



PROF DIETER HOLM & HENNING HOLM, OMNIBUS ENGINEERING

The life passion of both Prof Dieter Holm and Henning Holm as educators was demonstrated in the success of this training program on the thermal use of solar energy. With each announcement of a new session, it was fully booked within days. The training helped to inspire decision makers, architects and engineers as to the potential of solar water heating and demonstrated to over 700 hundred people the advantages and risks of solar thermal systems. The programme gave many the confidence to specify and implement such projects. The implementation of social solar water heating

systems demonstrated the success of simple programs and added over 1 000sqm of collectors to SA, saving over 700MWh/annum of electricity, while the measurement and improvement part of the project has saved more than 320 MWh/annum.

SANEA ENERGY JOURNALISM AWARD 2011



SISEKO NJOBENI, ENERGY EDITOR: BUSINESS DAY

Siseko Njobeni was noted for his expert absorption of complex subject matter and his balanced, impartial treatment of issues in a diverse industry driven by multiple variables and conflicting interests. Siseko's well-rounded education (economics and public finance, marketing management, journalism and media studies) and his distinguished work history across a range of industries (including government, the media and the diplomatic corps) facilitates his nuanced grasp of the myriad issues at play in the industry. From government policy to geopolitical factors, through to the environmental lobby, shareholder aspirations and staff issues – he has satisfactorily dealt with all of these, both undauntedly and fairly. We commend Siseko above all for his analytical ability and approach, his honesty and his commitment to the greater goal of growing the industry in an equitable, inclusive fashion.



ANTONIO RUFFINI, EDITOR: ESI-AFRICA

Having become familiar with the workings of Africa's largest electricity utility, Eskom, where he was employed as an engineer, he later pursued a career in technology and science journalism, which has included a significant focus on the energy sector at specific times. This encompassed the conceptualisation and start up of an energy sector publication (African Energy Journal) in 1999, which was focused on the energy sector in Africa, and which he edited for a year. His profound interest in the energy sector also came to the fore during another start-up in which he was involved in 2007 (WattNow) which he also edited for a year and which included a number of topics relevant to the energy sector. More recently, it involves his current editorship of a long standing electricity sector publication (ESI-Africa).



MIKE RYCROFT, EDITOR: ENERGIZE

A retired professional electrical engineer, Mike Rycroft joined EE publishers in 2008 as the Editor of Energize journal, a highly respected technical journal that focuses on the "heavy current" sector of the electrical spectrum. Before joining EE, Mike contributed several articles on energy to the company for publication, and authored a number of technical papers on the subject. Some of these were presented at international conferences. Mike was inspired to take up journalism after taking early retirement in 2004. The inspiration came from the comments of the editor of a national newspaper who was the guest speaker at an EE customer event. He said that there was a huge gap in the media for people who understood technology and could write, as "People who understand technology can't write, and people who can write don't understand technology."

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Brian A Statham

Chairman of the South African National Energy Association

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SANEA ENERGY AWARD 2011



DR DUNCAN CLARKE, GLOBAL PACIFIC & PARTNERS

With 30 years in global energy, and founder of *Global Pacific & Partners*, a leading private advisory practice in worldwide petroleum, Duncan Clarke has been advisor to numerous companies and governments on six continents. Author of foundation research on world oil from the early 1980s, covering strategy, competitors, national oil companies and exploration in Africa, Asia, Latin America, and MidEast, he conducts annual strategy briefings on private/state oil companies worldwide, notably the landmark *Scramble for Africa* held in South Africa. The firm, based in Johannesburg, is the preeminent organiser of management events in African oil and gas. His work has shaped ideas, strategy and deal-flow within Africa's petroleum business over many years, and he is a worthy nominee for the prestigious *SANEA Energy Award* recognising his role and contribution to Africa's oil-gas and energy industry.



PROF W H (EMILE) VAN ZYL, UNIVERSITY OF STELLENBOSCH

Prof van Zyl is well recognised in the field of microbiology and biochemistry of plant degrading enzymes and has established collaboration with researchers in Europe and the USA, particularly in the field of biomass conversion to bioethanol and has several joint international patents in these fields. He gained international recognition as research leader in the development of recombinant yeast for biofuel production from total plant biomass. In 2007 Prof van Zyl was awarded the prestigious Senior Chair of Energy Research (CoER) in Biofuels and other clean alternative fuels by the South African National Energy Research Institute (SANERI) and is currently heading up a Biofuels Research Team. In this capacity he is steering a large research programme towards the development of advanced second generation technologies (both biochemical and thermochemical processes) for the conversion of total plant biomass to biofuels.

SANEA ENERGY PROJECT AWARD 2011



ATLAS FOR GEOLOGICAL STORAGE OF CARBON DIOXIDE IN SOUTH AFRICA, DR TONY SURRIDGE

The Atlas for Geological Storage of Carbon Dioxide in South Africa was launched by the Minister of Energy on 10 September 2010. This was the culmination of two years of work initiated by SANERI and undertaken by the Council for Geosciences with the assistance of the Petroleum Agency of South Africa and financially supported by PetroSA, Anglocoal, Eskom, Sasol and SANERI. The Atlas has indicated sufficient storage potential to sequester carbon dioxide in geological formations rather than releasing it into the atmosphere and thus contribute to global climate change. This public/private partnership produced the baseline document for all future CCS activities in South Africa. Already the Atlas has led to two projects that will investigate a suitable location to undertake a Test Injection, the next milestone for CCS in South Africa.



DR ANTHONY KEEN, INDIVIDUAL

A Cape Town family reduced their electricity consumption 71% by installing a solar water heating system and other simple measures including an innovative swimming-pool energy-reduction system. They went on to install a rooftop photo-voltaic generating system, with full energy management and recording features. They explored how best to utilize solar, battery and grid power for the house. Taking the house essentially off the grid helped the grid, but the family had to learn to live by the sun for their electrical loads. The project has aroused much interest and has spread knowledge about energy saving, solar water heating and solar power generation, which was the purpose of keeping careful records. Cape Town authorities are now using the system to study the impact of feeding surplus electricity into the local distribution grid.



EXXARO RESOURCES, JOE MEYER

Exxaro's housing development project at Lephalale, Limpopo Province is an innovative energy efficient housing development project model. The first completed houses were handed over to the occupants in 2010. Exxaro's commitment to energy efficiency in its operations has carried through to its socio-economic development initiatives and is making a significant contribution to South Africa and its energy environment. The housing project demonstrates multiple energy efficiency building methods that can be applied at any development project and has had an enormous impact in the area both in terms of the housing development itself, and in terms of infrastructure and skills development. Exxaro has played a leadership role in the community in demonstrating how such energy efficiency initiatives can save money for people and continues to influence on-going social responsibility initiatives with regard to energy efficiency.



SASOL SYNFUELS, MARINUS NIEMAND

Sasol Synfuels (Pty) Ltd operates a synthetic fuels and petrochemicals plant at Secunda. Current electricity demand at the plant is some 1,300 MW of which approximately 800 MW has been imported from Eskom. The Sasol Synfuels has two 100 MW gas turbine generators [GTG], fired with natural gas. Their combined cycle gas turbine (CCTG) project will add two 145t/h heat recovery steam generators per GTG which will generate steam from the energy in the exhausts of the GTGs. On completion the combined cycle system will substitute about 268 MW of the electricity imported from Eskom. This project will therefore relieve some of the pressure on national electricity supply. The project will also make and environmental contribution through being more energy efficient than Eskom's coal-fired generation and being cleaner through its use of natural gas as the primary energy source.



STANDARD BANK OF SOUTH AFRICA, PRAVEEN MOODLEY

Kayema Energy Solutions designed, installed and commissioned a solar-heat pump hybrid system at Standard Bank's head office complex in Johannesburg. The system, commissioned in November 2010, is expected to reduce electricity demand by around 500 000kWh per year. According to James Shirley, General Manager of Kayema, Standard Bank took the initiative to fund the project themselves, as part of their drive to take a strong leadership role in SA and reduce the electricity demand of their buildings. The results of this project will have far reaching effects, both in terms of energy savings, and as proof to other organizations that the technologies work well and pay for themselves. Having set the example on a corporate level, the Bank have subsequently rolled out a scheme allowing special rates for staff members wishing to install solar water heaters at their own homes.

SANEA ENERGY EDUCATION AWARD 2011



ENERGY RESEARCH CENTRE, UNIVERSITY OF CAPE TOWN, ANDREW MARQUARD & BRUNO MERVEN

The Energy Research Centre of the University of Cape Town undertakes a wide range of work, much of it with a focus on delivering public benefits. Civil society at all levels has benefitted not just from commissioned outputs, but from the generous dedication of time and egalitarian sharing of knowledge and insights that continues to characterise the participation of many staff in public discourse and stakeholder processes, including strategic deployment of post-graduate students. The production and free dissemination of the SNAPP Tool, which enables relatively lay people to model options for electricity supply systems for South Africa, is an exemplar of academic innovation to build capacity for participatory development planning and governance in the energy services field, in this instance supported by the Living Planet Unit of WWF South Africa.