



TEM#93: December 13th 2018, DTU, Denmark

Program

December 12th

Networking dinner starting at 19:00.

Practical details will be communicated as soon as available.

December 13th @DTU Riso in Roskilde

H.H. Koch Meeting Room, Bld. 112, Risø Campus, Technical University of Denmark (DTU),

Frederiksborgvej 399, Roskilde 4000, Denmark

8:15 Coffee

8:30 Welcome and Opening of TEM 93 (Anand Natarajan, DTU/Lionel Perret, IEA Wind/Planair)

8:45 Presentations – I : Wind Farm Perspective

8:45 Wind farm owner perspective: Business case life extension (Jan-Hendrik Wunsch, European energy)

9:00 Overview and potential for life time extension of wind farms in Europe (Ivan Komusanac, Wind Europe)

9:15 Site specific evaluation of design life (Thomas Krogh, Orsted)

9:30 Bellacorick Wind Farm (Shane Holden, Bord na Mona)

9:45 YR21 Investment Decision Support for Next Generation Wind Farming / Economic Contingency Planning For Wind Farm Life Extension and Investment Decision Support (Rupp Carriveau / Lindsay Miller, University of Windsor)

10:00 2030: End-of-life wind power capacity and wind energy target in Italy (Laura Serri, RSE S.p.A.)

10:15 The status of simulation method and modeling in China (Xu Honglei, Goldwind)

10:30 Coffee Break

10:45 Presentations – 2 : Wind farms to wind turbines

10:45 Results from the LifeWind Project: Data driven analysis (Anand Natarajan, DTU)

11:00 Wind turbine rotor re-blading for lifetime extension, (Alessandro Croce, Politecnico di Milano)

11:15 Life-time extension by retro-fitting a load-reducing real-time controller (Axel Schild, IAV GmbH)

11:30 Wind turbine Lifetime Extension: The importance of full scale validation (Dominic Bolduc, Nergica)

11:45 White Etching Area cracks in bearings and other failure modes (Paul Veers, NREL)

12:00 Summary of existing standards relevant for life extension (Jannie Nielsen, AUU)

12:15 Control methods to enhance life time extension of wind turbines (Vassilis Pettas, Universität von Stuttgart)

12:30 Lunch

13:15 Break-out Session 1 (Modeling for remaining life prediction, H.H. Koch room)

Group Leader: Nikolay Dimitrov

13:15 Brief Outline of Objectives (Nikolay Dimitrov, DTU)

13:20 Presentation 1: Remaining lifetime prediction modelling. A case-study. (Takis Chaviaropoulos, NTUA)

13:30 Presentation 2: Remaining useful lifetime from standard turbine signals (Michael Muskulus, NTNU)

13:40 Presentation3: Estimation of remaining lifetime, models versus observations (Nikolay Dimitrov, DTU)

13:50 Group Discussion on methods for predicting remaining life

14:45 Prepare Presentation for Forum

13:15 Break-out Session 2 (Inspection methods and component damage, Christian Riisager room)

Group Leader: Ignacio Marti

13:15 Brief Outline of Objectives (Ignacio Marti, DTU)

13:20 Presentation 1: Effects of defects and damage on wind blade laminates (Joshua Paquette, SNL)

13:30 Presentation 2: Standardization of inspection and maintenance procedures for rotor blades (Kyle Wetzel, Wetzel Wind Energy Services)

13:40 Presentation 3: Probabilistic calculation of remaining sub structural lifetime based on strain measurements (Clemens Hubler, Universität von Hannover)

13:50 Group Discussion on methods for predicting remaining life

14:45 Prepare Presentation for Forum

13:15 Break-out Session 3 (guidelines for standardization on lifetime extension, Ole Rømer Room)

Group Leader: Anand Natarajan

13:15 Brief Outline of Objectives (Anand Natarajan, DTU)

13:20 Presentation 1: Reliability- and risk based life extension approaches (John Dalsgaard Sørensen, AUU)

13:30 Presentation 2 : Best practices for life management and assessment for extended operation of wind farms (Mark Spring, Lloyds Register)

13:40 Presentation3 :The technical specifications for wind turbine lifetime extension of CGC (Fu Pengcheng, China General Certification Center)

13:50 Group Discussion on methods and guidelines for standardization

14:45 Prepare Presentation for Forum

Plenum Continues

14:45 Coffee

15:10 Presentation on Methods and modeling for remaining life prediction (Group 1)

15:20 Presentation on Inspection methods and Component Damage (Group 2)

15:30 Presentation on guidelines for standardization on lifetime extension (Group 3)

15:40 Discussion on enabling lifetime extension in the context of IEA (All)

16:30 End of Meeting

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