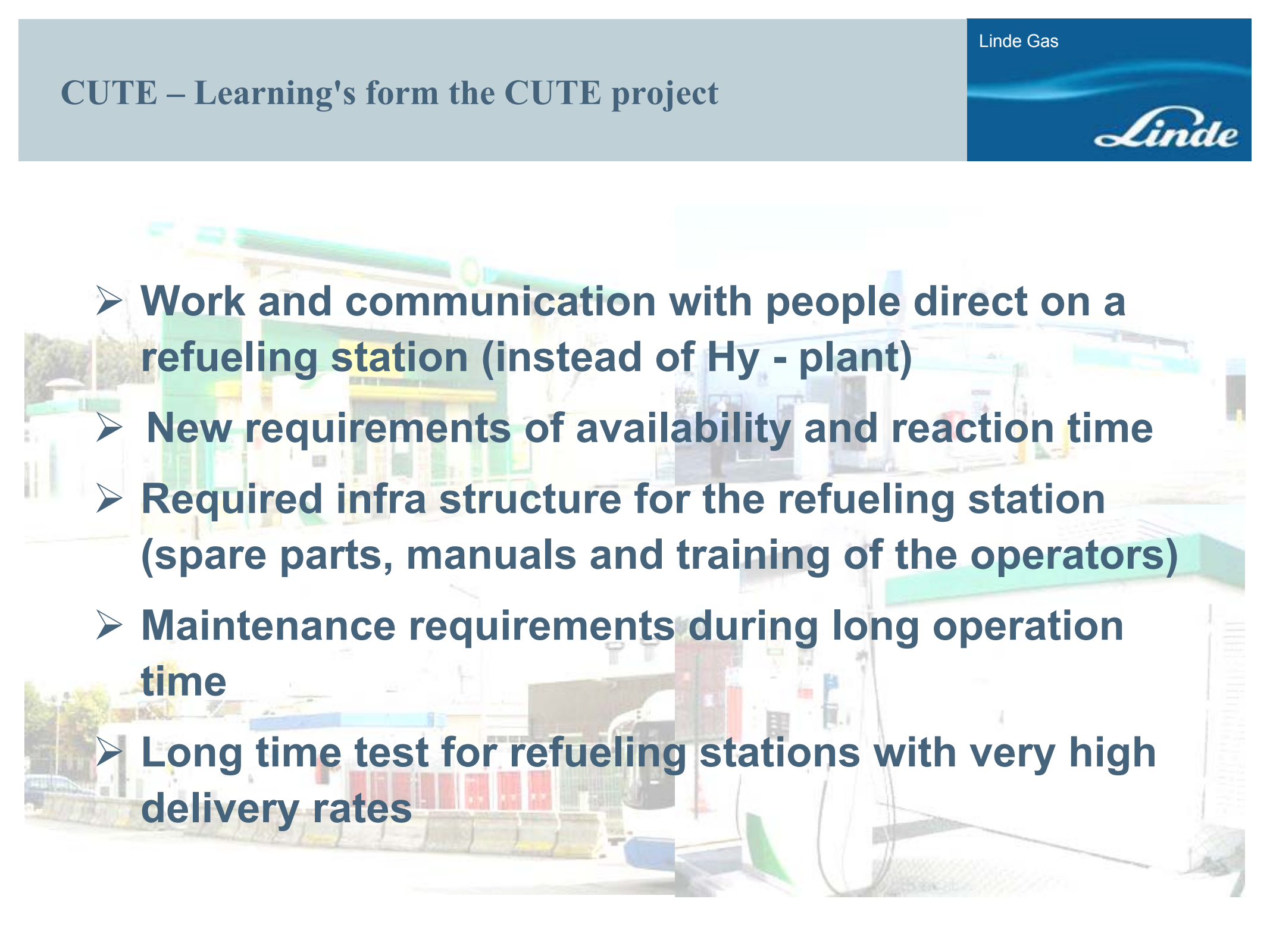


**The technology of tomorrow**  
**by Georg Siebert**  
**LINDE Gas AUSTRIA**

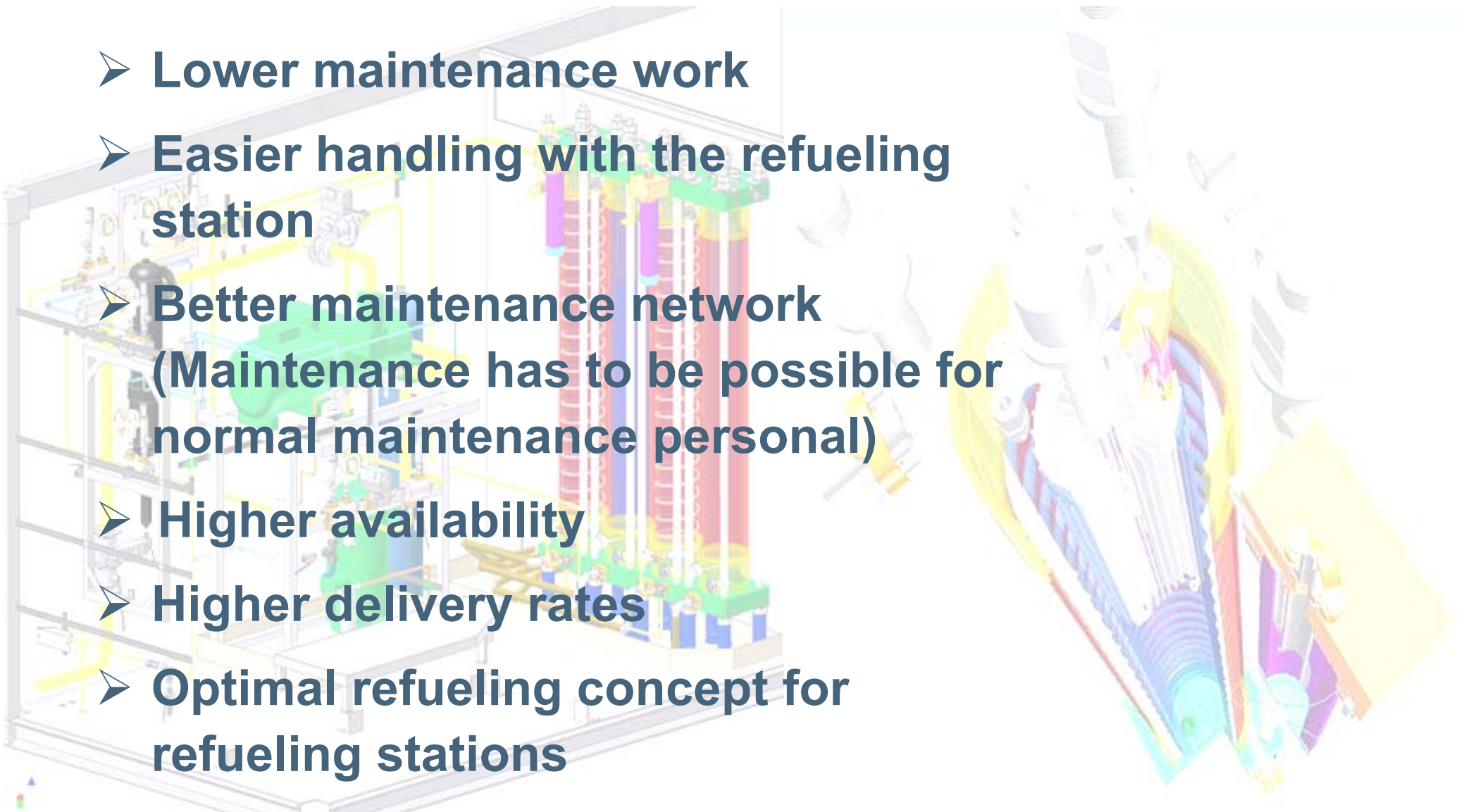
Linde Gas

*Linde*

## CUTE – Learning's form the CUTE project

- 
- A background image of a refueling station with several fuel pumps and a building in the background. The image is slightly faded to allow the text to be read clearly.
- **Work and communication with people direct on a refueling station (instead of Hy - plant)**
  - **New requirements of availability and reaction time**
  - **Required infra structure for the refueling station (spare parts, manuals and training of the operators)**
  - **Maintenance requirements during long operation time**
  - **Long time test for refueling stations with very high delivery rates**

## Needs for the future of CH<sub>2</sub> for refueling stations

- 
- **Lower maintenance work**
  - **Easier handling with the refueling station**
  - **Better maintenance network**  
(Maintenance has to be possible for normal maintenance personal)
  - **Higher availability**
  - **Higher delivery rates**
  - **Optimal refueling concept for refueling stations**
  - **Lower noise emission**

# Short perspective to the future of CH2

Linde Gas



temperature  
compensation  
Max.

900bar

**DISPENSER**

Low noise  
emission

**IONIC**

Less  
maintenance

**STORAGE**

3-storage-System

@ 300 bar

Net equalization to 25  
bar

If necessary

**SCREW COMPRESSOR**

Very high  
delivery rate

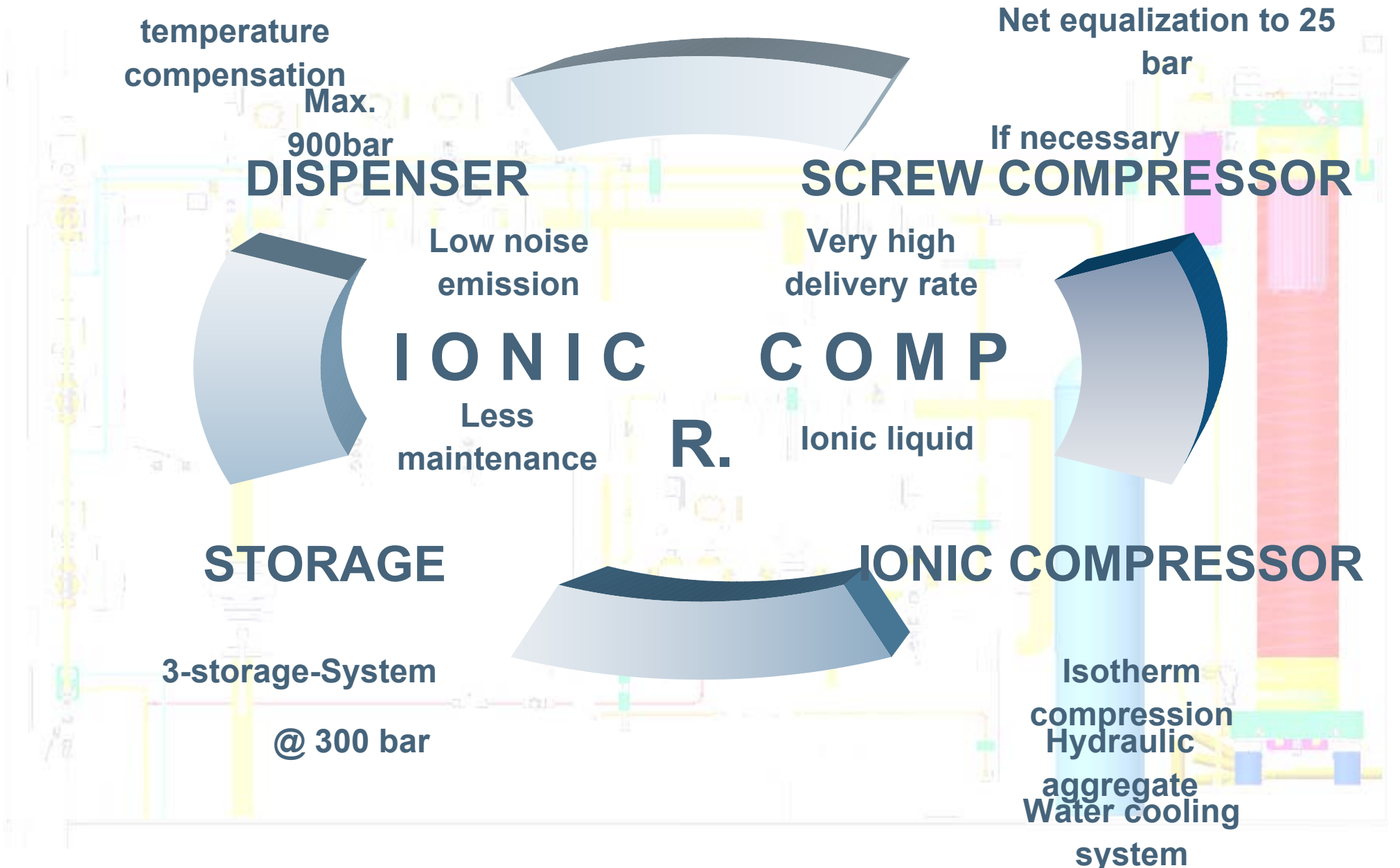
**COMP**

Ionic liquid

**R.**

**IONIC COMPRESSOR**

Isotherm  
compression  
Hydraulic  
aggregate  
Water cooling  
system





# Test refueling station for CH<sub>2</sub> technology of tomorrow

