Database on Wind Characteristics

NAVIGATION

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This database contains three different categories of wind data: time series of wind characteristics, time series of wind turbine responses and wind resource data. These time series are primarily intended for wind [turbine] design purposes and the resource data can be used for siting analysis. In the databse you will find wind speed measurements, measured under different conditions and terrain types at 37 different locations inside Europe, Japan and United States.

- How to get access to the database.
- User registration form.
- How to get data.
- Browse site and experiment documentation.
  (This page contains an overview of the countries represented in the database).
- Find wind data with direct access to search facilities.
- Projects based or partly based on the database contents.
- Copyrights for using data.

The database is compiled and maintained in Denmark by Kurt S. Hansen, Technical University of Denmark (DTU). The operation ...mark as an IEA R&D Wind Annex XVII (operating agent Risø National Laboratories).

More than 60.000 hours of wind speed measurements are available in the database right now and wind turbine structural measure... given in our folder and in the final project report.

Visitors are invited to browse through the wind statistics and view time series (login as guest user). Registrated users will obtain ac... s.

Late news: New, enlarged version of the wind database is released in dec 2000 which includes resource data, together with a ...

Updated 05-01-01

Further information please contact: ...

The compact Mercury Jukebox offers a gigantic storage potential of 100GB. The Mercury acclaimed "Product of the Year" as well as the "Editors Choice" of Imaging Magazine excels in performance in any network environment. The innovative lift mechanism along with the 4 drives will provide rapid access to all data. The Mercury Jukebox is fast, efficient and can be extended by daisy chaining. Above all, it is multi-compatible and very reliable, even under extreme working conditions. The optimized disc to drive ratio will ensure that the Mercury can perform to its full potential on networks and substantially minimize the occurrence of archive conflicts. The Mercury is a reliable investment for the future in order to maintain your data in relation to state-of-the-art standards.

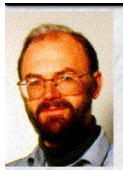
ADVANTAGES OF THE MERCURY JUKEBOX:

- Best Performance
- High Reliability
- Ability to be combined and extended
- Optimized price-performance ratio
- Easy installation
- Compact design

BASIC MODELS:

Mercury 22 (2 read-only drives, 2 recorder drives)
Mercury 40 (4 read-only drives)
Mercury 31 (3 read-only drives, 1 recorder drive)

Jukebox	Drives	System
Number of slots: 150	Number of drives: four	TDD: 7s
Data capacity: 100 GB (CD)	CD-ROM Type: Plextor Px 32	Data interface: SCSI-2 (differential
705 GB (DVD-ROM)	Data transfer rate: 2.1 - 4.8 MB/s	ended opt.),
390 GB (DVD-RAM)	Access time: 85 ms	Robotics control RS 232, SCSI-2
Magazines: 3, 50 discs each	CD-R Type: Plextor Px-R 412	interface: (differential ended
Media exchange < 4s average	Data transfer rate: 600 KB/s write,	opt.)
time:	1.2 - 1.8 MB/s read	Weight: 29.32kg, 71lb.
Media swap time: 2s average	Access time: 190 ms	Height: 524mm, 20.6 in.
Reliability	DVD-RAM Type: Toshiba SD-W 1101	Width: 272mm, 10.7 in.
Robotics MSBF: >2,500,00 cycles	Data transfer rate: 1 MB/s write	Depth: 601mm, 23.7 in.
Electronics MTBF: > 60,000 poh	2.7 MB/s read	Media handling: no touch tray
Drive MLBF: > 250,000 load	Access time: 120 ms	technology
cycles		
Mail-slot: yes		
LCD Operator NSM standard		
panel: , 16 key 32 character		
display		



Jørgen (p.t. on leave at NEG-Micon) Højstrup

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- Telephone : +45 8710 5262

Email : jho@neg-micon.dk

Education/Training :

Ph.D. (Micrometeorology), Risoe/The Technical University of Denmark M.Sc. Technical University of Denmark

Field of activity :

On leave from Risø at NEG Micon until 31st of May 2001. Field measurement Windfarms and single windturbines, wakes, loads and turbulence. - Wind resou inhomogeneous terrain - Air/sea interaction

[Risø] [AMV] [Back]

Wind Energy & Atmospheric Physics

- *Welcome - guest number:* Counter

Welcome by Head of Department
Presentation of the Department
Organization
Staff

Wind Energy

Atmospheric Physics

- *Meetings, seminars & events*
- *Research Programs:*

Atmospheric Transport & Exchange
Wind Power Meteorology
Aeroelastic Design
Wind Turbines
Electrical Design & Control

- *Services and Products:*

Wind turbine & blade testing
Wind turbine certification & type-approvals
Experimental meteorology
Consulting services
Wind atlases

- *Annual reports (not yet)*

- *What's new ?*

The MARS Pathfinder

Dense Gas Dispersion

EUROPEAN WIND ATLAS

WASP

On-Line Weather

Project News (not yet)

Contact address

RISØ

RISØ

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Editor of:

Wind energy activities in Denmark

Research activities, general.

The Fluid Mechanincs Department a
development of wind energy since 19

- Wind turbine aerodynamics
- Wind turbine structural dynam
- Analysis of measurements on

The department has been responsible
structural design of the blades for the
in the measurement program carried
analysis on the 2MW Tjæreborg turb

Welcome to

Fluid Mechanics Section (AFM)

Department of Energy Engineering
Technical University of Denmark

Building 404, DTU
DK-2800 Lyngby, Denmark

Phone: (+45) 4593 2711
Fax: (+45) 4588 2421
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Subject areas:

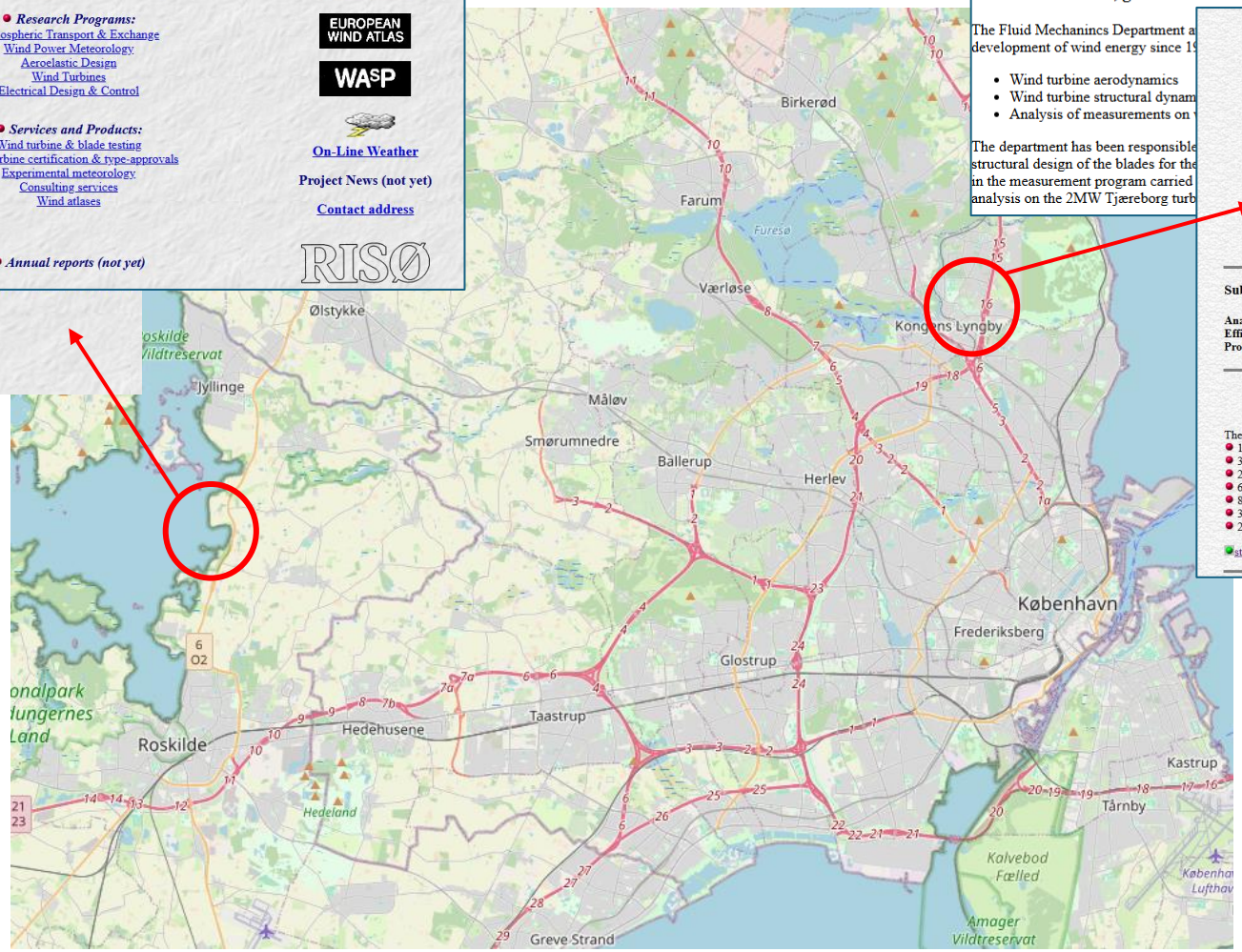
Analytical, Computational and Experimental Fluid Mechanics (including Heat and Mass Transfer, Efficient Algorithms and Turbulence Models, Micro-fluidics, Bio-Fluid Mechanics); Flows in Industrial Process Equipment; Wind Power and Flow Machinery.

Head of Fluid Mechanics Section:
Jens Nørkær Sørensen

The staff consists of:
- 1 professor
- 3 assoc. professors
- 2 ass. professors
- 6 ph.d. students
- 8 research associates
- 3 technicians
- 2 secretaries

students

DTU AFM



WORK PROGRAMME

to

EU DG XII

JOULE R&D Programme

DATABASE ON WIND CHARACTERISTICS

Contract number

JOR-CT95-0061

Risø National Laboratory

The Technical University of Denmark

University of Uppsala

ECN

CRES

VESTAS WIND SYSTEMS A/S

OBJECTIVES.

The objectives of this project are

- to build a database consisting of a large number of timeseries from many different sources. The initial body of data will be composed of data already available, while updating from ongoing and future measurement programs will be carried out on a regular basis to complement the database.

- to make available tools for efficiently searching through the data, to select the cases needed.

- to set up access to this database through Internet for online search and downloading of selected timeseries for use in the models for the design of windturbines (or other structures or buildings)

Database on Wind Characteristics

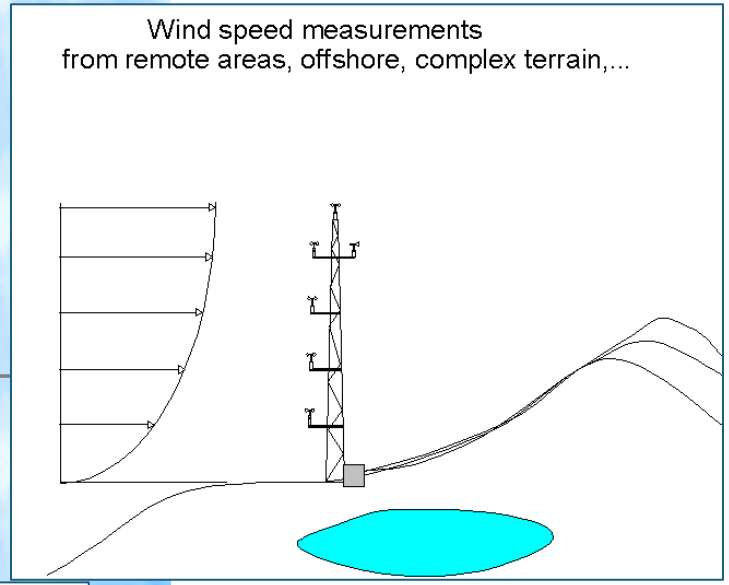
EU - Joule Project Number JOR3-CT95-0061

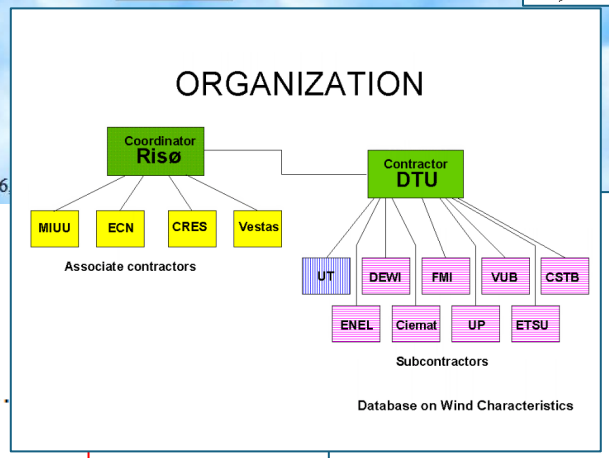
Coordination:
J. Højstrup, RISØ, Denmark
M. Courtney, RISØ, Denmark
Contractor:
Kurt S. Hansen , ET, DTU, Denmark
Ass. contractors:
G.Glinou, CRES, Greece
A-S Smedman, Uppsala, Sweden
J. Dekker, ECN, The Netherlands
M. Friedrich, VESTAS, Denmark

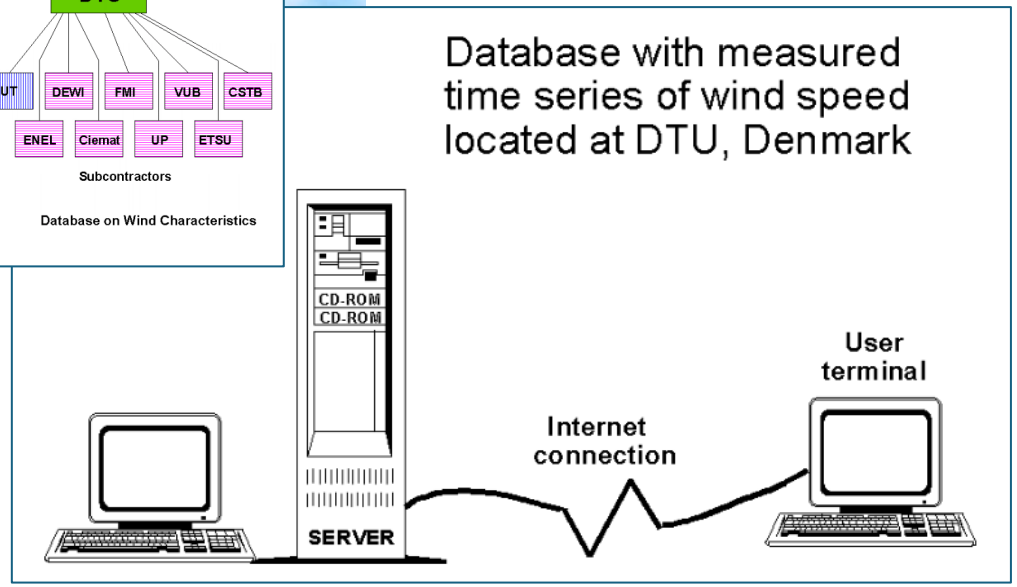
Project information

Project duration	30 months
Project start	1 Jan. 1996
Contact Persons	Kurt S. Hansen/DTU & Jørgen Højstrup/Risø

- Workprogramme, abstract
- Minutes from 1. meeting
- Minutes from 2. meeting
- Minutes from 3. meeting
- Paper No.180 presented at EUWEC 20-24 May 1996







Welcome to
WIND ENERGY INFORMATON

This document contains information about the installed capacity of danish wind turbines, danish prototype turbines national and international projects (EU and IEA activities).

This document uses HTML3 Netscape-enhanced graphics. In order to view backdrops, tables, text wrapping and other enhanced graphics, you need to install a HTML3-compatible web-browser such as Netscape.

Wind turbines and Windfarms

- Windfarms in DK (map & table)
- Nibe wind turbines
- Masnedø windfarm
- Tjæreborg 2MW Wind Turbine **Design and measurement programme**
- The Tjæreborg Wind Turbines **(brochure with pictures)**
- Elkraft 1MW Wind Turbine
- Manufacturers
- Installed capacity and energy production in Denmark
- Photo gallery

Research projects related to Department of Fluid Mechanics, DTU

- WEGA-II: Large Wind Turbine Scientific Evaluation Project (SMEP)
- Database on Wind Characteristics

Miscellaneous

- IEA Recommendations and events
- Wind Info Resources on the Net.

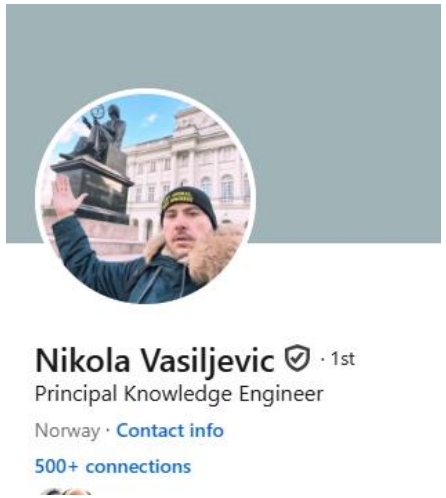
Kurt S. Hansen & Nikola Vasiljević, DTU Wind Energy

Rescuing legacy data from obsolescence:

The WindData.com user-case

4. november 2021 DTU Vindenergi

www.winddata.com revamp!



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