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*"The Future of
Critical Bolting"*

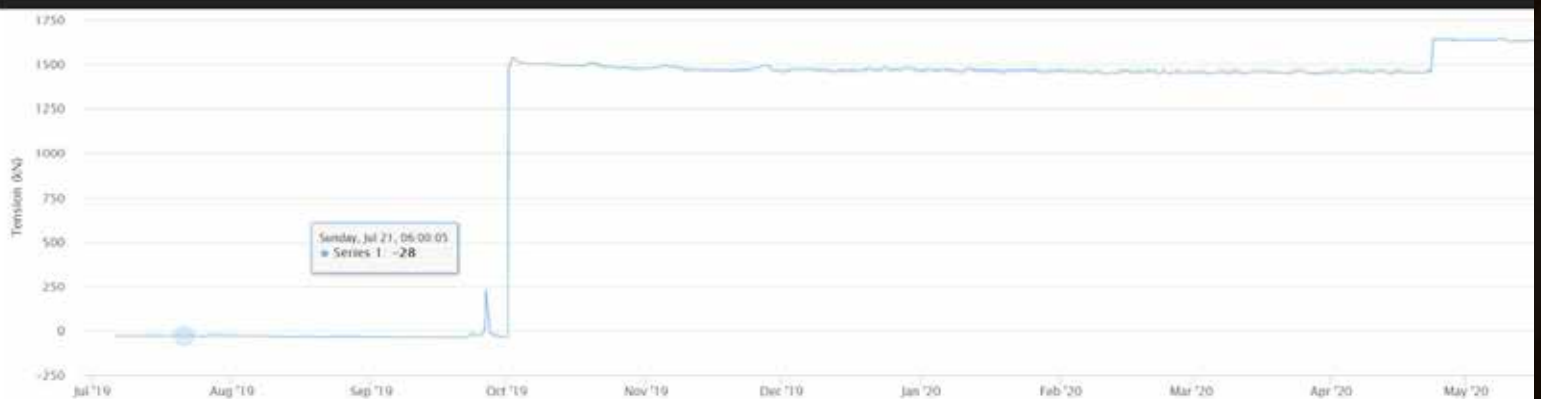
ORE Catapult's 7MW Levenmouth Demonstration Turbine
(Credit: ORE Catapult)



- 75MW Wind Turbine, Levenmouth (UK)
- 7 X instrumented M72 bolts installed on the wind turbine tower
- Measuring bolt tension and temperature since 2019
- Login now to check bolt tension live at <https://gdn.jrdltd.co.uk/>
Username: orec
Password: QJ5ANv4Xjg

"Our Levenmouth Demonstration Turbine allowed this technology to demonstrate how it sends instant alerts if bolt preload drops below a predefined level, allowing operations and maintenance teams to act instantly to re-tighten the bolt and address any underlying issues." - Chris Brown
Asset Manager, ORE Catapult

≡ Tension Trend



c.1500 kN when bolts were installed, followed by light relaxation and subsequent re-torquing.

Wind Turbine Application: Foundations, Towers, and Blades

- Operations and maintenance costs account for >30% of Levelized Cost of Energy
- Up to 90% of expenditure results from manual inspections
- LMF⁺ provides continuous monitoring, reducing manual checks and associated costs