

30 YEARS IN WIND POWER – PLANNING, NEGOTIATING, BUILDING, QA/QC, INSPECTIONS AND DUE DILIGENCE



The Best of Two Worlds!

Climbing and Inspecting Offshore Wind Turbines <-> deep knowledge of Offshore WTG for TSA and Escrow negotiations (WTG package management)

Site Manager offshore, SOV, and pre-assembly <-> As well first-hand knowledge for SMA negotiations

Many years banker's engineer and active on behalf of LTA <-> clear understanding for financial processes, legal dependencies, claim and warranty topics

In former times performance of wind measurements and WindPro calculations in several countries <-> understanding of wind park planning and wind yield calculations

Worked in 15 European and 5 Asian nations in wind <-> deep understanding of national specialities

Project and interface management for up to 1.2 billion € projects and team lead for up to 20 persons

20 Years of Turbine Inspections and Owner's Engineer – app. 1200 WTG in 14 Countries

- Recurring, end-of-warranty and end-of-lifetime inspections as well as inspections for due diligence / LTA
- On- and offshore, in Europe, Africa, South America and Asia
- Climbed app. 1200 turbines of app. 15 different manufacturers
- 2012 – 2019: owner's engineer for a German wind energy fund with app. 10 wind parks in Germany, Ireland and the UK
- 2015 – today: technical consultant for KfW and WTG inspections in Brazil, Vietnam, India, Myanmar, Kenya, Bosnia and Herzegovina, Egypt, Bosnia and Herzegowina, Brazil, India, South Africa



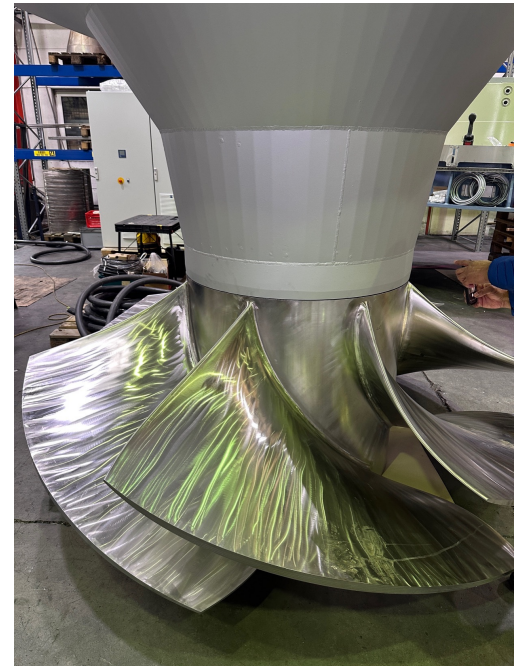
Due Diligence – app. 5 GW in 7 Countries, On- and Offshore

- 20+ years of due diligence of wind farm projects and large portfolios (up to 4 GW) all over Europe and beyond
- Due diligence of new turbine technology
- Site visits, including inspections of sample turbines and substations
- Review of financial models, grid connection and cable routes
- Support of buyers and lenders in all technical, techno-commercial and techno-legal aspects
- Negotiations of TSA, SMA and operational contracts



20+ Years QA/QC – in Factories and on Site

- 2004 – today: manufacturing surveillance, quality checks at factories, FATs
- 2010 – 2017: organizing the logistical and quality process, e.g. for switch gears (Amrumbank)
- 2023 – 2026: QC and test witnessing during hydropower turbine building and assembly, including quality audits (DIVE Turbinen)



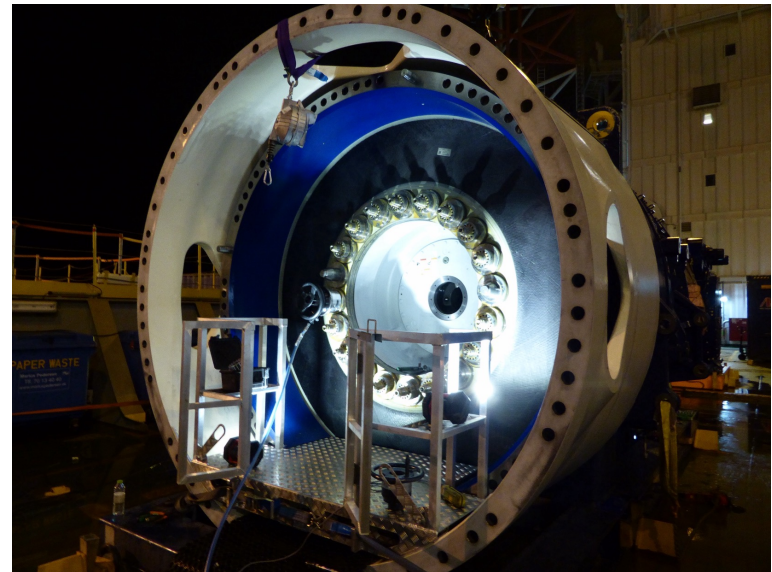
WTG Package Manager 2017 – 2024: France, Taiwan, Japan and Germany

- Several GW of TSA / SMA negotiations over a couple of billion €
- Team lead of up to 15
- Preparation of bid documents, wind park planning and micrositing
- Risk evaluations and financial modelling



Offshore Wind 2019 – 2025: SOV Site Management, Component Exchanges

- 2019 / 2024 / 2025: each year several weeks site management or supervisor on different SOVs, partly related to warranty claims
- Supervision of gearbox exchanges on V164/174 after serial damage – whole drive train taken out, app. 1 week per exchange with JUV
- Organisation and supervision of the replacement of a burned turbine over 6 months (for the owner)
- Hose exchange organisation over 2 years (over 8000 hoses for 80 WTG)



Following valid trainings / certificates do exist:

- GWO first aid
- GWO working at height incl. manual handling
- GWO fire awareness
- GWO Sea Survival
- HUET
- Offshore medical certificate
- FROSIO Level II (expired)
- Helicopter Winch-Training
- Slinger / Banksman training
- Welding inspector

