



2017 SANEA ENERGY AWARD



Dr Wolsey Barnard, CEO of the NRWDI and Brian Statham, Chairman of SANEA

Dr Wolsey Barnard, Chief Executive Officer of the National Radioactive Waste Disposal Institute (NRWDI) in recognition of his selfless commitment to public service and the passionate desire to improve energy services for all South Africans. His return to public service after 10 years as a successful consultant is a measure of his commitment. Furthermore, during his time as Deputy Director-General and Acting Director-General at the Department of Energy, he earned the respect of a great many people for his objective approach, his willingness to listen to the needs of people working in the sector and his sincere efforts to advance the sector.

Dr Barnard has extensive experience in the South African Energy Sector. He is inherently a humble man and is truly one of those who is working tirelessly behind the scenes to achieve a better life for all South Africans.

Dr Barnard is indeed an unsung hero of the South African energy sector and he fully deserves to receive SANEA's premier award, the SANEA Energy Award.

2017 SANEA ENERGY PROJECT AWARD



Riaan Meyer, AngloGold Ashanti Mponeng Mine and Dr Riaan Rankin, M-Tech Industrial (Pty) Ltd with Brian Statham, Chairman of SANEA

M-Tech Industrial and AngloGold Ashanti have jointly been involved in several first of a kind energy efficiency projects in South Africa. The first major roll-out of heat pumps at industrial change house hot water systems was executed at AngloGold Ashanti by M-Tech Industrial in 2007. In 2013, this project was the first integrated energy use investigation that considered the interactions between all major utilities.

The unique use of the energy from the compressor heat recovery system is what the adjudication panel felt made this project worthy of the award together with the appreciation that the environment for implementing this type of project is not easy.

2017 SANEA ENERGY PROJECT AWARD



Shaun Govendar from Toyota TSUSHO Africa and Shaun Worthmann from Real Time Energy (Pty) Ltd

Real Time Energy and Toyota Tsusho Africa are jointly nominated for the project which involved the innovative implementation of Solar Thermal heat into the standard refrigeration cycle at the Toyota Tsusho Africa Plant in Durban. This internationally patented technology was presented to Toyota Tsusho Africa as part

of a detailed energy audit and long-term energy management strategy by Real Time Energy. With no case history in South Africa, many would see this investment as risky, however, Toyota Tsusho Africa, appointed Real Time Energy and Solar Cool Africa to install, commission, measure and verify this exciting project, after having performed a thorough due diligence.

A further motivating factor is the environmental impact of the reduction of Greenhouse Gases. This project supports Toyota Tsusho's commitment to sustainable manufacture and reduced environmental impact. The project is on track for a payback of less than 3 years. The solution can be retrofitted onto existing plants or provided as full turnkey solutions, for HVAC, Cold Storage and Refrigeration.

2017 SANEA ENERGY EDUCATION AWARD



Brian Statham, Chairman of SANEA with Therese Lambrechts, Manager of the School's Programme at the Centre for Renewable and Sustainable Energy Studies (CRSES), Stellenbosch University

Therese Lambrechts, Manager of the School's Programme at the Centre for Renewable and Sustainable Energy Studies (CRSES), Stellenbosch University is nominated in recognition of her Teacher Professional Development workshops with teachers on renewable energy and the relationships she has built with different entities countrywide. Besides doing the training, she is also responsible for the development, management and implementation of project proposals in conjunction with outside funders.

Therese has managed the schools' programme for almost ten years. During this time, she has developed and updated the course material to keep abreast of the development of new technologies and applications as well as incorporating the feedback she received from the teachers who have used the material. She presented a conference paper at each of the 2014 and 2016 EEASA conferences on the schools' programme and completed a Masters' degree on 'How do teachers use the renewable energy learning material' at Rhodes University in 2017.

A Highly Commended certificate in the Energy Education Category was awarded In Absentia to Prof Nico Beute, Head: Energy Institute, Cape Peninsula University of Technology (CPUT)

Prof Nico Beute, Head: Energy Institute, Cape Peninsula University of Technology (CPUT) I nominated for his dedication to enhancing the sharing of energy knowledge through the conferences he has organised over several decades.

Prof Beute has convened 2 international energy conferences annually. They are the Domestic Use of Energy conference (DUE) and the Industrial and Commercial Use of Energy conference (ICUE). He has convened the DUE conference for 25 years and the ICUE conference for 14 years. What distinguishes these conferences from other energy conferences is the focus on the “use” of energy by professionals, practitioners, academics and end-users in all fields of domestic, industrial and commercial energy and has enabled the exchange of the latest developments and various options for the effective use of energy in the residential, industrial and commercial sectors.

2017 SANEA ENERGY YOUTH LEADERSHIP AWARD



Jack-Vincent Radmore, Analyst at GreenCape and Pule Segale, Site Manager: Mainstream Renewable Power with Brian Statham, Chairman of SANEA

Jack-Vincent Radmore, Analyst at GreenCape I nominated for his previous endeavours and current achievements which demonstrate his thought leadership of using a holistic approach to solve complex problems arising from the intersection of the fields of energy, finance and community development. This is observed in his start-up ventures at university, the content of his previous research and most importantly, the work he has been successful in implementing.

These projects include the policy and regulation work for municipal tariffs for distributed energy, his work with the World Bank in engaging with green SME's in frontier markets, and his moon-shot projects, such as the Alternative Service Delivery initiative which hopes to break the back of the energy poverty problem in South Africa, while using the learnings and any successes as a blueprint for the rest of Africa.

Pule Segale, Site Manager: Mainstream Renewable Power is nominated for his leadership in the implementation of Renewable Energy projects. Pule is a Civil Engineer with a broader focus in the Energy Sector. In South Africa, he has overseen 2 Wind Energy Projects with a combined capacity of 220MW. One of the projects was the winner of the Fulton Concrete Award for Innovation in Concrete. He directly contributed to the manufacturing and quality of the concrete towers used. Currently he is working on a strategic 225MW Wind Energy project in Ghana, the first in West Africa.

In addition to managing the project implementation, Pule has also been involved with the communities in which he works, having organized a schools' awareness program to inform learners of Renewable Energy and its benefits. He is a Brightest Young Minds Alumni, an organization creating positive social impact in South Africa by mobilizing youth leaders. He has recently been recognized as a Future Energy Leader by the World Energy Council and was chosen to take part in their 2017 FEL-100 programme.

2017 RECORD RERE SPECIAL CONTRIBUTION AWARD (ad hoc)



Stephen Forder, Editor, Writer and Researcher: The Energy Blog with Khothatso Mpheqeke, Project Officer Clean Energy at SANEDI and Dr Karen Surridge-Talbot, Centre Manager Renewable Energy Centre of Research & Development Clean Energy at SANEDI

Stephen Forder, Editor, Writer and Researcher: The Energy Blog is nominated in recognition of his website, The Energy Blog which is devoted to RE developments in Southern Africa with a database and mapping facility of all IPP projects and sector news. This go-to website is available free of charge for anyone interested in the renewable energy sector in South Africa and Africa.

The site has two focus areas, namely: The implementation of project statistics, and secondly, the provision of a space that allows civil society bodies to engage with the debates in the renewables sector. The site covers sector news and developments and has a comprehensive database of all IPP projects. It is also an aggregator of third party news on Africa renewable energy developments which is broadcast via The Energy Blog's Twitter feed. Critical to note, and pointing to Stephen's dedication, is the fact that the he Energy Blog, was developed and is still maintained in his free time and without any sponsorship or funding whatsoever.

2017 RECORD RERE YOUNG RESEARCHER AWARD

Ndamulelo Mararakanye, Research Engineer at Stellenbosch University is nominated for his solid academic achievements against all odds as well as his high-quality research output in his capacity as Research Engineer at the Stellenbosch University's Centre for Renewable and Sustainable Energy Studies (CRSES). He will be awarded a Masters degree in Electrical Engineering with distinction from the University of Cape Town at the July 2017 graduation ceremony. His thesis title is: *DC-link Based Control System for a Stand-Alone Variable Speed Wind Energy Conversion System with Storage*. Ndamulelo has published two peer reviewed papers.

Ndamulelo joined the team at Stellenbosch University Centre for Renewable Energy Studies as a research engineer at the end of 2016 and has since become an invaluable member of the research team. His research areas focus on renewable energy integration on to the grid on a national, regional and distribution level.



Ndamulelo Mararakanye, Research Engineer at the Stellenbosch University with Dr Karen Surridge-Talbot, Centre Manager Renewable Energy Centre of Research & Development Clean Energy at SANEDI and Khothatso Mpheqeke, Project Officer Clean Energy at SANEDI

A Highly Commended certificate in the RECORD RERE Young Researcher Category was awarded In Absentia to Dr Willem Landman, Research Engineer: Solar Thermal Energy Research Group, CRSES Stellenbosch University

Dr Willem Landman, Research Engineer: Solar Thermal Energy Research Group, CRSES Stellenbosch University is nominated for his research which has made several important contributions in the field of heliostat design and optimisation for which he received his PhD. Dr Landman is an active and respected participant in the Concentrating Solar Power (CSP) research community. His contributions have not only been academic, but his dynamic approach has enabled him to remain topical, being involved in solar heat integration in process heating, solar collector technology development and commercialisation as well as energy systems analysis.

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