

Nissens Cooling Solutions

CWP

2024



Nissens Cooling Solutions

Content

1. **ABOUT NISSENS COOLING SOLUTIONS**
2. Wind & Renewables | Industrial Applications
3. Technology

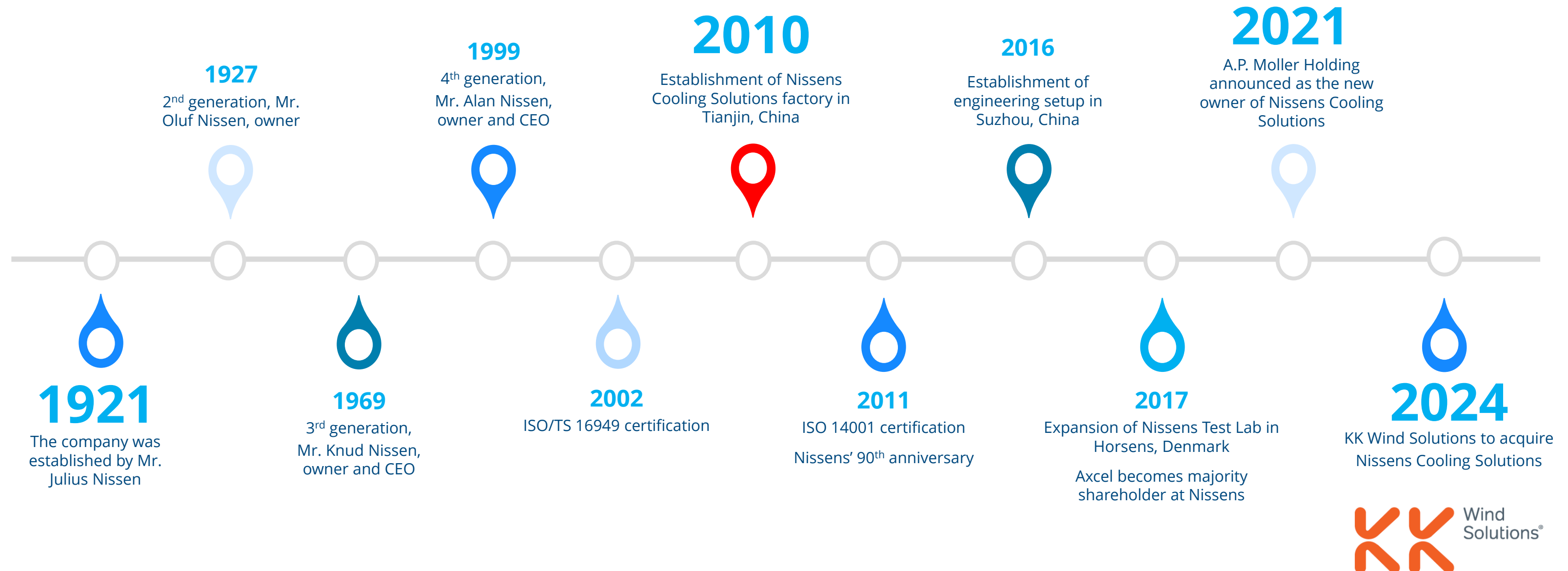
Important Milestones

The history of Nissens

Nissens
Cooling
Solutions



A·P·MØLLER



From a one-man business to a global industrial group
– **established almost 100 years ago**

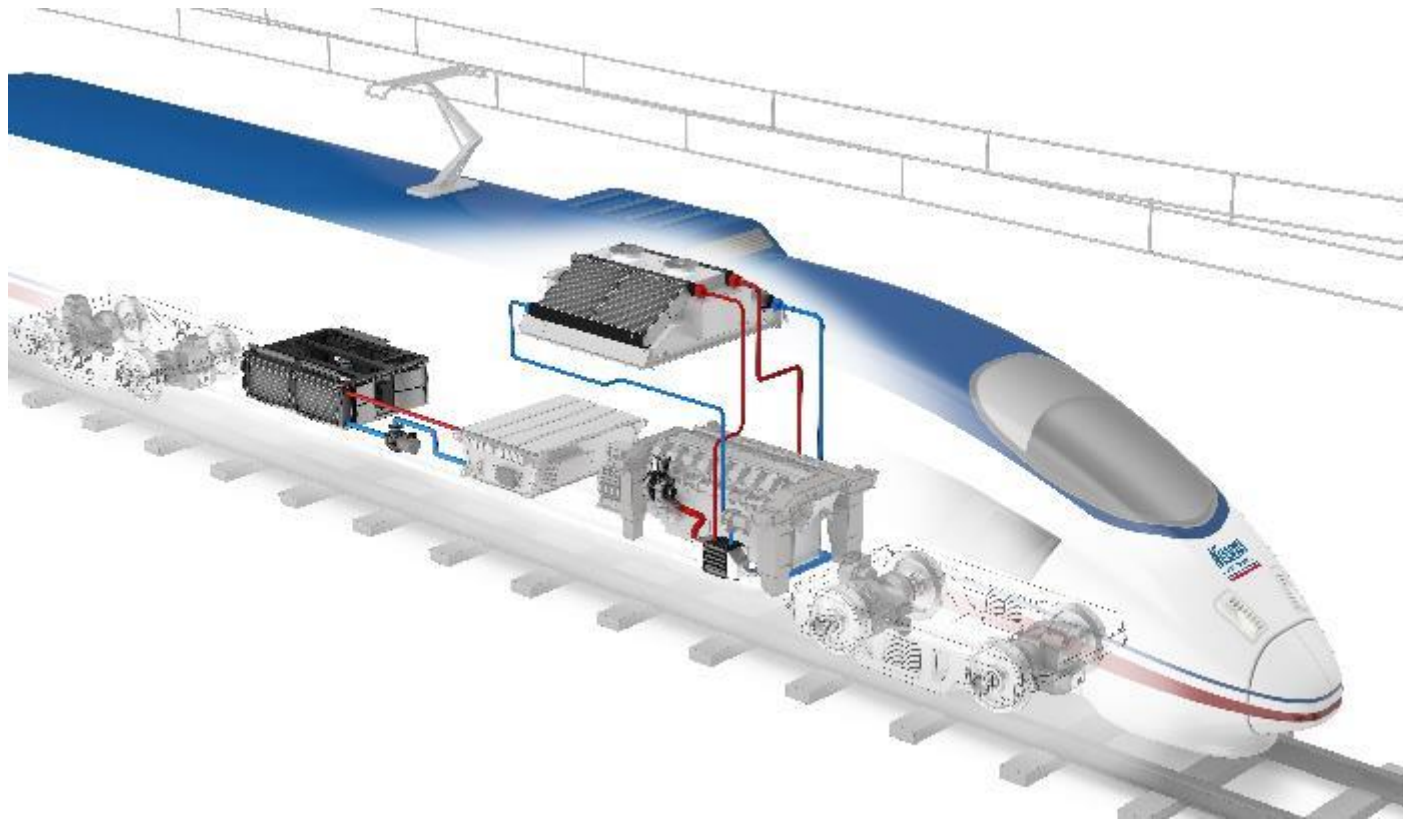
Nissens Cooling Solutions

Wind and Industrial

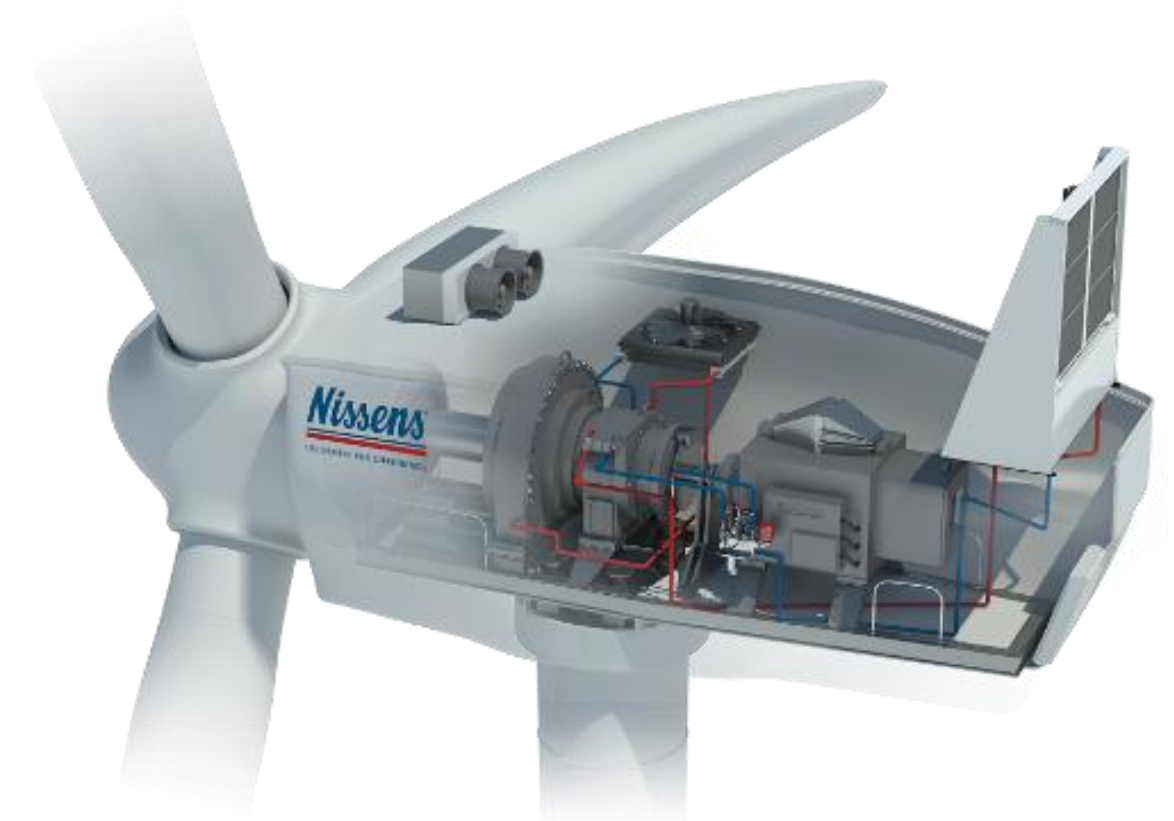


Cooling components, systems and modules **within Wind & Renewables and Industrial Applications**

**Nissens
Cooling
Solutions**



**Advanced
Cooling
Solutions**
for different
cooling needs



The preferred cooling supplier in
renewable **energy and industrial
applications**



Corporate Social Responsibility

Our Position on CSR

In Nissens Cooling Solutions, we are:

- Limiting our [energy consumption and emissions](#)
- Doing business on the basis of a formalized [Code of Conduct](#)
- Complying with the [highest quality standards](#) and meeting the quality expectations of our customers
- Investing in the [well-being of our surrounding society](#) and sponsoring a large variety of activities within sports, charity and fundraising
- Cherishing a [good working environment](#) and a strong company culture, where we take care of each other

WE SUPPORT



WE ARE PART OF THE [UN GLOBAL COMPACT NETWORK](#)

- committing us to comply with the principles that are defined by UN Global Compact on corporate social responsibility and sustainability



OUR CODE OF CONDUCT

**Nissens
Cooling
Solutions**

1

RESPONSIBLE BUSINESS PRINCIPLES

Legal Compliance

2

RESPONSIBLE BUSINESS PRINCIPLES

Prohibition of Corruption

3

RESPONSIBLE BUSINESS PRINCIPLES

Accounting & Reporting Standards

4

RESPONSIBLE BUSINESS PRINCIPLES

Conflicts of Interest

5

FUNDAMENTAL COMPANY ETHICS

Non-Discrimination

6

FUNDAMENTAL COMPANY ETHICS

Environmental Protection & Work Environment

7

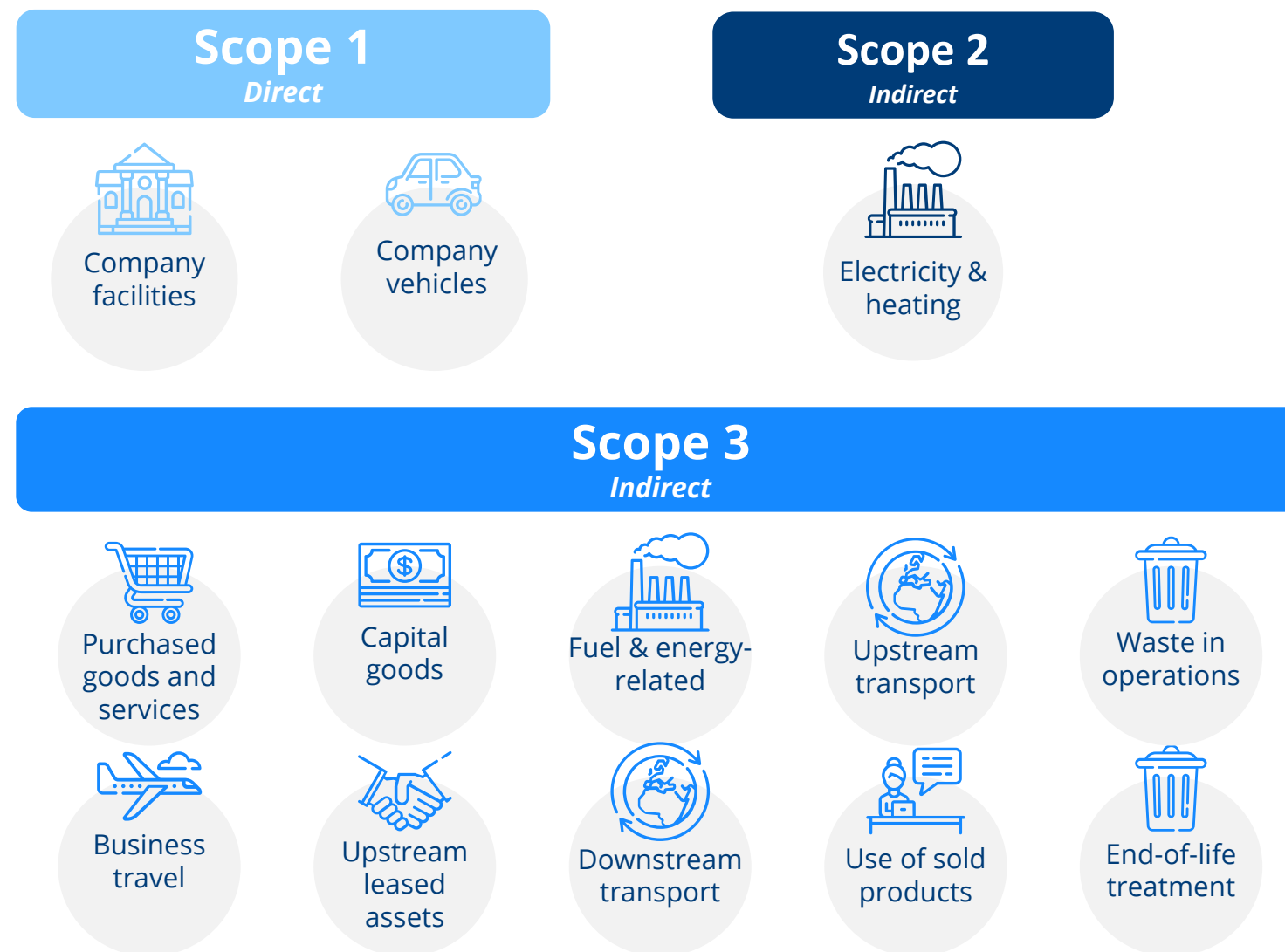
FUNDAMENTAL COMPANY ETHICS

Forced Labor & Child Labor

Sustainability

A key mission

We have with 2020 as baseline mapped our CO₂e emission



Nissens Cooling Solutions' targets

- Carbon Neutral on scope 1 and 2 in 2025 in Europe
- Carbon Neutral on scope 1 and 2 in 2030 in China

Status

- All electricity** used on Nissens Cooling Solutions' sites in Europe are with green certificates

A Leading Cooling Solution Provider

Segment Overview

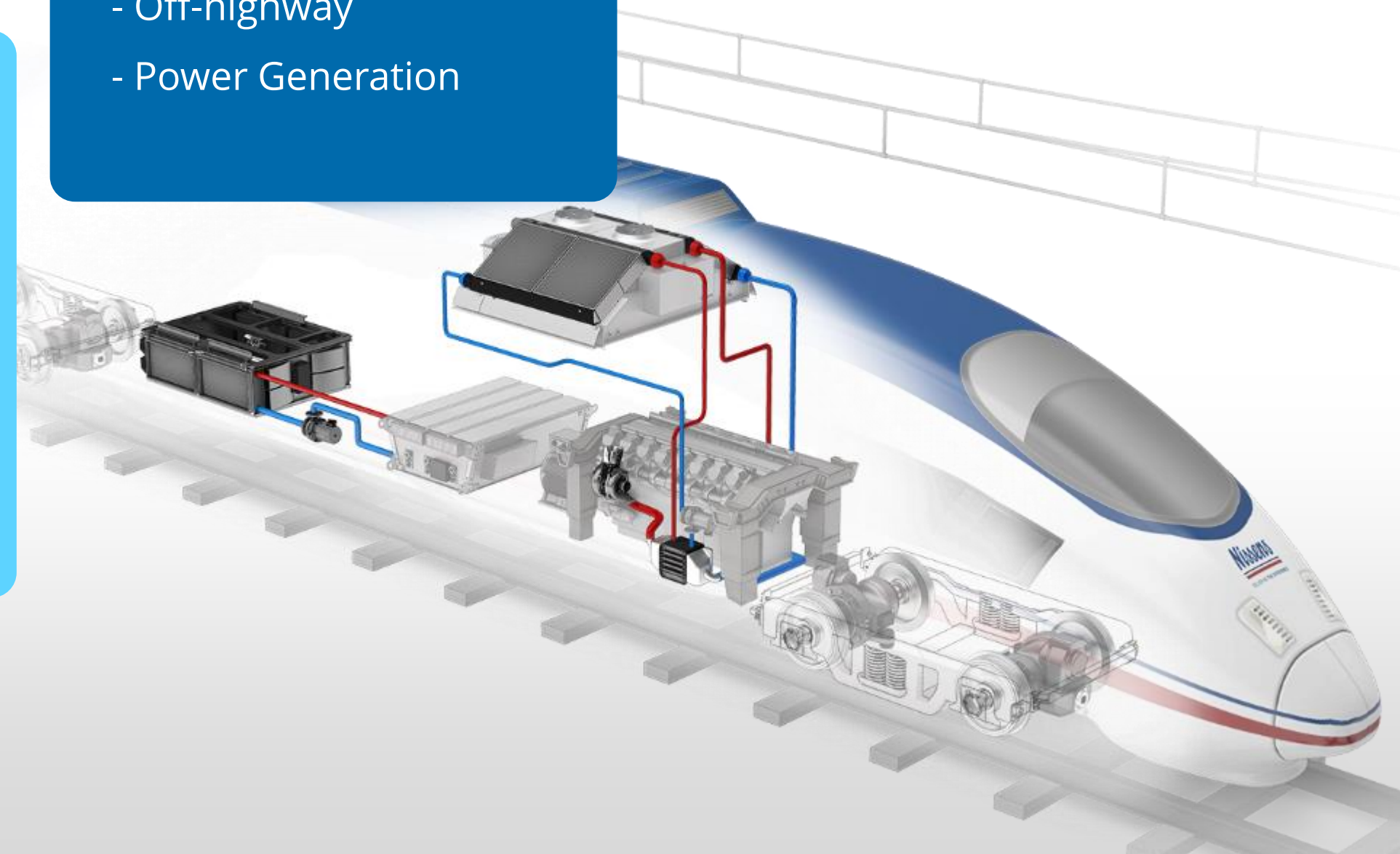
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WIND & RENEWABLES

- Offshore Wind
- Onshore Wind
- Solar

INDUSTRIAL APPLICATIONS

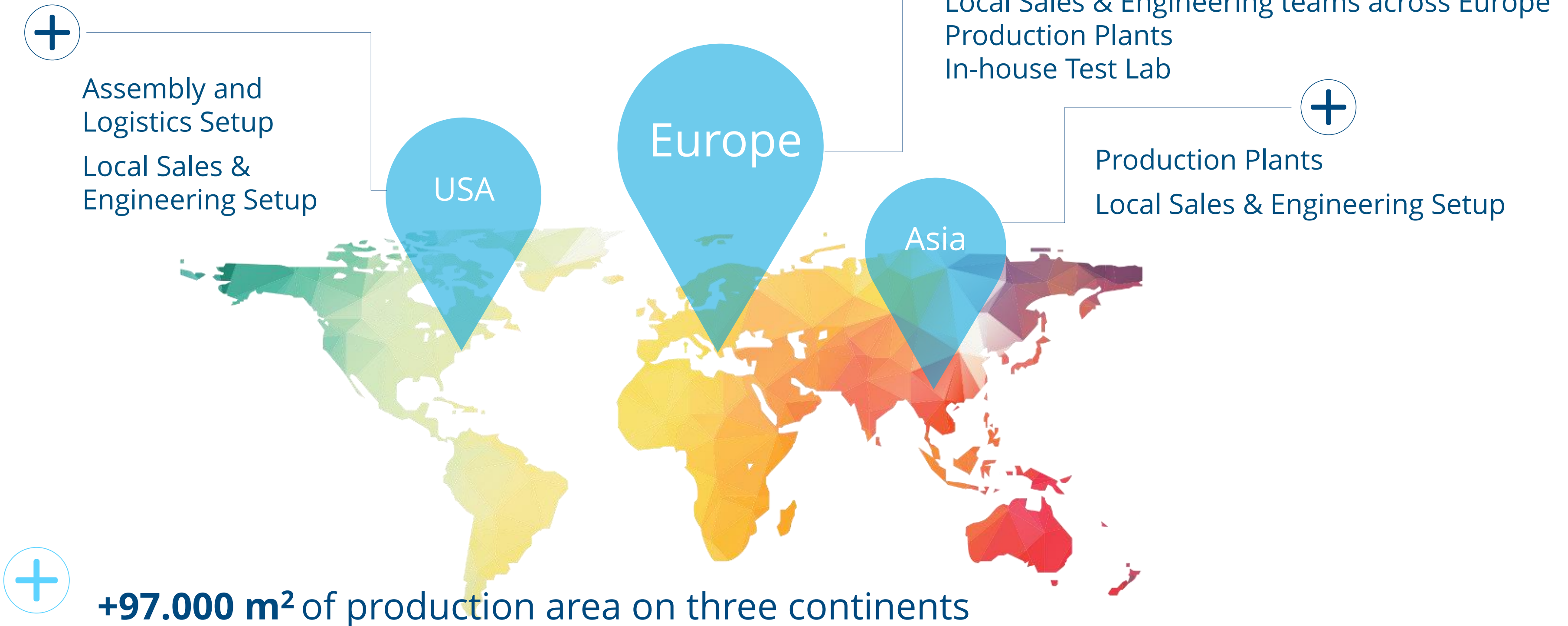
- Trains
- Mining
- Off-highway
- Power Generation



Nissens Cooling Solutions' Facilities

Global Presence & Local Support

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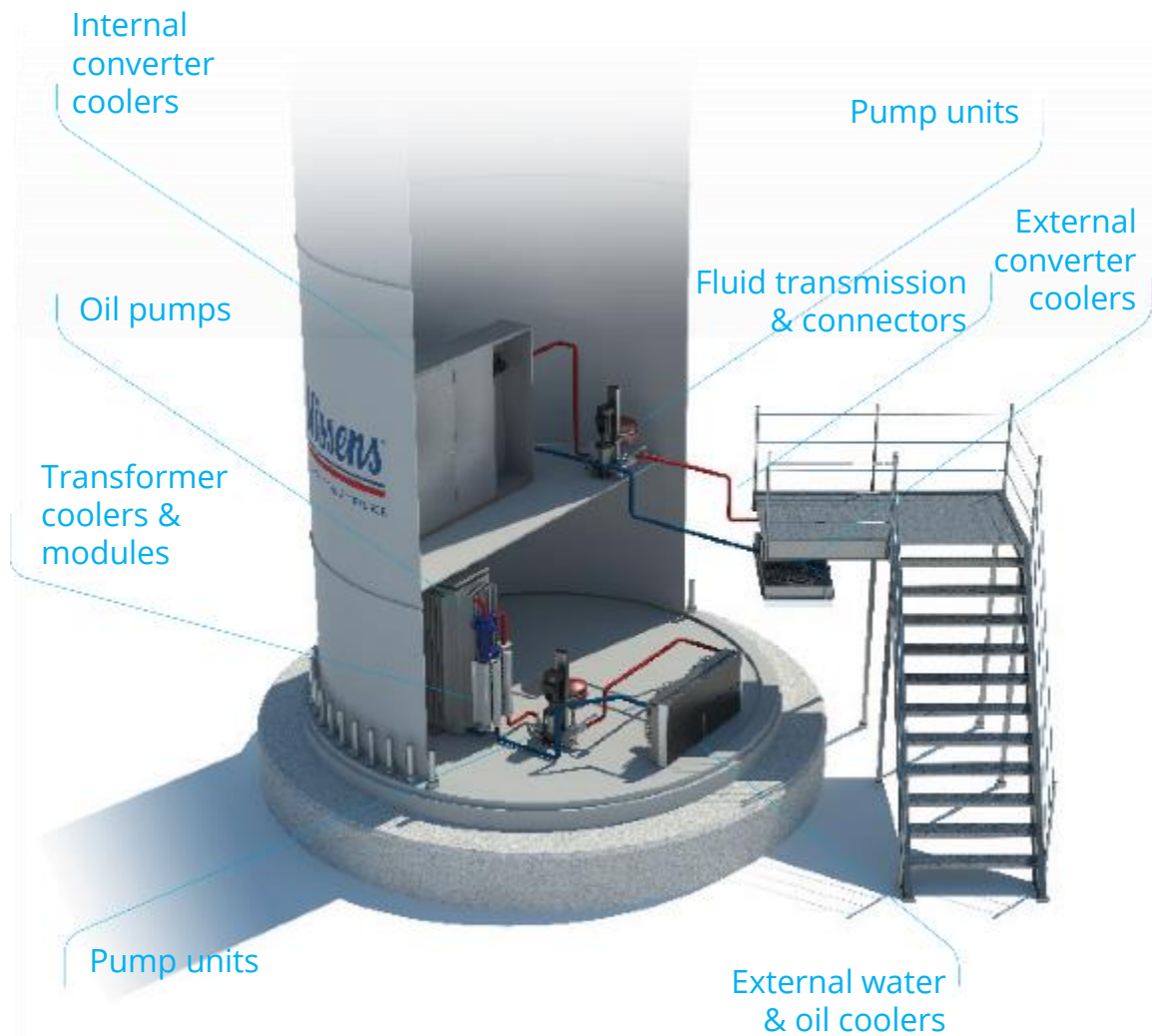
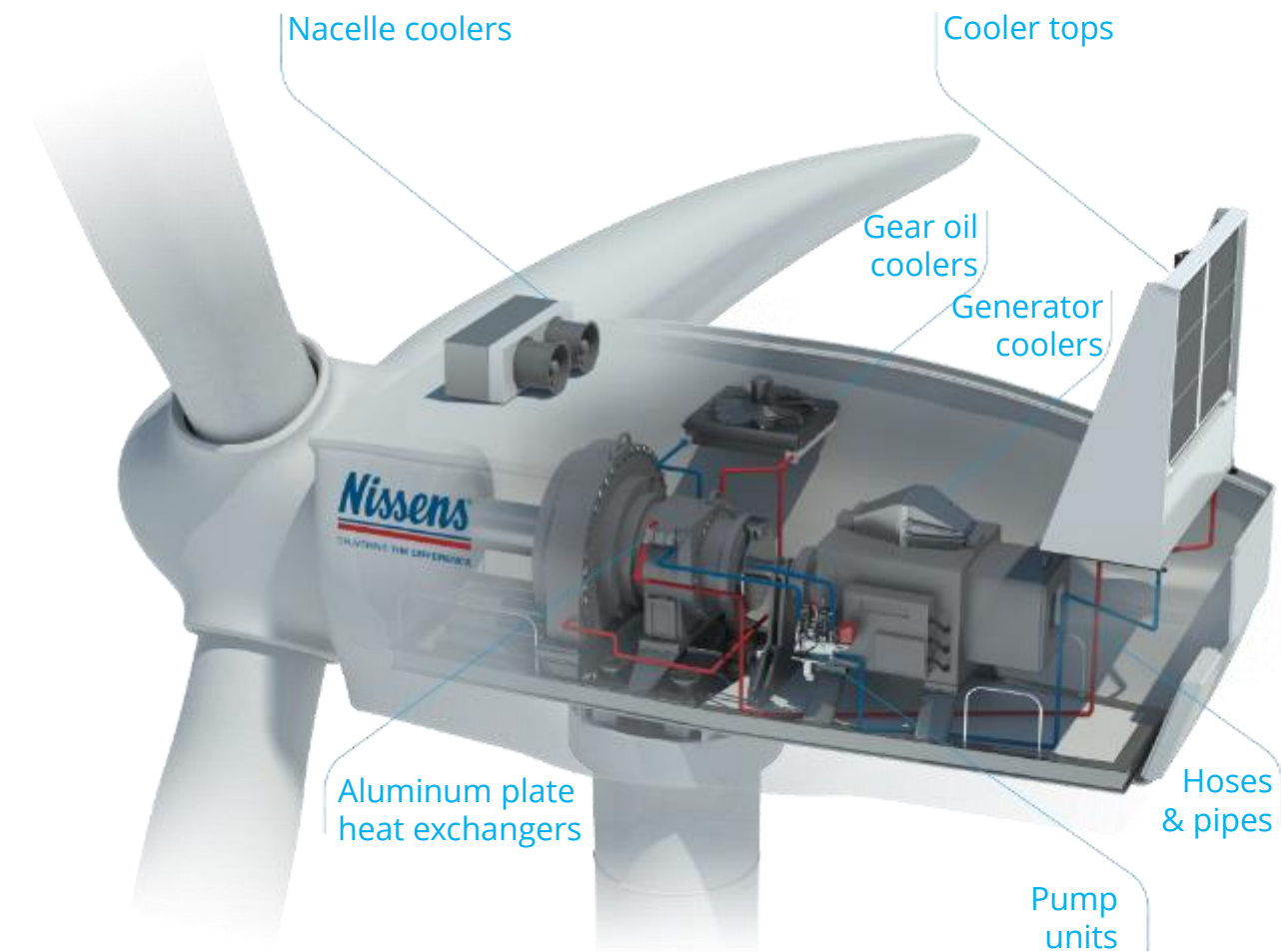
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Wind & Renewables

Components, Systems & Modules

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Primary Heat Exchangers

Coolers inside the nacelle and tower where hot oil, water or air from components are cooled, typically by cold water/glycol

Pump Units

Pump units circulate liquid between the primary and secondary heat exchangers

Fluid Transmission & Connectors

Fluids circulate through hoses and pipes between the primary and secondary heat exchangers

Secondary Heat Exchangers

Coolers where hot fluid is cooled and hot air is emitted from the wind turbine, i.e. cooler tops and external coolers



Nissens Cooling Solutions assembles all parts of a WTG section and delivers it as a **“plug & play” solution** – with one part number - for the nacelle. Delivered to our customer’s production location or directly on-site

Experienced Supplier

Wind & Renewables | Industrial Applications

**Nissens
Cooling
Solutions**

Experienced Supplier

+30 YEARS OF EXPERIENCE
in the wind industry

+50 YEARS OF EXPERIENCE
with cooling solutions for
industrial applications

Global Presence

**FACILITIES ON THREE
CONTINENTS**
Europe | Asia | USA

1,500 m² Test Lab

**IN-HOUSE
TEST FACILITIES**
Among the largest in
Northern Europe

In-depth knowledge

**ON A WIDE VARIETY OF
APPLICATIONS**
with cooling demand for
mission critical machinery

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3. **TECHNOLOGY**

Nissens Cooling Solutions' R&D team

...drives the innovation of our company

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Experience

INNOVATION | KNOW-HOW

Acting upon new market trends in the industries and designing products for the future

Customization

OF COOLING SOLUTIONS

In close partnership with our customers, we design optimal, tailored cooling solutions

3 weeks

FOR PROTOTYPE

Maximum three weeks from design freeze to supply of first prototype

25 years

PRODUCT LIFETIME

Designing products for the future means a minimum of 25-year lifetime



Your benefits



Professional & experienced partnership
equal fast understanding of cooling needs



First-time right solutions
equals reduced costs and time on the project



Reliable product solution customized to your needs
equals reduced application downtime

Quality

Our guarantees

- Certified according to ISO 14001, ISO 9001 and IATF 16949
- DIN EN 15085 – CL1
- EN ISO 3834 – 2
- Ford Q1 certified – preferred supplier to Ford
- Advanced in-house test lab
- In-house R&D department including tooling factory



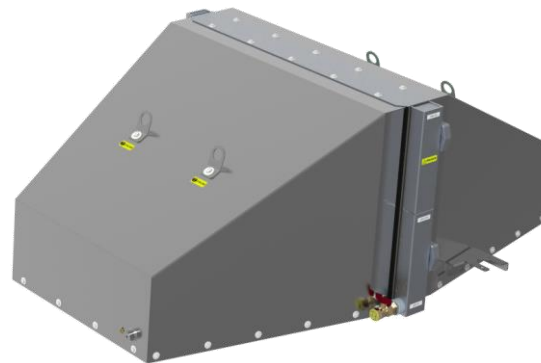
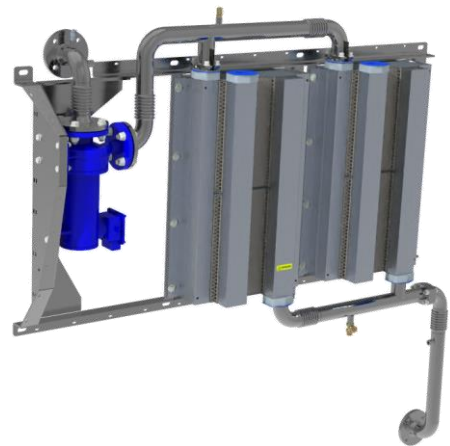
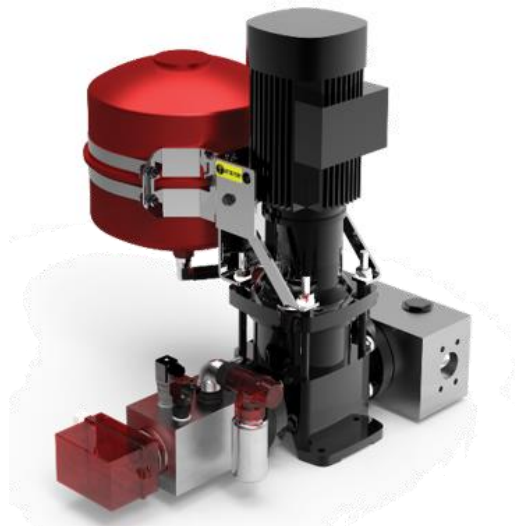
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Wind Power Innovations

All cooling systems & modules

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- + Pump station
- + Gearbox cooler
- + Generator cooling system
- + Transformer cooling module
- + Converter cooling system
- + Nacelle cooling module
- + Cooling tower
- + Air to air cooler

Thank you for your attention