



BOLTED CONNECTIONS

HITTING THE TARGET

Pete Andrews





Wind Turbine Fastener Inspection

- Eliminate retightening
- Improve safety
- Reduce costs
- Increase production



GE Renewable Energy



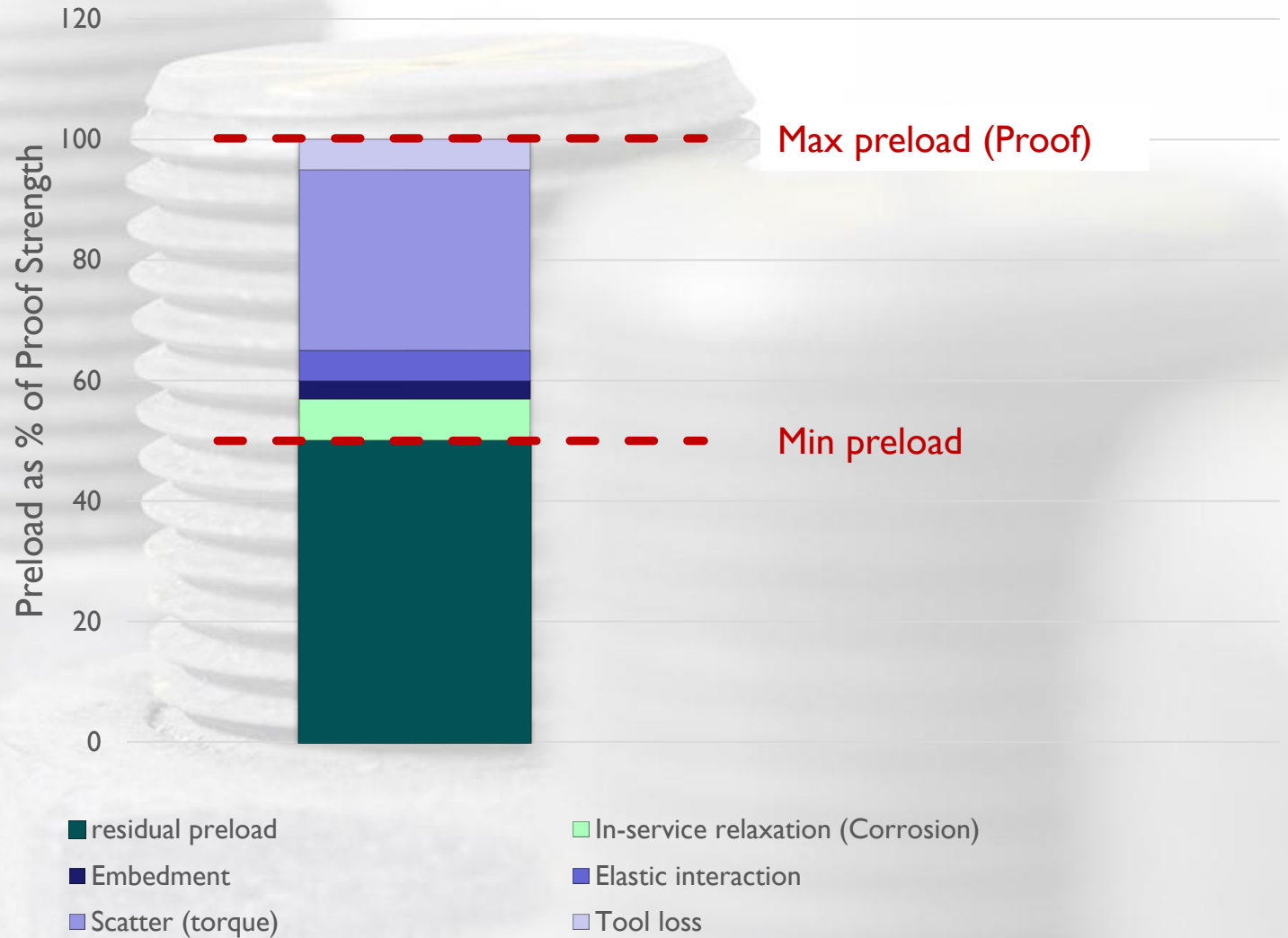






WHY STRUCTURAL FAILURES OCCUR

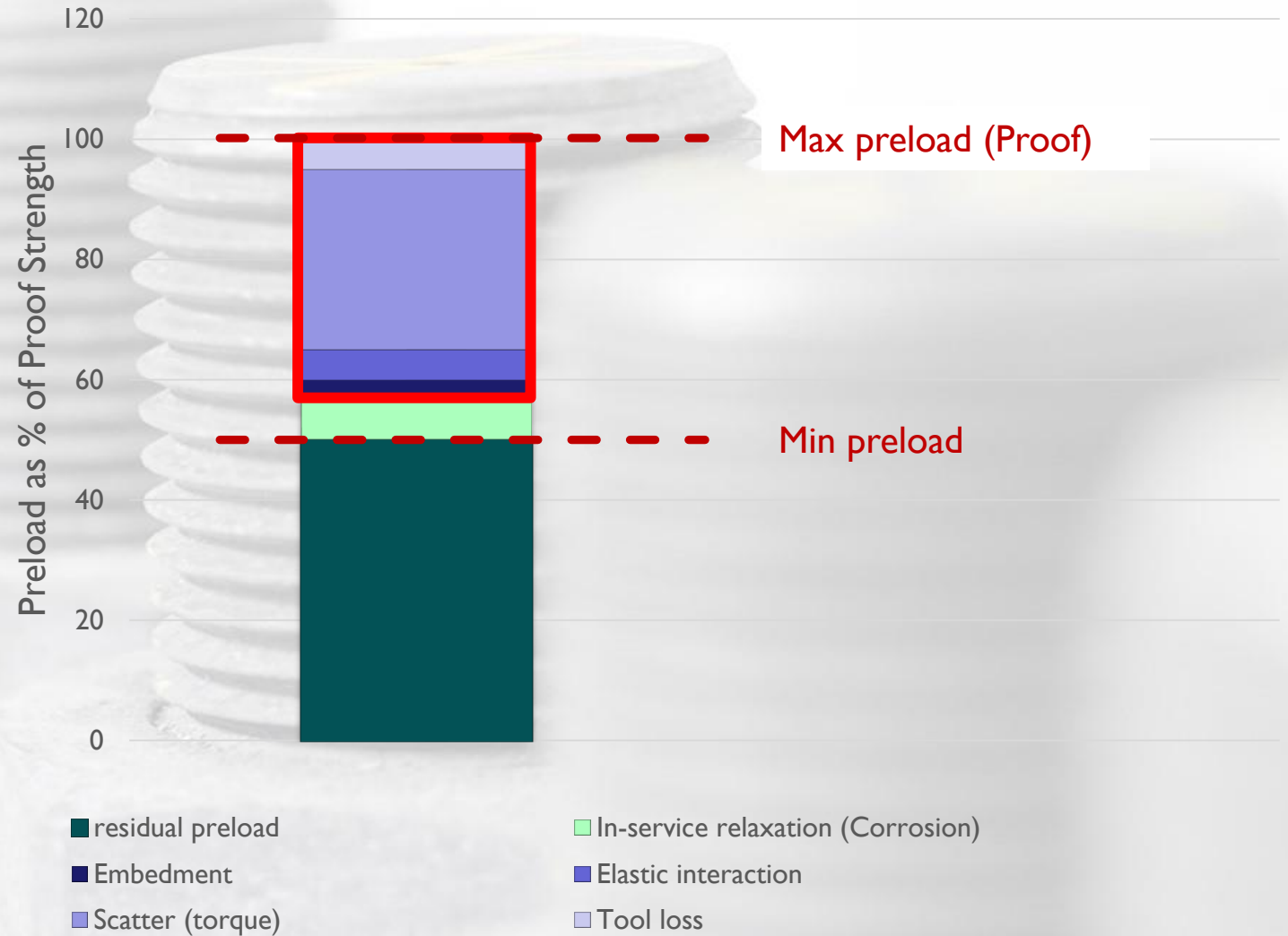
PRELOAD LOSSES





WHY STRUCTURAL FAILURES OCCUR

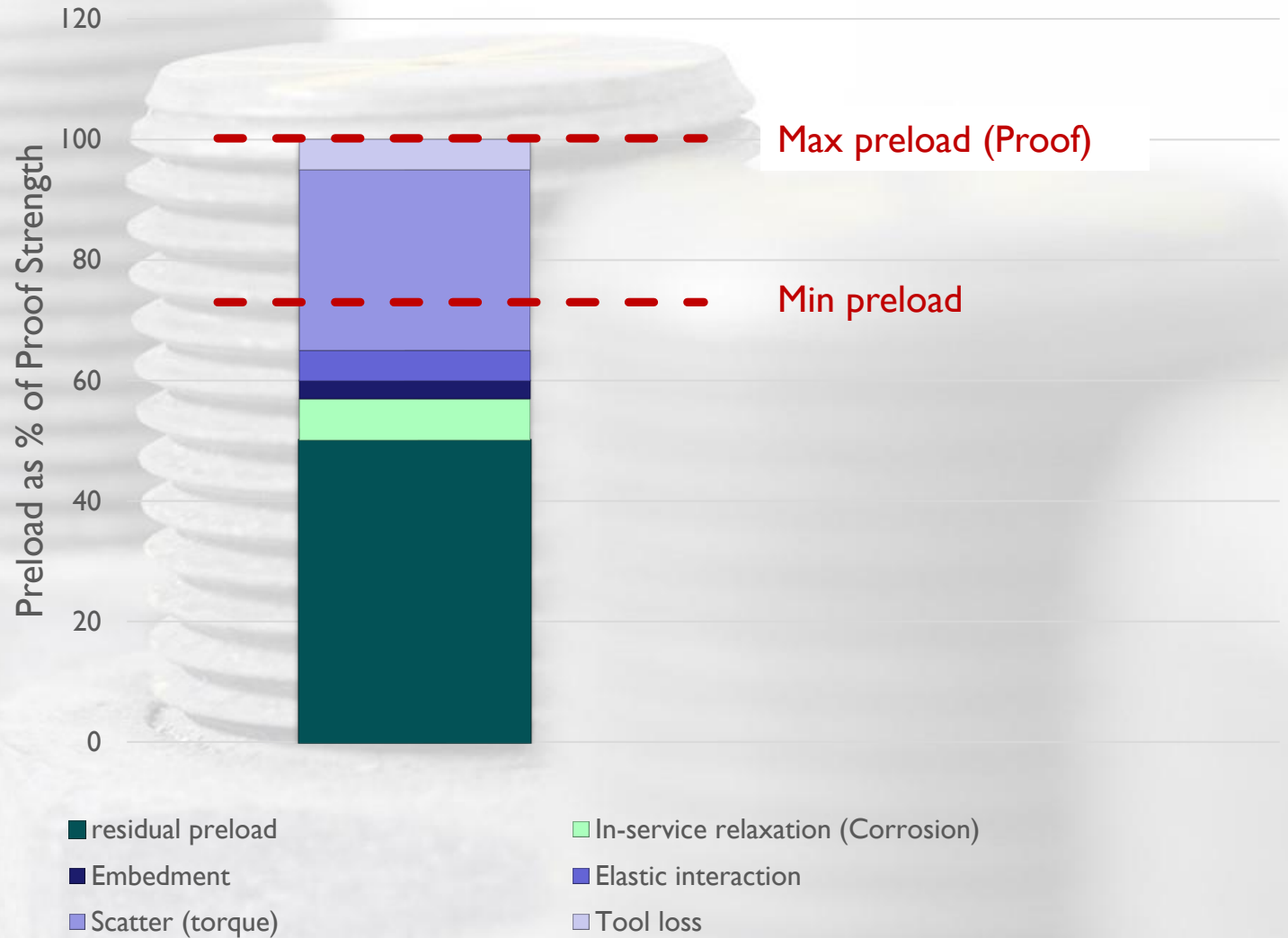
PRELOAD LOSSES





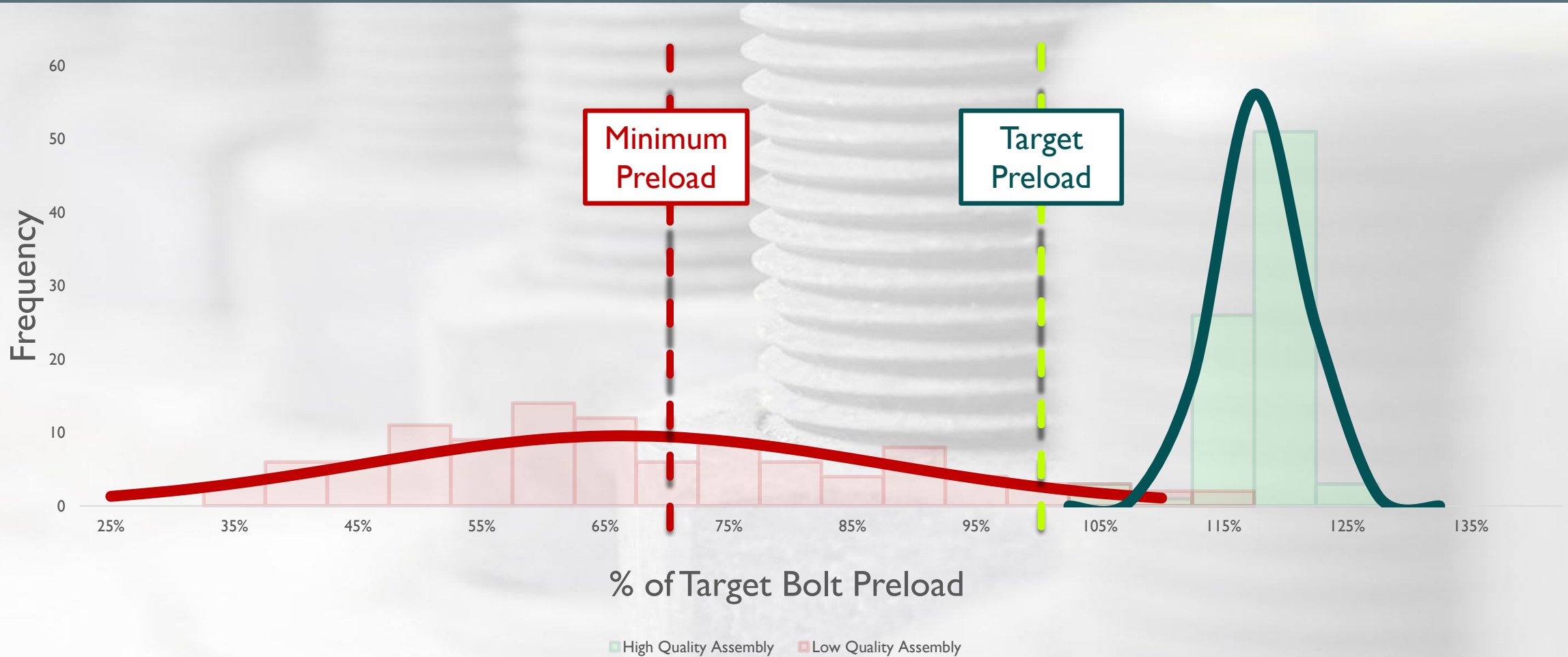
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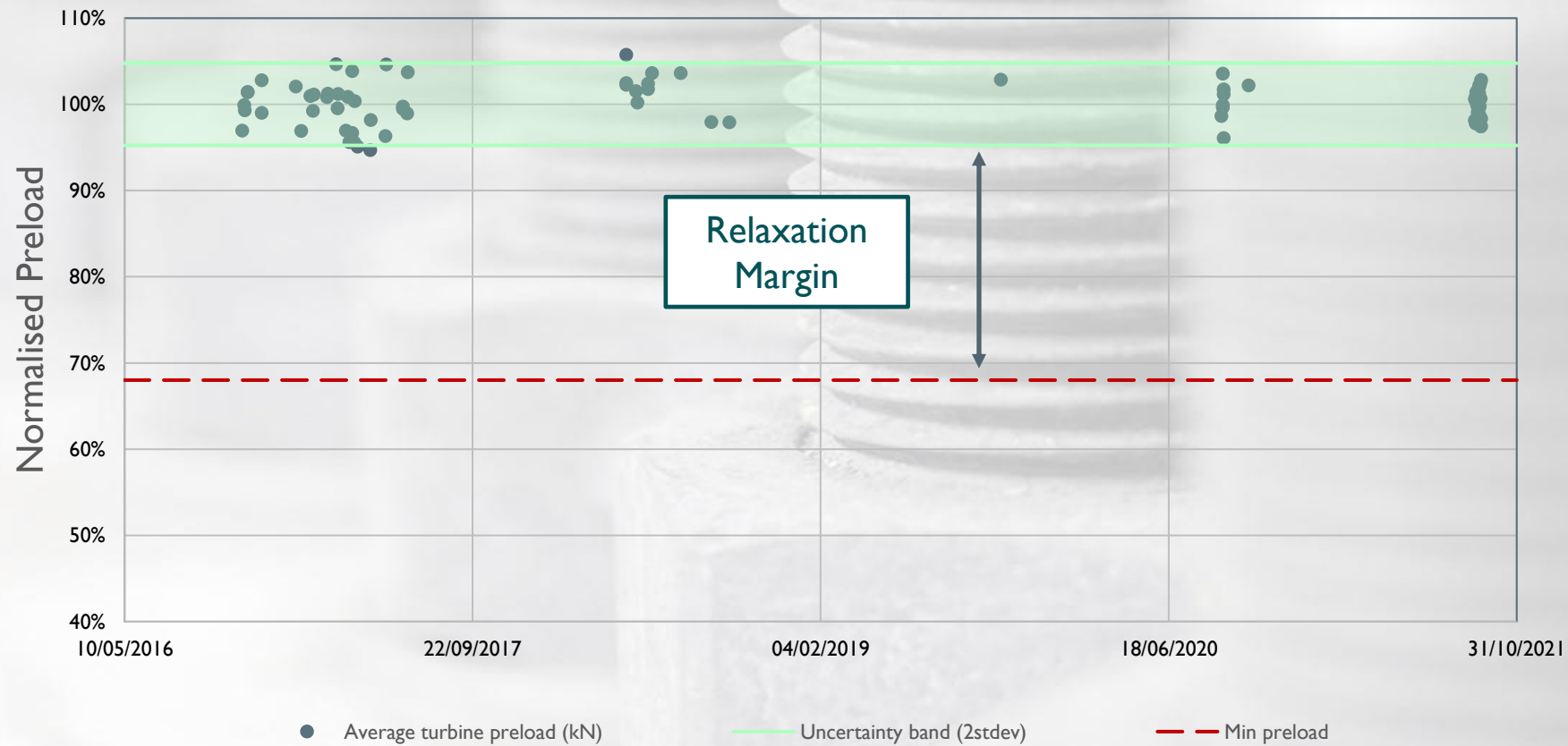


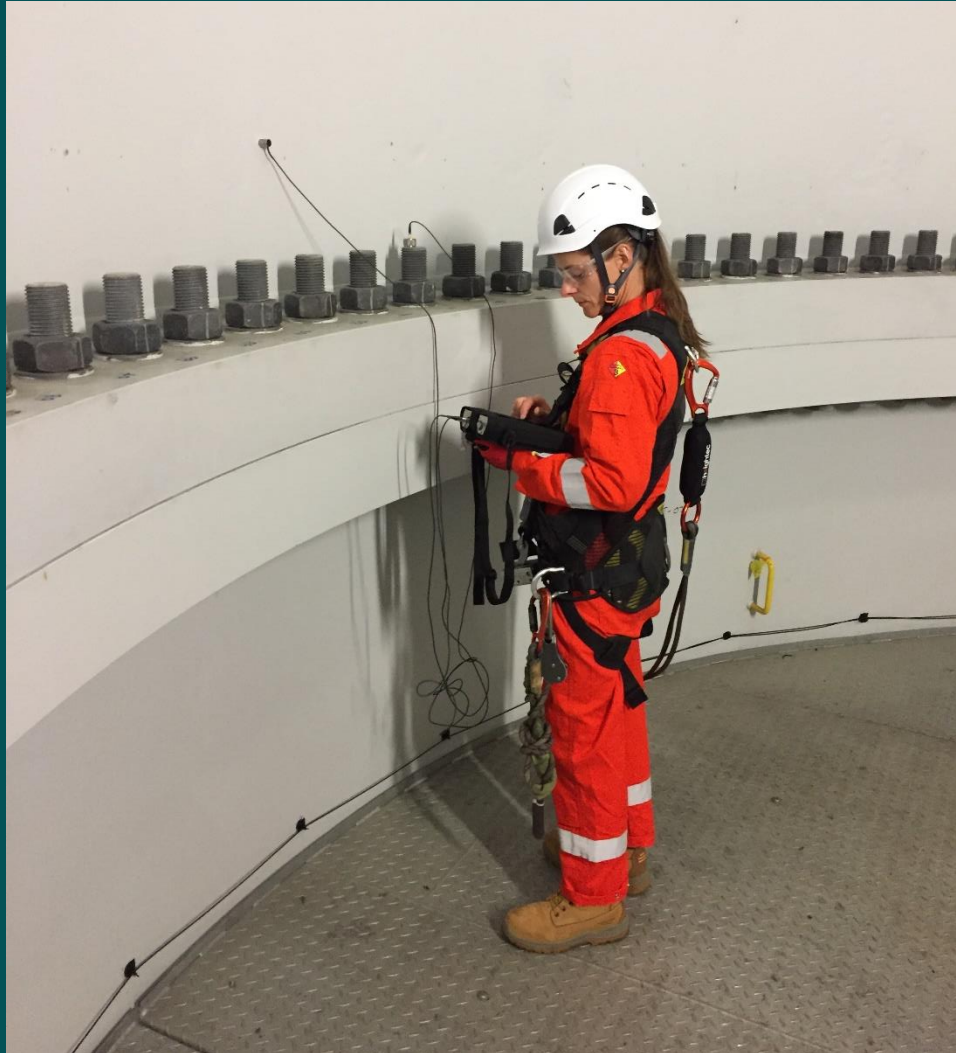


SCATTER WITH DIFFERING INSTALLATION PRACTICES



CASE STUDY – 5 YEARS PRELOAD MONITORING





Preload validation in the
operational environment
is key!!



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