CTE WIND USA

Structural Engineering Design Office

EXPERTS IN **FOUNDATION DESIGN** FOR WIND TURBINES

Anchor Cage Design | High Pedestal | CATIII Verification | SOFT-SPOT® Solution Geotechnical Consultancy | Piles Design Rock Anchor

Responsive – Efficient – Reliable – Worldwide

WWW.**CTE-WIND-USA**.COM

5 REASONS
WHY CTE WIND

01.
Design experts since 2003

02.
Certified Design Method by DNV GL

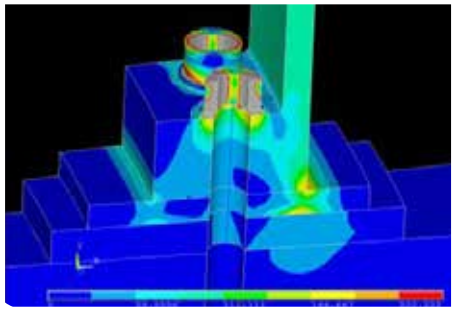
03.
Trusted relationship with OEMs

04.
No failures and 100% customer satisfaction

05.
Worldwide insurance liability

GEOTECHNICAL CONSULTANCY SERVICES

- Design of geotechnical campaigns
- Drafting of geotechnical studies
- Subcontractor management
- Geotechnical report execution
- Synthesis of soil values to choose the best foundation
- Verification of third party reports



OUTSTANDING SKILLS

- Independent design verification / Category III check
- Fatigue verification / Lifetime extension
- R&D Engineering / Design solutions for prototypes
- FEM analysis for new design and design refinement / verification

FORENSIC ENGINEERING

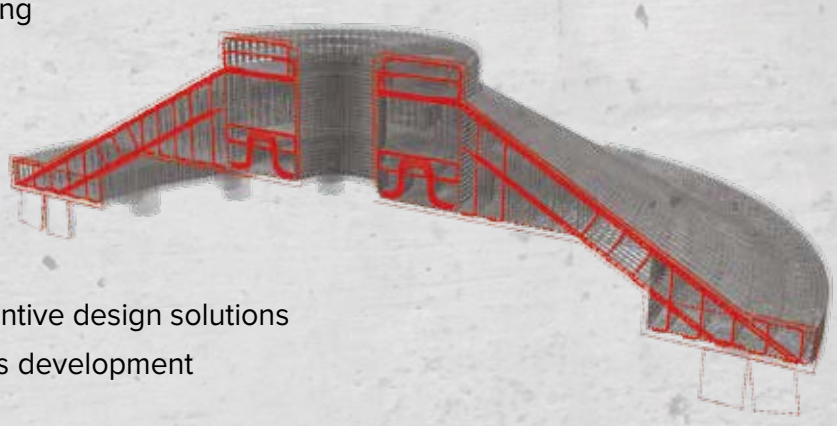
- Fact finding on site
- Root cause analysis assessments
- Establishing repair concept
- Site inspections to verify satisfactory repair

CONSTRUCTION QA / QC

- On-site construction and observation
- Construction quality assurance
- On-site reinforcement verification

FOUNDATION DESIGN SERVICES

- Preliminary and detailed designs following US standards and respecting specific wind guidelines
- Bill of quantities for tender phases
- P.E. Licensee for 20 US states and 3 Canadian provinces
- Resource-saving foundation design
- Time and cost reductions thanks to inventive design solutions
- Active participation in industry standards development



INVENTIVE DESIGN SOLUTIONS

High Pedestal / Plinth

SOFT-SPOT® Solution

Near-Shore Foundation

Rock Anchor Foundation

Octagonal Foundation

Anchor Cage Design

Piles Design

Concrete Tower Foundation

Circular Foundation

CERTIFICATION AND MEMBERSHIPS

RENEWABLES CERTIFICATION
DNV·GL
Statement no.
DB-DNVGL-SE-0074-04055-0

Wind EUROPE
AWEA AMERICAN WIND ENERGY ASSOCIATION
Asia Wind Energy Association
ASEAN ENGINEERING REGISTER
RUSSIAN ASSOCIATION OF WIND POWER INDUSTRY
aee
ORDEM DOS ENGENHEIROS
CREA-RS

CTE WIND IN FIGURES

17 500+
Wind Turbines

67
Countries

8
Local Offices

16
Languages Spoken

30+
Engineers

50%
Female Staff

80%
Senior-Level Know-How

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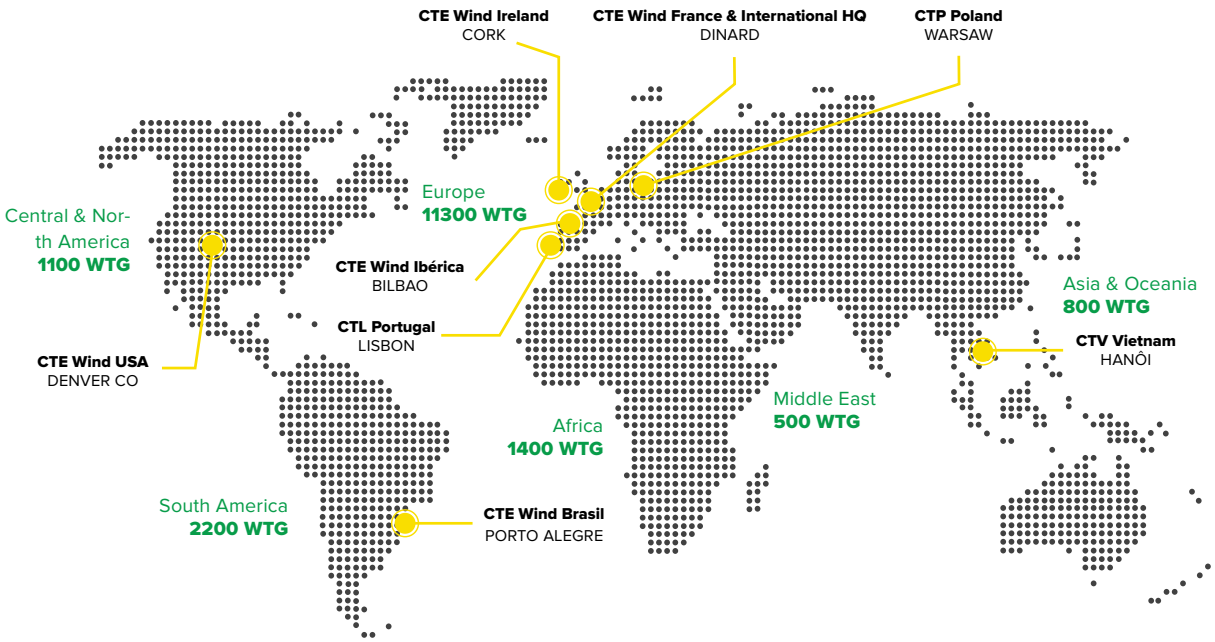

Engineering performed for most OEMs:

Vestas · SIEMENS Gamesa RENEWABLE ENERGY · GE · Clipper · ENERCON ENERGIE FÜR DIE WELT · NORDEX · acciona Windpower
SENVION · ENVISION · GOLDWIND · ALSTOM · LEITWIND · XEMC
Windtec Powered by AMSC · IMPSA · NENUPHAR · WEG · DDIS DIRECT DRIVE SYSTEMS · 上海电气 SHANGHAI ELECTRIC · EoleOverseas S.A.
VERGNET GROUPE · GROUPE Alizéo · WinWind · Fuhrländer · ecotècnia · eviag AG wind moves us
N·E·G MICON – for a powerful future · BONUS · aaer wind energy · REpower · EWT · ENO ENERGY · NRG PATAGONIA