

Scenarios:

1

2

Model validation

Available data:

Free-stream wind speed data  
+  
Generic aeroelastic model

Site load measurements

Location-specific wind load measurements  
+  
Generic aeroelastic model

Simulation groups:

'A'

-

'B'

Fatigue load assessment method:

Using Frandsen turbulence and generic model to perform aeroelastic simulations

Obtaining mid-term fatigue load distribution from measurements and extrapolating to 30 years

Sampling turbulence in each wind speed in bin 1 and running simulations