

EXPERTS IN FOUNDATION DESIGN FOR WIND TURBINES

Anchor cage design | CTE-Sandwich™
Gravity Foundation | SOFT-SPOT™ Solution
Rock Anchor | High Pedestal | Piles design
CAT III Verification | Geotechnical Consultancy

Reliable – Efficient – Responsive – Worldwide

WWW.CTE-WIND-USA.COM

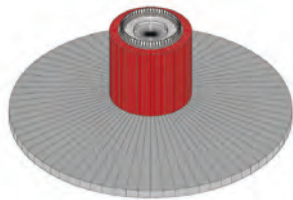


FOUNDATION DESIGN SERVICES

- Preliminary and detailed designs following international standards
- Bill of quantities for tender phases
- Respecting specific wind guidelines and local country regulations
- Resource-saving foundation design
- Time and cost reductions thanks to inventive design solutions
- Participation on standardization committees



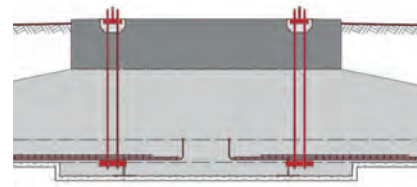
INVENTIVE DESIGN SOLUTIONS



High Pedestal / Plinth



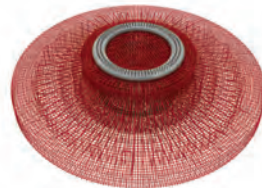
SOFT-SPOT® Solution



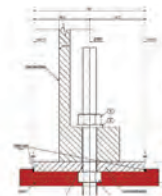
CTE-Sandwich™ Solution



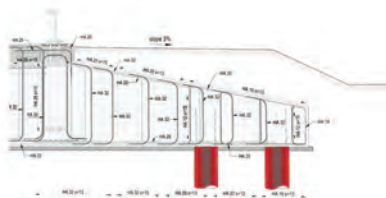
Rock Anchor Foundation



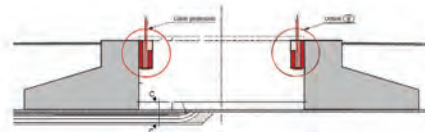
Optimized Gravity Foundation



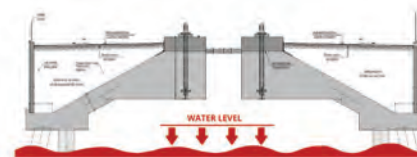
Anchor Cage Design



Piles Design



Concrete Tower Foundation



Near-Shore Foundation

CTE WIND IN FIGURES

27 500+
Wind Turbines

75
Countries

8
Local Offices

16
Languages
Spoken

40+
Engineers

50%
Female Staff

80%
Senior-Level
Know-How

5 REASONS WHY CTE WIND

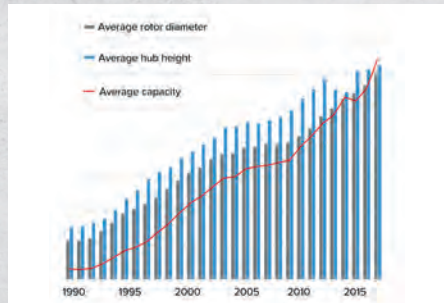
01.
Design experts
since 2003

02.
Certified Design
Method by DNV

03.
Trusted
relationship with
OEMs

04.
No failures and
100% customer
satisfaction

05.
Worldwide
insurance liability



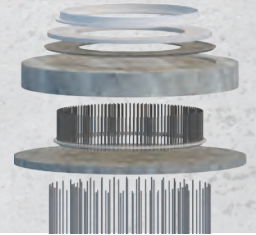
REPOWERING & LIFETIME EXTENSION

For all WTG-foundation types:

- Fatigue verification
- Lifetime extension
- Repowering

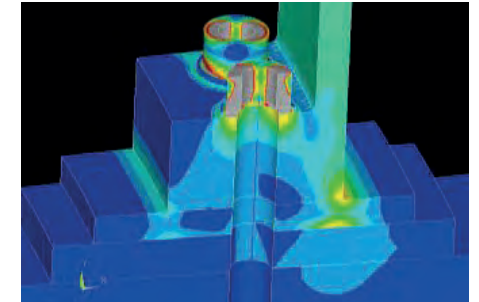
GEOTECHNICAL CONSULTANCY SERVICES

- 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



FORENSIC ENGINEERING

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



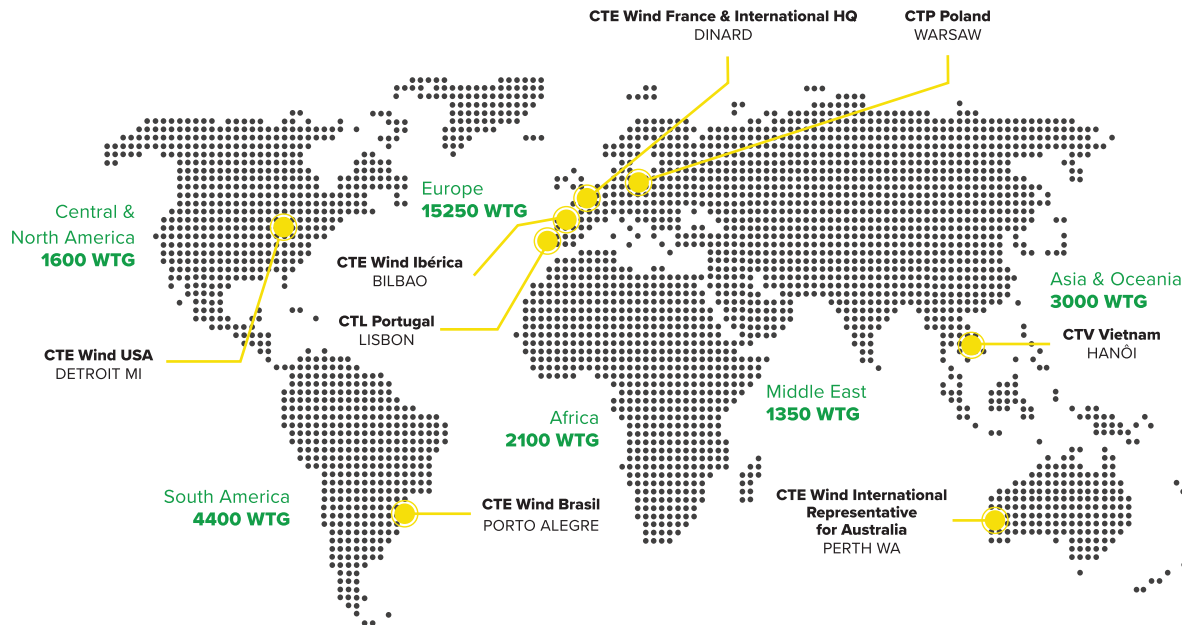
OUTSTANDING SKILLS

- Independent design verification / Category III check
- Reinforcement verification and on-site construction QA / QC
- R&D Engineering / Design solutions for prototypes
- FEM-Analysis for new design and trouble shooting



+1 (586) 909-6729 | northamerica@cte-sa.com | CTE-WIND-USA

CTE WIND USA, INC



Engineering performed for most OEMs:



Recommendation letters and references available upon request.



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