

Curriculum Vitae – Niels G. Mortensen

Personal Data

Niels Gylling Mortensen (Mr.)
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Birth: 15 January 1954
 Nationality: Danish

Education

Cand.scient. (M.Sc.) in Physical Geography, geology and geophysics; specializing in climatology and boundary layer meteorology. Institute of Geography, University of Copenhagen.
 Certified WAsP user #3, November 2001, Risø.

Language Skills

Danish (mother tongue), English (proficient), German and French (good understanding and reading, fair in speech, poor in writing).

Employment

- 1977-83 Instructor (part-time)
 Institute of Geography
 University of Copenhagen
- 1985-96 Research scientist, Meteorology Section
 Meteorology and Wind Energy Department
 Risø National Laboratory
- 1992 Scientist, Atmospheric Technology Division
 National Center for Atmospheric Research
 Boulder, Colorado, USA
- 1997-2006 Senior scientist, Wind Power Meteorology
 Wind Energy Department
 Risø National Laboratory
- 2007- Senior scientist, Meteorology Section
 Wind Energy Division (2012: Department)
 Technical University of Denmark

Professional Experience

More than 30 years of experience in wind power meteorology and climatology; including research and development, second opinion and due diligence studies on commercial terms, publication of wind atlases for the European Communities, Denmark, Egypt, Dongbei (NE China) and South Africa.

Over 25 years of experience in international wind power projects starting with "Demonstration and Development of Technology and Planning in the Wind Energy Sector in Egypt" (wind resource assessment programme with measurements and modelling, incl. the Wind Atlas for the Gulf of Suez 1991-95).

Wind resource assessments and second opinion studies carried out for sites in Denmark, Finland, UK, Poland, Portugal, Spain, Cape Verde, Morocco, Algeria, Egypt, South Africa, Indonesia, Greenland, USA, China and Australia. Experience in design, operation and maintenance of met. stations in Denmark, Greenland, Egypt, Cape Verde and South Africa.

Detailed knowledge of the design, establishment, operation and maintenance of wind-monitoring stations; wind measurements, wind resource assessment and siting, practical wind flow modelling, terrain description and mapping, WAsP models and software, WAsP Utility Programs, WAsP Engineering, WAsP/KAMM methodology, and WAsP Resource Mapping. Author, co-author or editor of more than 200 [papers, reports and books](#) in wind power meteorology, climatology and boundary layer meteorology.

Detailed knowledge of surveying, aerial photography, photogrammetry, geology, geomorphology, land-use analyses and thematic mapping. Significant experience in the use of WAsP and related software. Certified WAsP User #3 (2001). Member of the WAsP development team since 1985; WAsP being the industry-standard software tool world-wide for wind resource assessment and siting of wind farms.

Teaching Experience

Instructor at the Geographical Institute, University of Copenhagen (1977-81); teacher at 50+ WAsP courses and certification examinations at Risø and DTU (1991-present); teacher on courses 46200 and 46300 at the international Wind Energy Master at the Technical University of Denmark (2007- present).