



TATA CONSULTING ENGINEERS
ENGINEERING A BETTER TOMORROW™

Renewable Power



REPOWERING WIND ASSETS

Bringing new life and stronger
performance to ageing
infrastructure

Who We Are

Established in 1962, Tata Consulting Engineers (TCE) is a global engineering consultancy delivering integrated solutions across energy, infrastructure, industrial and advanced facilities. Part of the Tata Group, we bring over six decades of experience across the full project lifecycle, from concept and design to commissioning and asset optimisation. We have supported large-scale power and renewable projects worldwide, helping clients modernise existing assets and improve performance while ensuring safety, reliability and long-term sustainability.

Our dedicated wind team focuses on repowering initiatives, combining engineering depth with practical project experience to enable efficient upgrades and smooth execution.

What We Offer

We help upgrade existing wind installations to improve output, extend asset life and ensure reliable grid integration.

Substation and electrical
upgrades to support increased
generation

Repowering design with optimised
turbine foundations suited for
higher-capacity machines

Efficient and reliable power
evacuation planning

Grid compliance studies for wind,
hybrid systems and storage
integration

Performance improvement
through layout optimisation and
capacity enhancement

Integration of hybrid solutions
and energy storage where
required

Our Services

- Feasibility studies and detailed project reports for repowering initiatives
- Basic engineering across electrical, civil and mechanical works, including micro-siting and layout optimisation
- Pre-bid engineering support
- Technical due diligence and turbine selection studies
- Detailed engineering and procurement support
- Owner's engineering services
- Inspection at manufacturing facilities
- Power system studies and protection coordination for wind and hybrid systems
- Grid planning, collector system design and evacuation studies

Why TCE



Over 50 GW of renewable energy

delivered worldwide, including 10 GW of wind energy



Experience across large-scale

wind and renewable projects including repowering and grid upgrades



End-to-end involvement

from early assessment and design through to commissioning



Ability to manage

complex upgrades while maintaining ongoing operations



Integrated expertise

across civil, electrical and grid systems for coordinated delivery



Start your **repowering** journey with us!

Get in touch with us at

✉ tceconnect@tataconsultingengineers.com

🌐 www.tataconsultingengineers.com