

# SA Ocean Energy Workshop

## MINUTES

11-OCT-2012

10:00 AM

CAPE TOWN

<b>MEETING CALLED BY</b>	Dr. Thembakazi Mali (SANEDI/RECORD) and Ms Kubeshnie Bughwandin (Eskom)
<b>TYPE OF MEETING</b>	Ocean Energy Workshop
<b>FACILITATOR</b>	Dr. Thembakazi Mali; Prof. Wikus van Niekerk
<b>NOTE TAKER</b>	Josh Reinecke; Prof. Wikus van Niekerk
<b>TIMEKEEPER</b>	
<b>ATTENDEES</b>	SAOEN community

### Summary:

Ocean energy in South Africa is gaining interest around various sectors and the need to revive the South African Ocean Energy Network (SAOEN) was expressed by RECORD and Eskom. A meeting was held to initiate and facilitate contact between RECORD, Eskom, researchers and the private sector.

Dr. Mali presented the vision of RECORD and what the function and role of it is in the South African context as well as SA's participation in the OES (Ocean Energy Systems) Implementing Agreement of the IEA. Ms Bhugwandin presented Eskom's interest and priorities in ocean energy. Prof van Niekerk initially presented on ocean energy and the current research conducted at Stellenbosch University. Mr. Padhriac O'Connor from the CSIR presented on the facilities at the Stellenbosch CSIR offices (3D wave basin) and their wave data gathered from wave rider buoys.

A discussion followed the presentations structured towards how to formalise the SAOEN. This entailed discussing the way forward for SAOEN; what the purpose of SAOEN will be and what role it will play in the South African context. Decisions were made regarding the formation of a steering committee that will initially drive the SAOEN and the later evolution into an association. It was indicated that the goal should be to form an association to have a larger lobbying voice. The meeting was concluded by appointing a Steering Committee tasked with the next steps forward including:

1. Review of previous SAOEN documents
2. Obtain comments from the SAOEN community and others
3. Revitalise the SAOEN website
4. Finding funding for the appointment of an association champion
5. Drafting a constitution for the SAOEN
6. Coordinate a founding AGM of the SAOEN

### Agenda topics

30 MINUTES

SESSION 1

DR. MALI

<b>DISCUSSION</b>	<ol style="list-style-type: none"><li>1. Dr. Thembakazi Mali presented on SANEDI/RECORD's interest in ocean energy</li><li>2. Ms. Kubeshnie Bhugwandin outlined Eskom's interest in ocean energy</li></ol>
<b>CONCLUSIONS</b>	<ol style="list-style-type: none"><li>1. SANEDI and Eskom represent South Africa on the OES Implementing Agreement as member and alternative, respectively and are therefore tasked with</li></ol>

	developing ocean energy in SA. 2. Eskom outlined the existing Agulhas current data available and indicated that it will be made publically available.
<b>ACTION ITEMS</b>	
<b>PERSON RESPONSIBLE</b>	<b>DEADLINE</b>
Ms. Bhugwandin to make Agulhas current data available	Ms. Bhugwandin
Dr. Mali to approve that the website be updated	Dr. Mali
	Done

60 MINUTES

SESSION 2

MS. BHUGWANDIN

<b>DISCUSSION</b>	1. Prof. Wikus van Niekerk presented on the portfolio of research projects conducted at the University of Stellenbosch in ocean energy. 2. Mr. Padhraic O'Connor presented on the portfolio of research projects conducted at the CSIR (Stellenbosch) in ocean energy.
<b>CONCLUSIONS</b>	1. Prof. van Niekerk showed a number of research projects in wave and ocean current energy. Primarily technology development focused. Showed the facilities of Stellenbosch University (two wave flumes and a towing tank). 2. Mr. O'Connor indicated some of the work for developers of wave energy devices that they have conducted in their 3D wave basin and wave flumes. He also indicated the Wave Rider buoy data (9 stations) they have on the wave climate of the Southern African coast.
<b>ACTION ITEMS</b>	
<b>PERSON RESPONSIBLE</b>	<b>DEADLINE</b>
None	

120 MINUTES

SESSION 3

DR. MALI

<b>DISCUSSION</b>	<b>Dr. Mali initiates discussion on how to take the SAOEN forward</b>
	<ul style="list-style-type: none"> <li>• Establish a forum/association to improve the visibility and coordination of ocean energy in SA</li> <li>• All present agrees on the need for the existence of SAOEN</li> </ul>
<b>CONCLUSIONS</b>	
<b>DISCUSSION</b>	<b>How should SAOEN be structured?</b>
	<ul style="list-style-type: none"> <li>• Prof van Niekerk explains some of the challenges:             <ul style="list-style-type: none"> <li>○ Funding research and development work is a problem</li> <li>○ Small community and lack of financial support</li> <li>○ No lack of ocean energy device ideas</li> </ul> </li> <li>• Dr. Mike Roberts suggest having a central node/repository for collaboration for             <ul style="list-style-type: none"> <li>○ Research</li> <li>○ Collaboration</li> </ul> </li> </ul>

- Data repository
- Establish a centre of excellence
- Dr. Mali asks what to do as a group to keep momentum?
  - Mr. Jansen suggests making data available to attract interest and collaboration
  - Dr. Mali suggest having articles published to raise awareness and highlight the potential of ocean energy which will assist with inclusion in the energy mix and ultimately the IRP
- Prof. van Niekerk agrees that data should be made available together at a single repository with technical support to assist developers and inventors to interpret the data correctly.
  - Question raised about how to setup repository
  - Dr. Mali indicates that the data repository could be outsourced.
- Kitchen cupboard manufacturing and installation industry model was suggested
  - Start a office with membership fees that can make advice available
  - Universities used to adjudicate designs
  - Use of marketers/lobbyist to advance the case
  - From their experience this helps facilitate a industry
- Following that the question asked if RECORD is that entity.
  - Dr. Mali says yes (sort off)
  - Dr. Mali suggests the website as entrance point to SAOEN
- Dr. Roberts suggest a chapter for Ocean Energy within RECORD that RECORD then champions.
  - Dr. Roberts states it is the best way to influence IRP inclusion due to its quasi-government status.
  - Dr. Mali suggests to have the SAOEN chapter responsibility separate from RECORD.
- Prof. van Niekerk suggests what the SAOEN offer / what needs to be done.
  - Identify policy shortcomings
  - Connection for developers to a consultant
  - Identify sources of funding
  - Facilitate data collection
  - To be used as lobbying voice
    - Lobbying government to initiate IRP ocean goal
    - Convince government for buy in
  - Members need to complete a form with their information to be used in the database

<b>CONCLUSIONS</b>	

<b>DISCUSSION</b>	<b>Dr. Mali asks what should the SAOEN objectives be</b>
-------------------	--

1. Be a resource of validated data
2. Lobbying entity for the sector
3. Provide access for members to IEA- Ocean Energy for information
4. Share information including
  - Resource data
  - International companies
  - Legal frameworks
  - Financing
5. Be the voice of the ocean energy community.
6. Promote ocean energy as a resource through
  - Legal framework

	<ul style="list-style-type: none"> <li>o Funding opportunity</li> <li>o Technical support</li> </ul>
<b>CONCLUSIONS</b>	
<b>DISCUSSION</b>	<b>Working towards DoE requirements to see ocean energy included</b>
	<ul style="list-style-type: none"> <li>• Data from a commercial device required, not model or prototype testing</li> </ul>
<b>CONCLUSIONS</b>	
<b>DISCUSSION</b>	<b>Ms. Bhugwandin asks how will the SAOEN be managed?</b>
	<ul style="list-style-type: none"> <li>• Ms. Bhugwandin suggests appointment of a president/chair.</li> <li>• Prof. van Niekerk says that it will require funds for the appointment of a full-time staff member to administer and promote the SAOEN</li> <li>• Possibly use SAOEN (as an association) as a fund finder for initial soft money</li> <li>• Possibly look at asking GIZ due to Dr. Mali's connection</li> </ul>
<b>CONCLUSIONS</b>	Prof van Niekerk and Alstom pledged R50k respectively, towards a full-time staff member
<b>DISCUSSION</b>	<b>Next steps to agree</b>
	<ul style="list-style-type: none"> <li>• Formalize association and make appointment of the 'president'.</li> <li>• Find funding (Andritz, Voith, Alstom, Siemens, DTI, GIZ, Eskom)</li> <li>• The initial purpose of the appointee is to develop opportunities for further funding</li> <li>• Members and/or steering committee should decide on a appropriate person to appoint</li> </ul>
<b>CONCLUSIONS</b>	
<b>DISCUSSION</b>	<b>Motion of making SAOEN an association presented by Prof. van Niekerk</b>
	Should SAOEN be made an association?
<b>CONCLUSIONS</b>	Voting by members indicated an overwhelming majority in favour to form an association.
<b>DISCUSSION</b>	<b>Steering committee should be created</b>
	<ul style="list-style-type: none"> <li>• Prof. van Niekerk suggests that an initial steering committee be created and tasked to define a constitution.</li> <li>• Prof. van Niekerk suggests that a steering committee be formed.</li> <li>• Commitment from members present to assist on all related correspondence as indicated by the committee should help aid the day-to-day tasks of the committee.</li> <li>• Possible using SAPVIA, Renewables UK, EU Ocean Energy Research models for SAOEN.</li> <li>• Members asked to volunteer for the committee. In total 8 people volunteered listed below: <ul style="list-style-type: none"> <li>o Dr. Mike Roberts</li> <li>o Ms. Porcia Nemathithi (Alstom)</li> </ul> </li> </ul>

Comment [TM1]: I thought it was credible resource data

- Ms. Kubeshnie Bhugwandien (Eskom)
  - Mr. Robbie Maartens
  - Mr. Jan Jooste (Vaal University of Technology)
  - SANEDI (Dr Mali/Karen Surridge-Talbot)
  - CRSES (Prof Van Niekerk/Josh Reinecke)
- Mr. Padhriac O'Connor (CSIR)
- Dr. Mali is selected as the convener of the Steering Committee.

<b>CONCLUSIONS</b>	Mr. Ander Jansen to provide model of EU Ocean Energy Research Centre Ms.Nemathithi to look at documentation for the formation of the association.
--------------------	--

<b>DISCUSSION</b>	Next step forward
-------------------	-------------------

1. Review of previous SAOEN documents
2. Obtain comments from the SAOEN community and others
3. Revitalise the SAOEN website
4. Finding funding for the appointment of an association champion
5. Drafting a constitution for the SAOEN
6. Coordinate a founding AGM of the SAOEN

### Meeting Adjourned

ACTION ITEMS	PERSON RESPONSIBLE	DEADLINE
Data repository outsourced/created	Dr. Mali	
Website update	Dr. Mali	Done
Previous documents on SAOEN to be sent to Dr. Mali and. Ms. Bhugwandien	Porf. van Niekerk	Done
Mr. Jansen to send EU Ocean Energy Research Centre model	Mr. Jansen	
Review of SAOEN documents	Dr. Mali and Ms. Bhugwandien	