

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