



An intensive measurement campaign at the Klim Wind Farm Part 1

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Objectives

- **S**ensor **A**ssisted **W**indfarm **O**Ptimization
- SAWOP
- Forward facing nacelle LiDARs
- Spinner anemometer
- Underperformance
- Free stream & Wake conditions
- Wake steering applications
- Wind farm simulations



Partners



ROMO WIND

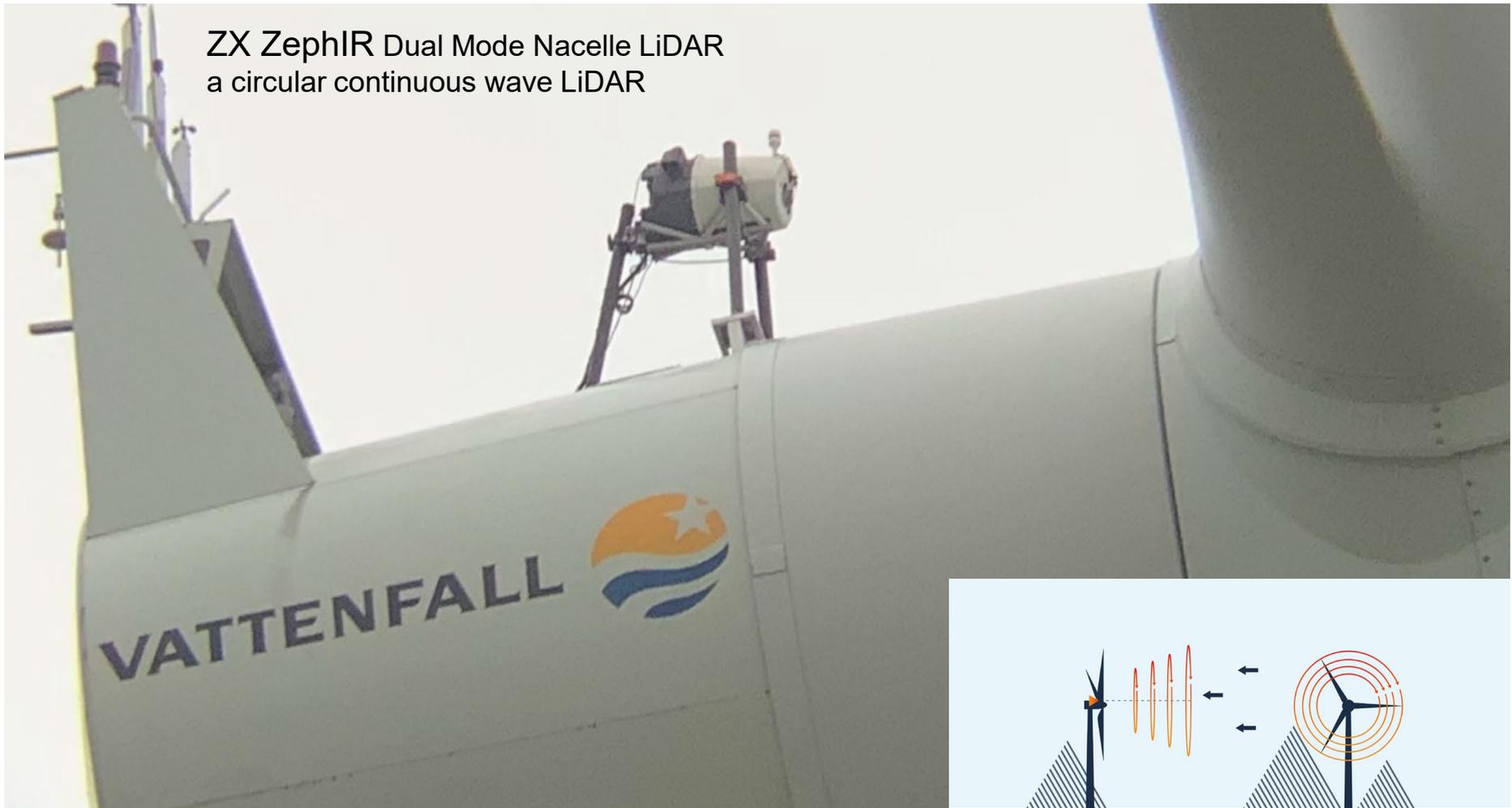
VATTENFALL 

The Vattenfall logo icon, which is a circle split horizontally into a yellow top half and a blue bottom half.

Sponsor



ZX ZephIR Dual Mode Nacelle LiDAR
a circular continuous wave LiDAR



Leosphere WindCube Nacelle LiDAR
a four-beam pulsed LiDAR



ROMO Wind iSpin
spinner anemometer



Leosphere
WindCube Scan
Model 200s
Range 6 km

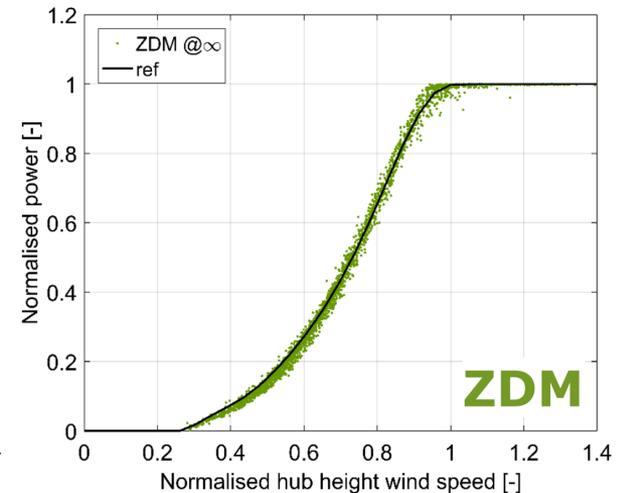
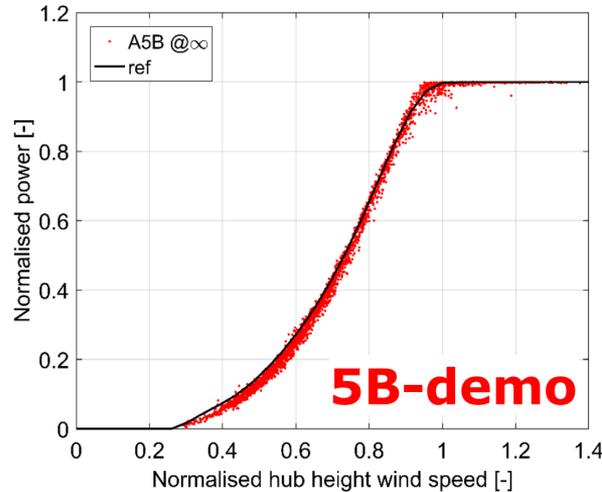
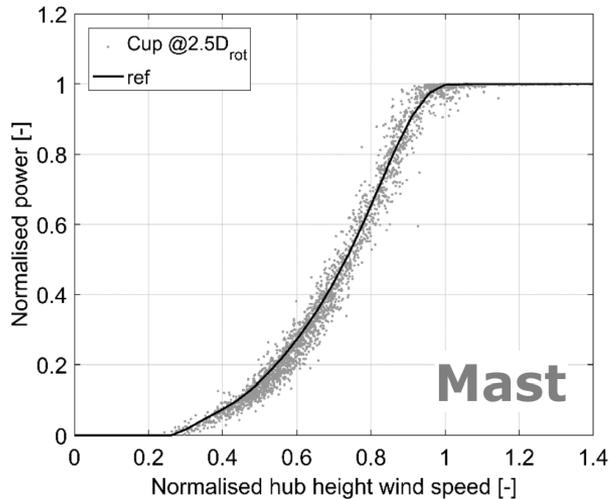


ZephIR ZX 300 onshore wind Lidar





Power curves UniTTe 2014-2018 Nørrekær Enge



Conclusions Expectations

- System up and running, first data in database
- Comparison of LIDAR and iSpin in free stream and wake conditions
- Guidelines of IEC 61400-50-3 used for white box calibration
- Optimization of the production
- Knowledge on wake steering

