

Life Cycle of a Wind Farm

• Hardening

OT Cybersecurity

- OT Security Program Management (PM)
- OT Security Management Plan (OSMP)
- Vendor Management Plan (VMP)

Safety Risk Analysis

- Safety Studies
- HAZID, HAZOPs
- Onshore Safety Case
- Independent Design Reviews
- Regulatory Compliance
- Component Certification

Technical Risk Analysis

- Third Party Endorsement
- Structural Integrity
- Gap Analysis

Risk Management

- Engineering Analysis
- Project Management
- CVA
- Owner Rep
- Due Diligence



Lifecycle of a Wind Farm

Reliability

- PM and SOP Analysis
- Asset Strategy Optimization
- Planning and Scheduling
- Initiate CMMS
- Data cleansing and loading

Risk Management

- RBI Development
- CVA
- ISIP
- AIM
- Life Extension
- Root Cause Failure Analysis

Safety Risk Management

- Safety Studies (HAZOP, HAZID)

Technical Risk Analysis

- Engineering Substantiation of Plant and Equipment
- Civil-Structural Design and Assessment

Reliability

- CMMS Data Remediation

Risk Management

- Aging Asset Life Extension
- Rerate, Repair, Alteration Calculations
- AIM / MI Program Gap Analysis
- Regulatory Requirements Audit