

Wind Energy Education at Universities in SA workshop

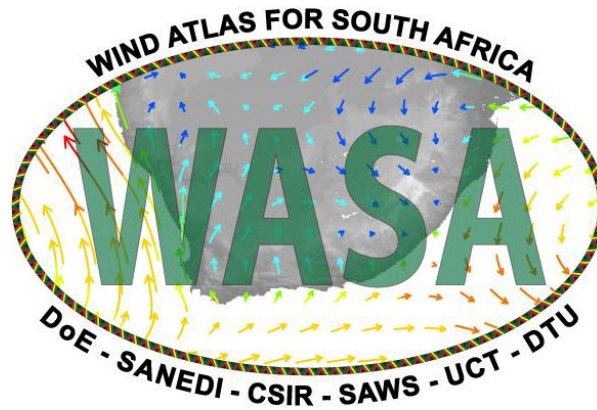
**A product of the Wind Atlas for South Africa (WASA) project
in collaboration with the South African Renewable Energy
Technology Centre (SARETEC)**

2 - 3 November 2016

Room: 2.64 – 2.66,

Cape Town International Convention Centre, CTICC.

Co-Located with Windaba 2016



The WASA project drivers and partners

The project is an initiative of the South African Government – Department of Energy – and co-funded by:

- UNDP-GEF through the South African Wind Energy Programme (SAWEP)
- Royal Danish Embassy

Project Steering Committee:

- DoE (chair), DEA, DST, UNDP, Danish Embassy, SANEDI

Executed by:

- The South African National Energy Development Institute (SANEDI)

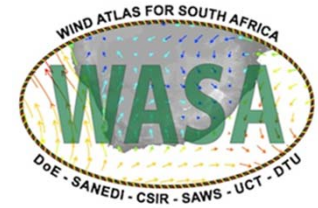
Implemented by:

- CSIR, UCT, SAWS, and DTU Wind Energy (formerly Risø DTU)



energy
Department:
Energy
REPUBLIC OF SOUTH AFRICA





Programme – Wednesday afternoon

Wednesday 2 Nov 2016, 14:00-15:30

Registration, tea/coffee

Opening address

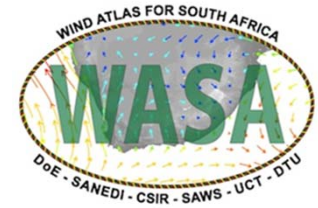
1. Wind Energy Training Overview

1. Wind Energy Training and Education at SARETEC
2. Wind Energy Education at DTU, Denmark
3. Wind Energy Education at UCT, South Africa
4. Wind Energy Education at Stellenbosch University, South Africa

Wednesday 2 Nov 2016, 16:00-17:30

2. WASA example in Wind Energy Education

1. What is a wind atlas and where does it fit into the wind energy sector?
2. How a state-of-the-art wind atlas is made: the example of the Wind Atlas for South Africa
3. How an extreme wind atlas is made



Programme – Thursday morning

Thursday 3 Nov 2016, 09:00-10:30

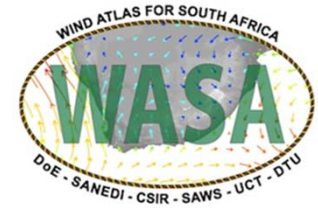
3. Teaching wind resources, wind energy planning and projects

1. Presentation of “A training course in applying the products of the WASA project”
 - Principles of wind resource analysis
 - Measurements and modelling on several scales
 - Wind Farm Planning and Development
2. Experiences, best practice, pitfalls, challenges

Thursday 3 Nov 2016, 10:30-11:00

4. Data and materials for teaching

1. The WASA project: how to access the data
2. Public domain resources
3. DTU Wind Energy resources



Programme – Thursday (continued)

Thursday 3 Nov 2016, 11:30-13:30

5. WASA in university teaching – case studies

1. How UCT is using the WASA for teaching
2. Examples of using WASA in education: Students' case studies
3. Examples of using WASA in education: Master thesis
4. Other case studies from South Africa

6. Role of university education in the renewable energy future

1. Position report on educational possibilities for wind energy in South Africa
2. Feedback and discussion
3. The way forward

Closing address

Thursday 3 Nov 2016, 16:00-17:30

6. Role of university education for wind power ... cont'd