



EMS-FEHN-GROUP

RELIABLE PARTNER TO
THE WIND INDUSTRY

LOGISTICS SOLUTIONS SINCE 1984



For nearly four decades, **EMS-Fehn-Group** has been providing a vast variety of worldwide logistics solutions to customers in numerous industries. Among others, EMS-Fehn-Group's companies are active in:

- project logistics
- chartering
- ship management
- heavy haulage
- crane services
- port operations
- stevedoring
- quality management

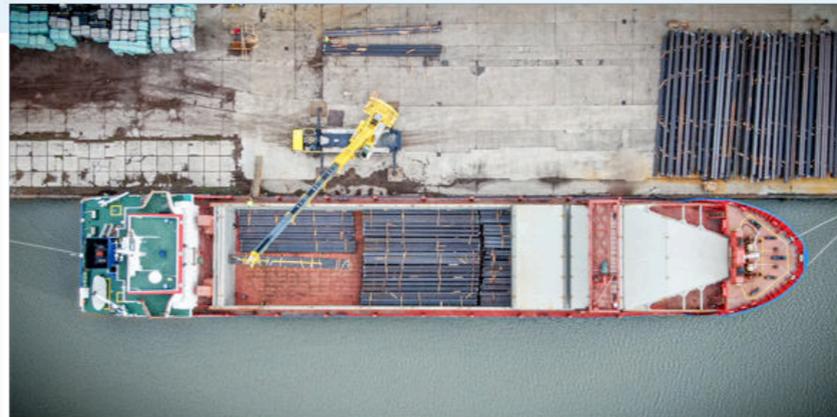
At EMS-Fehn-Group, you will have **one single point of contact** for the full set of logistics solutions.



EMS-FEHN-GROUP'S OWN ASSETS

EMS-Fehn-Group operates its own

- port terminals
- seagoing vessels
- special transport trucks
- cranes



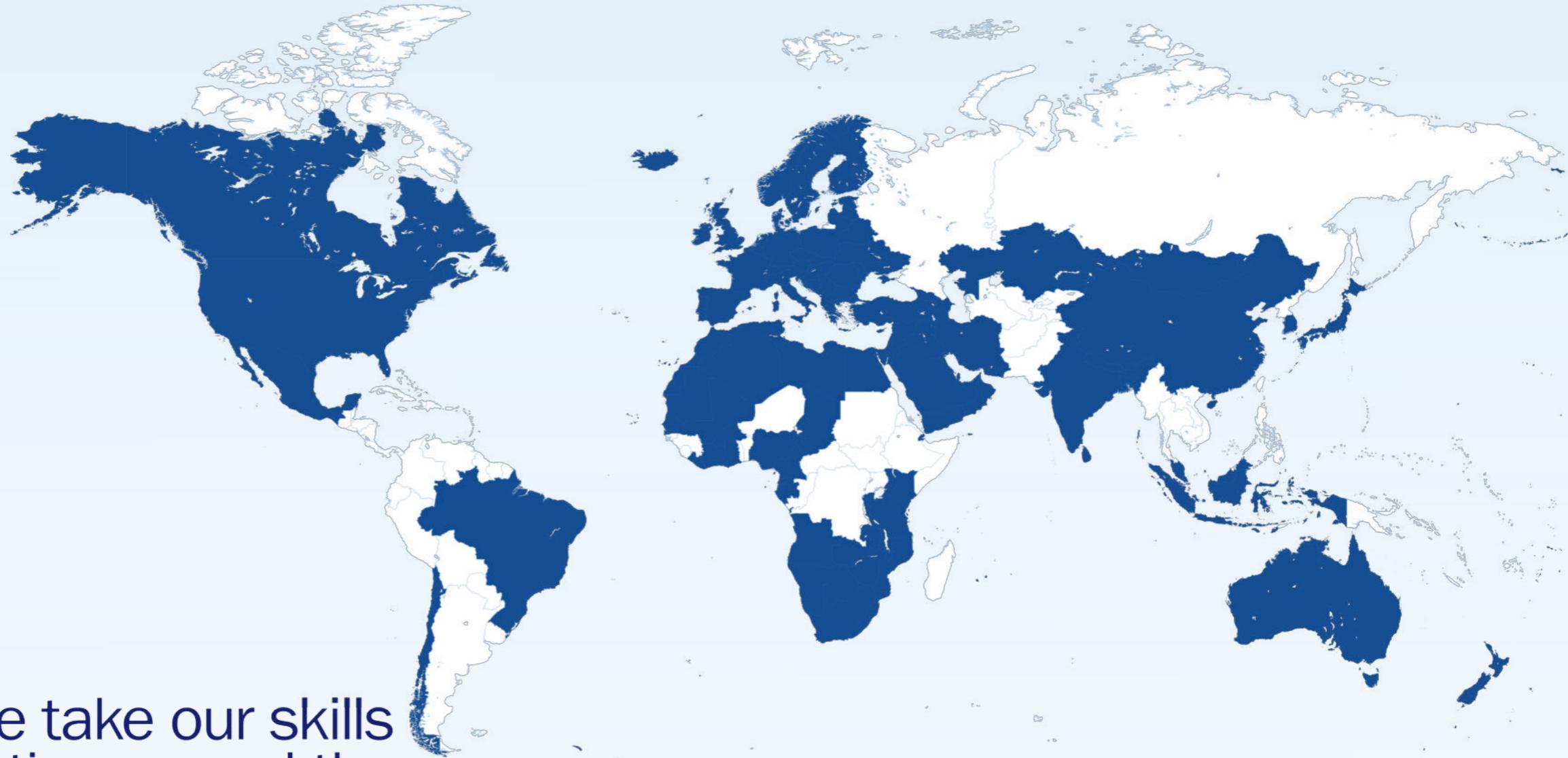
EMS-FEHN-GROUP
LOGISTICS SERVICES



EMS-Fehn-Group's
homebase is

EUROPE

EMS-FEHN-GROUP **LOGISTICS SERVICES**



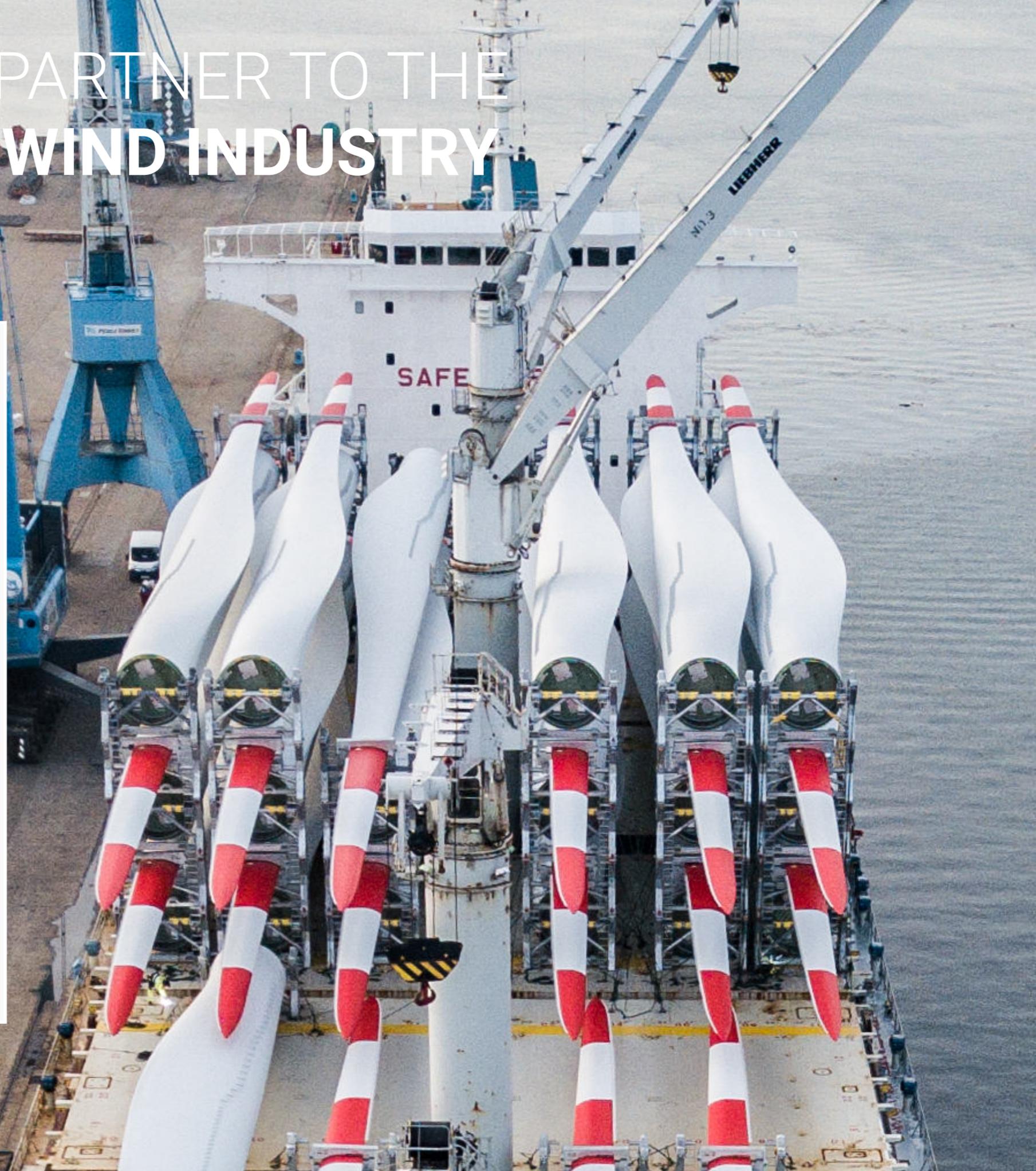
... but we take our skills
and expertise around the

WORLD

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EMS-Fehn-Group has been supplying innovative logistics solutions to the wind industry for decades. Services provided include

- worldwide shipping of components
- port handling
- storage of components
- road transports to construction sites
- road surveys
- crane services



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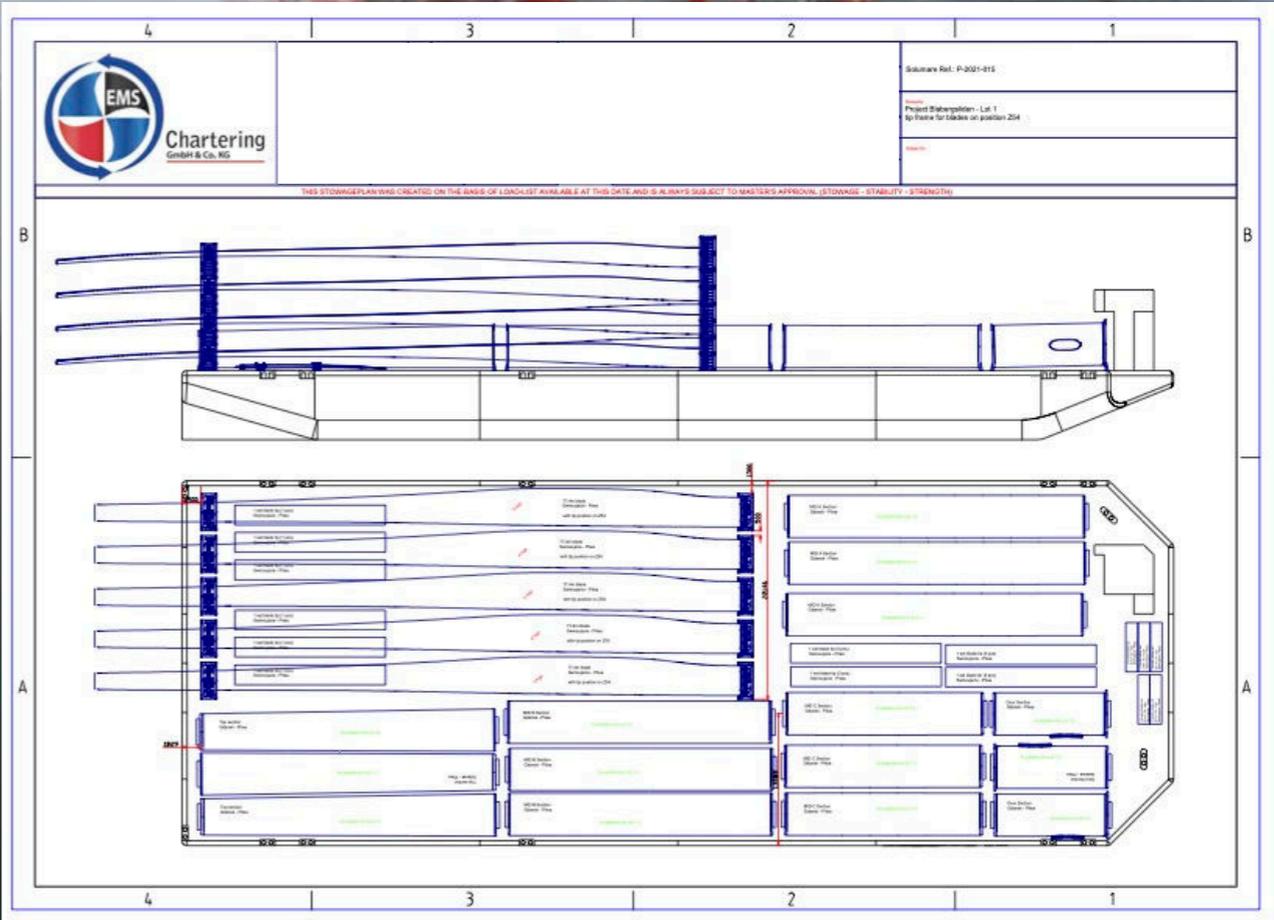


EMS-Fehn-Group member **EMS Chartering** develops sophisticated concepts. For example, the professionals contrived a special plan to deliver more than 400 windmill blades and 110 tower sets to Europe's biggest onshore wind farm. Making use of barges, the precious equipment safely crossed the Baltic Sea and arrived at the construction sites in mint condition.

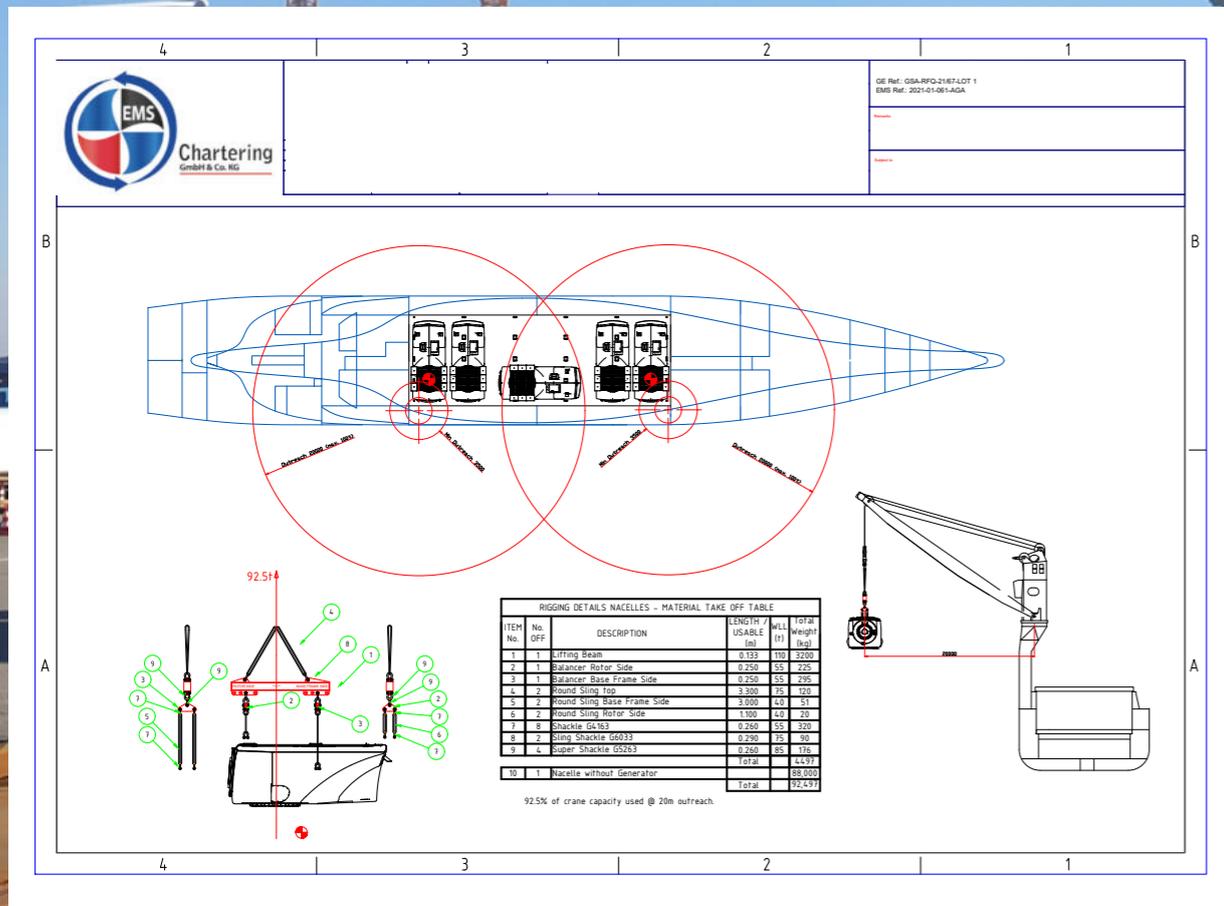
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A stowage plan developed by **EMS Chartering's** inhouse engineers for transporting the wind farm equipment on barges.



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Another stowage plan contrived by **EMS Chartering's** inhouse professionals. It includes lifting the cargo with the ship's own cranes.



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Spain to Germany

Cargo: 300 blade sets
(two year contract)

Scope: FCA factory - free
out POI Germany

Turkey to UK

Cargo: 33 blade sets

Scope: LSDW, sea freight,
discharging, storage &
reloading in POI

Poland

Cargo: 20 tower sets

Scope: free out POI, storage,
customs clearance, cargo
cleaning, reloading, fixture logistic

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EMS-Fehn-Group also assists customers by taking care of the **entire transport chain**. Member company **EMS Log**, for example, was entrusted with delivering more than 50 wind turbine towers from the manufacturer's in the north of Germany to various construction sites in Finland. The project logisticians came up with a unique multimodal concept.



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The mission was to deliver a total of more than **4000 concrete tower segments**. Each of them had to be at the right construction site at just the right time. In order to minimize the need for intermediate storage while still enabling a steady flow of cargo to the sites, **EMS Log** decided to make use of Ro/Ro liner services rather than regular vessels.

Arctic Circle (66°33')

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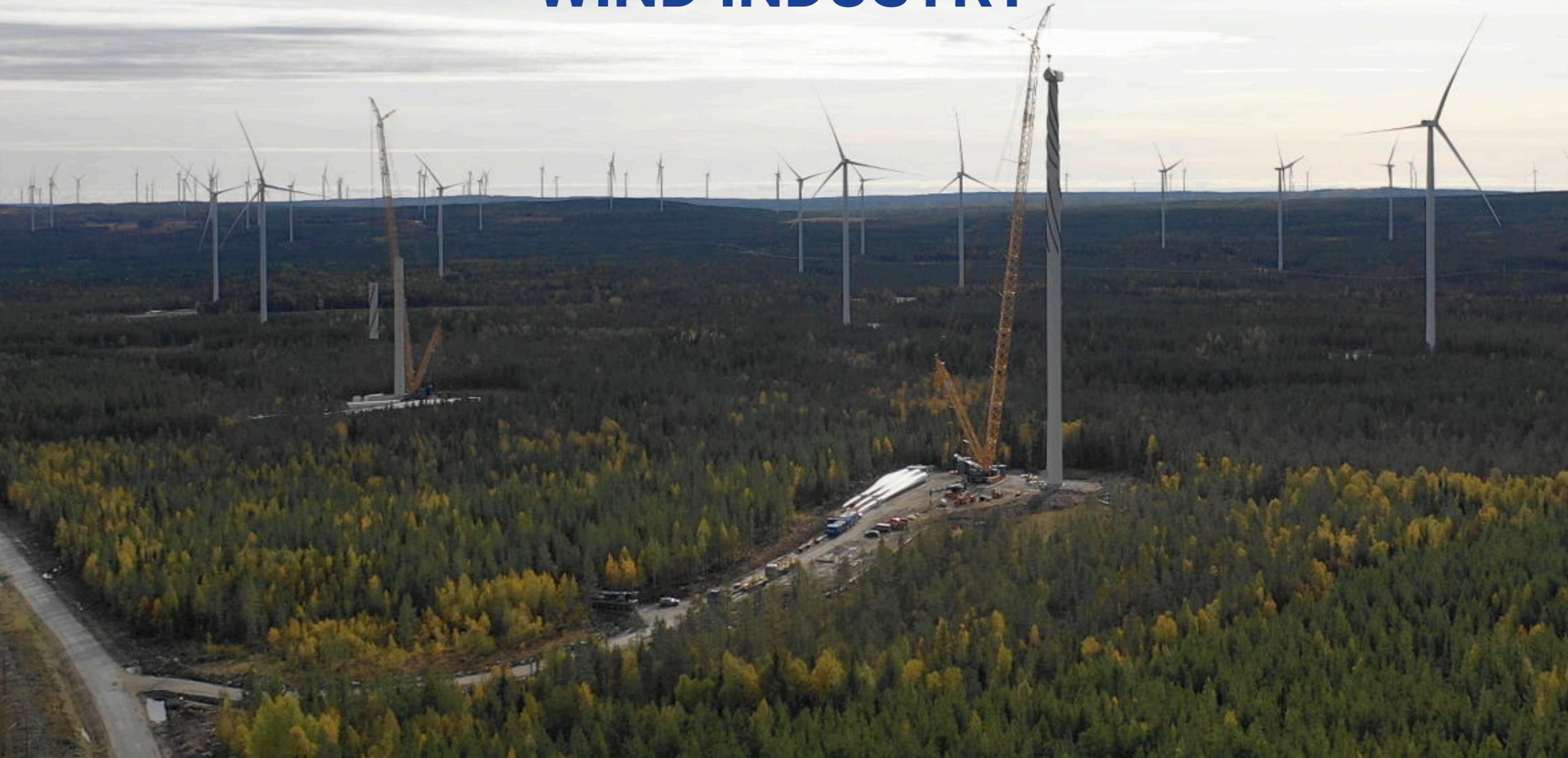
Following the pre-carriage from the production site to ports in Germany by truck, the tower segments were reloaded onto special trailers and boarded the **Ro/Ro vessels**. Then they started their sea journey to Finland. There, the segments were reloaded onto trucks and delivered to the construction sites.

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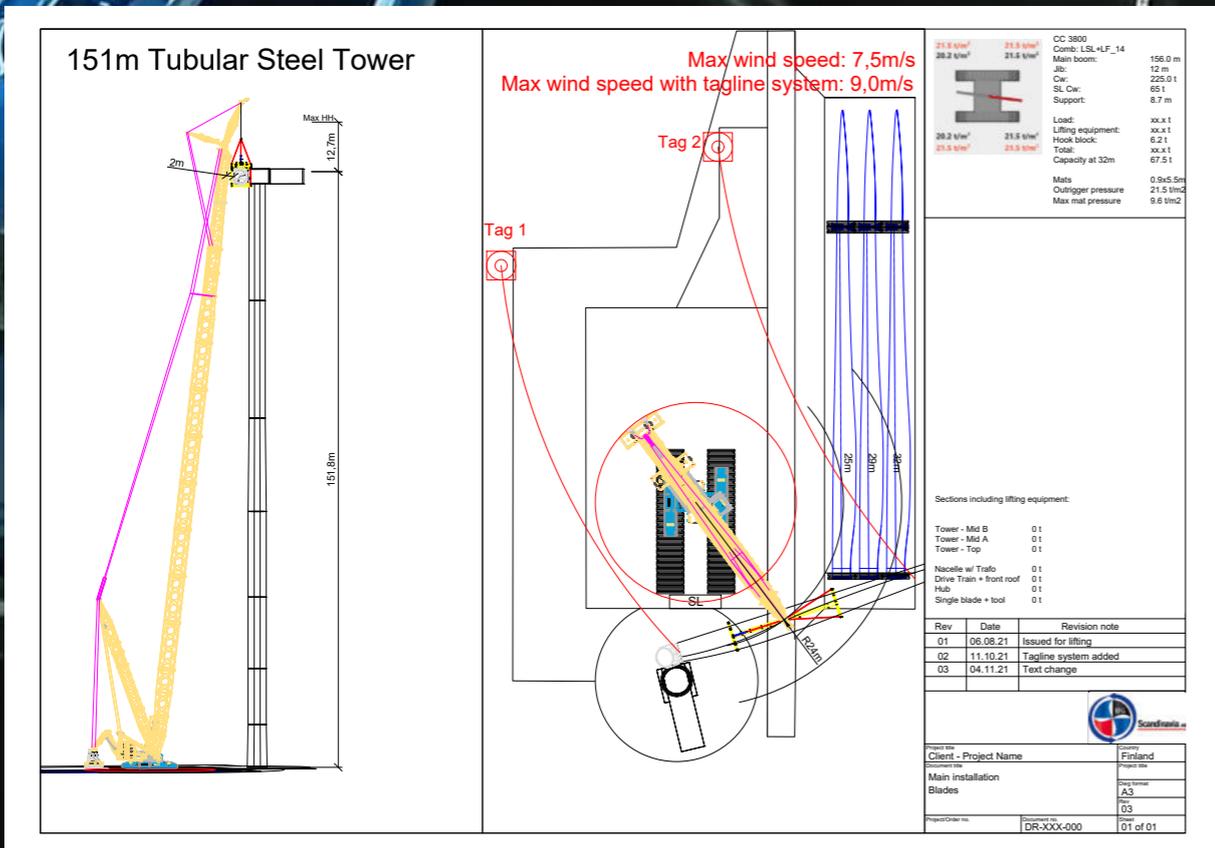
EMS-Fehn-Group member **EFG Heavy Haulage** has its own fleet of **modern trucks and trailers** and offers special transports all across Europe. The company has permanently deployed a number of vehicles to Scandinavia to assist with the installation of wind turbines.

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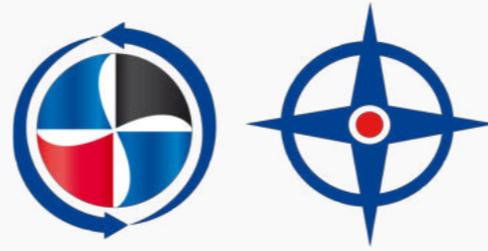


Operating its **own high-performance cranes** distinguishes EMS-Fehn-Group: Member company **EFG Scandinavia** provides customized crane services to the wind industry and has contributed to a number of large-scale projects in the north. In the course of five years, EFG Scandinavia played a vital role in the installation of 480 wind turbines in Sweden and Finland alone.

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EFG Scandinavia's own engineers are in charge of calculating lifting plans for operations on the construction sites.



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