

# Welcome

Andreas Bechmann , Jacob Berg, Mike Courtney, Hans E. Jørgensen, Jakob Mann, Pierre-Elouan Rethore, Niels N. Sørensen and many others ...



**Risø DTU**  
National Laboratory for Sustainable Energy

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**Vestas**



This day, two years ago ...





This day, two years ago ...





This day, two years ago ...





This day, two years ago ...



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This day, two years ago ...



# Thank You!

- **Energistyrelsen (Danish Energy Agency)**
- **Vestas Technology R&D**
- **Thank you modelers!**  
Preparation time: 652 hours  
Comp. time: 587 days



# Submitted Results

52 model results!

## Model types:

- 3: Experimental method {
  - 1: Wind tunnel
  - 1: Flow channel
- 3: No answer
- 9: Linearized flow model
- 0: Mesoscale model
- 37: Non-linear CFD model {
  - 5: LES / hybrid RANS-LES
  - 7: RANS 1 eqn. (k-l, Spalart-Allmaras)
  - 25: RANS 2 eqn. (k-epsilon, k-omega)

# Program

## Thursday December 3

- 9:00 Registration / Coffee
- 9:30 Welcome
- 9:45 **The Askervein Experiment**  
*Peter A. Taylor, York University*
- 10:30 Coffee
- 10:40 **The Bolund Experiment**  
*J. Berg, J. Mann & H.E. Jørgensen, Risø DTU*
- 12:10 **Group Photo**
- 12:30 Lunch
- 13:30 **Blind Comparison Results**  
*Andreas Bechmann, Risø DTU*
- 14:45 Coffee
- 16:00 **Questions to Bolund Team**
- 17:00 Bus to Scandic Hotel & Dinner
- 19:00 **Conference Dinner**  
*Sponsored by Vestas Technology R&D*

## Friday December 4

- 9:00 Resume / Coffee
- 9:15 **LES Simulation of Terrain**  
*Vijayant Kumar, Macquarie Capital*  
*Marc Parlange & Chad Higgins, EPFL*
- 10:00 Coffee
- 10:10 **Wind Tunnel Modeling of Bolund**  
*Brad C. Cochran, CPP Wind*
- 10:50 **RANS Simulation of Bolund**  
*Niels Sørensen, Risø DTU*
- 11:30 **Poster Introduction**
- 12:00 Lunch + Poster / Coffee
- 14:00 **Panel Discussion: Flow modeling**  
*Peter Taylor, Brad Cochran, Vijayant Kumar*  
*Niels Sørensen, Jakob Mann*
- 15:45 Close