CORTIR III International Conference Agenda

1½ Day Conference | 29 - 30th October 2026

Thon Partner Hotel Høje Taastrup

CORTIR III is organised as a 1½-day international conference which is a closing event presenting results from the project. The first half-day is dedicated to presentation of the CORTIR III deliverables and technical results, while the second day focuses on wider industry discussion through panels and invited contributions from relevant partners and stakeholders across the wind industry. The conference is designed to link project findings with the broader challenges of blade reliability, structural risk, and decision-making in practice.

Most value in wind assets is not lost at failure. It is lost much earlier, in decisions made under uncertainty. This conference is about how to make those decisions with confidence, when blade data is incomplete, signals are mixed, and the cost of being wrong is high.

If you are accountable for availability, safety, and budget, this conference is for you.

You will leave with a clear, practical way to make blade decisions under uncertainty, without over-reacting, over-spending, or waiting for data that never fully arrives.

Specifically, you will gain:

- **A risk-based decision insight.** A structured way to decide when to act, when to wait, and when not to touch, grounded in real blade reliability work from the CORTIR III project.
- **Confidence before failure, not after.** Learn how revenue is protected before damage becomes critical, by focusing on risk trajectory rather than today's snapshot.
- **Clarity on where money actually matters.** Understand how to treat maintenance budget as a risk strategy, avoiding both over-maintenance today and surprise failures tomorrow.
- **Signal over noise.** Learn how to separate structural risk from inspection noise, so attention and capital go where they create real value.

This is not about producing more analysis. It is about making better decisions earlier. Practical solutions to reduce the structural risk associated with known blade failure modes will also be discussed in the context of when they meaningfully change the risk picture, when they do not, and how they should be evaluated as part of a broader risk-based decision framework.

Registration is free of charge | Please contact lorena.mestrovic@res-group.com

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A central highlight is the full-scale torsional fatigue test on an 88m blade, led by Bladena and performed at ORE Catapult test center. This test replicates realistic loading on a large blade and provides rare validation of what actually works as a risk mitigation measure, not just what looks good on paper.

Reinforcement solutions (two tested in 88m blade) for very large blades are discussed not as products, but as options within a broader risk and value framework.

This is not only a technical deep-dive. It is also a forum for:

- Asset owners and operators
- Commercial and O&M leaders
- Strategy, risk, and investment decision-makers
- People who are accountable for outcomes, not just inputs.

The work presented is made possible through funding from the Energy Technology Development and Demonstration Programme (EUDP).

You won't leave with more slides, you'll leave with better judgment under uncertainty, grounded in results over promises, evidence over opinion, and physics over assumptions.

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Day 1 | 29 October 2026 - Thon Partner Hotel Høje Taastrup

12.30 - 13.00	**ARRIVAL**
13.00 - 13.35	**Welcome and introduction to the project** • Framing of the day's topics • Bladena Design Philosophy • Roadmaps Find Jensen (Bladena)
13.35 - 13.55	**Product development - D-Stiffener™** • Motivation: why a solution is needed (field damages) • D-Stiffener™ product development Tamas Nagy (Bladena)
13.55 - 14.20	**In-plane & 4-point bending tests of blade panels - testing at DTU to support the product development** • Test results in fatigue loading of blade panels • Impact of wrinkles under bending Tamas Nagy (Bladena)
14.20 - 14.50	**Bladena Design Philosophy applied** Margrethe Werk (Bladena)
14.50 - 15.15	**COFFEE BREAK**
15.15 - 15.45	**4m section test and full-scale test** • Large-scale test specimen: cross sectional shear test by DTU and Bladena, triggering CSSD and out-of-plane panel bending • Lattice Bars™ and what they do: trial installation • Full-scale 88m blade under torsional load: test setup • D-Stiffeners™ installed • Full-scale 88m blade under torsional load: results • Outcome and value Prinutha Narayanan and Margrethe Werk (Bladena)
15.45 - 16.20	**Field measurements and FEM validation - 7 MW Levenmouth Demonstration Turbine (83.5m blades), ORE Catapult** • Measurement placements and FEM validation • Model calibration Margrethe Werk (Bladena)
16.20 - 16.30	**Closing Day 1 - evaluation and discussion** Find Jensen (Bladena)
18.00 - 21.00	**DINNER** Hereford Steak House, Taastrup Hovedgade 106, 2630 Taastrup

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Day 2 | 30 October 2026 - Thon Partner Hotel Høje Taastrup

8.30 - 9.00	**BREAKFAST**
9.00 - 9.10	**Welcome and introduction** Find Jensen (Bladena)
9.10 - 9.40	**Estimation of blade lifetime with validation process** • Steps 1 to 7: extensive evaluation for new blades lacking field data • Steps 1 to 3: relevant use of field data to update lifetime estimations • Step 8: solutions (extending lifetime) Margrethe Werk (Bladena)
9.40 - 10.10	**Full-scale test on 88m blade with torsional loads, with the Lattice Bar™ installed** • Test of a solution to mitigate local phenomena: CSSD and out-of-plane panel bending • Results with Lattice Bars™ Find Jensen (Bladena)
10.10 - 10.35	**COFFEE BREAK**
10.35 - 10.45	**Setting the scene: "The Certification Gap" and the blade value chain** • What the conventional industry approach assumes vs. what field experience shows • Where value is lost in the blade lifecycle (data, decisions, downtime, risk) Find Jensen (Bladena)
10.45 - 12.00	**Panel discussion #1** **"The Certification Gap" between the conventional indutsry approach and Bladena's field experience** Panelists: Tim Berend Block (Nordex), Vasu Datta (Shanghai Electric), Theodorus Kolonas (OX2), Erik Steen Jensen (Blaest), Matthew Hadden (ORE Catapult), John Dalsgaard Sørensen (AAU) Chair: Find Jensen (Bladena)
12.00 - 12.50	**LUNCH**
12.50 - 13.00	**Short introduction to session** Find Jensen (Bladena)
13.00 - 13.20	**State-of-the-art NDI by Apave - IRIS** Lars Vesth (Apave)
13.20 - 13.40	**State-of-the-art measurement technique (BODEM) measuring local cross-section deformation and Acoustic Emission** Matthew Hadden (ORE Catapult)
13.40 - 14.00	**Joint discussion / Q&A (IRIS NDT + ORE Catapult sessions)** Chair: Find Jensen (Bladena)
14.00 - 14.25	**COFFEE BREAK**

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14.25 - 14.45	**Setting the scene: Risk & reliability – from data to decisions** • Why risk & reliability framing matters for blade lifetime decisions • How field data and model calibration translate into actionable risk metrics • What decisions this enables (inspection, maintenance, retrofit, operation) Andrei Buliga (Bladena) and John Dalsgaard Sørensen (AAU)
14.45 - 15.45	**Panel discussion #2** **Blade decisions under uncertainty - how operators make decisions when the data is never complete** Panelists: Wouter Haans (Shell), John Dalsgaard Sørensen (AAU) Chair: Andrei Buliga (Bladena)
15.45 - 16.00	**Summary and closing remarks** Find Jensen (Bladena)
16.00	**EVENT CLOSE**

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