



SANEA

The South African National Energy Association
Energy People Working Together

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SANEA ENERGY AWARDS 2010

2010 Awards Winners

SANEA ENERGY AWARD CATEGORY

Award

Prof Philip Lloyd



Currently associated with the Energy Institute at the Cape Peninsula University of Technology (CPUT), Philip is a lifetime contributor to many aspects of energy in South Africa. His contribution has benefitted the lives of thousands of our citizens.

Much of his work in later years has been in the area of household energy, showing his concern for our poorer citizens. It was he, for instance, who first showed why the paraffin stoves in widespread use were so dangerous and caused such loss of life and property.

In his earlier professional career he revolutionized the uranium industry; took

responsibility for some of the development of the Richards Bay Coal Terminal; and helped build the Mossel Bay gas-to-liquids plant, among other accomplishments.

Taking an interest in the role of fossil fuels in possible climate change, he has been active in the field of carbon capture and storage, and has developed challenging views on humanity's future in a carbon-fuelled world.

SANEA ENERGY PROJECT CATEGORY
Award
Babcock International Group – Engineering Division

Represented by David Brook



Babcock was the principle contractor on the Mondi Merebank Multi Fuel Boiler (MFB) Contract. This contract pioneered a number of locally developed world class technological innovations with international application.

Mondi Business Paper is a large paper and pulp manufacturer with a range of waste product streams that are today regarded as environmentally unfriendly and consequently expensive to dispose of, a total of 170,258t per annum and a volumetric capacity of 315,000m³, the equivalent of a rugby field buried 30m deep!

Mondi recognised the potential existed to minimise the mass and volume of its waste streams by utilising these as a renewable energy feed stock and, in so doing, generate much needed steam and electrical power for the mill - provided they could source a cost effective technology capable

of combusting these waste materials.

The combustion of the seven waste fuels has resulted in a massive 81% reduction in the plant's mass to landfill and a 75% volumetric reduction for the total plant (including the additional ash from the auxiliary coal required to provide the additional energy for co-generation of power).

Additionally, gaseous and solid emissions have been substantially reduced for the steam and power generation plant which, combined with the implementation of de-SO_x on the old coal-fired boiler plant, has resulted in significant environmental benefits for the whole site and the Merebank Basin in general.

The total plant and the MFB in particular, is working very well, having now completed the guarantee period and Mondi indicating that a three year payback will have been achieved.

This is an exceptional performance for a South African conceived and designed project. It is also the only known plant that combusts such a mixture of wide ranging fuel characteristics.

SANEA ENERGY PROJECT CATEGORY

Highly Commended

ABSA

Sandile Mthiyane (*in absentia*)



The Absa Campus including the new Absa Towers West buildings comprises eight buildings with a total usable area of 130 000m². When Absa initiated the Towers West Project in 2006 they decided to review the way in that the whole Absa campus was powered.

Through their Energy Centre Absa has shown themselves to be leaders in the field of Energy saving and sustainability. The Energy Centre is the first of its kind in Southern Africa. Using gas generators with the gas supplied by Egoli Gas the Energy Centre is able to generate 11.2 MW of power. On weekdays from 07h00 to 20h00 Absa run the Energy Centre in cogeneration with City Power and by doing so reduce its greenhouse gas emissions by 18700 tons per annum, equivalent to replanting 1900 hectares of rain forest. By reducing their dependence on Eskom, particularly during peak hours, Absa is also doing its part to take some of the strain off the national electricity grid and help reduce unnecessary outages all while reducing their impact on the environment.

SANEA ENERGY PROJECT CATEGORY

Highly Commended

Woolworths

Justin Smith represented by Les Hall



Woolworths recognises that climate change is a major issue that affects the retail sector both directly through our operations and indirectly through our supply chains and the use of our products and services by customers. As such energy efficiency and reducing carbon emissions are key focus areas for Woolworths. This approach forms part of Woolworths Good business journey - our plan to reduce Woolworths impact on people and planet.

Woolworths has committed to a holistic energy strategy, focusing on lighting, refrigeration, air conditioning, store design and transport, all within the broader framework of climate change. We have set targets for reduction, which are measured twice per year and included in the balanced scorecards of employees.

We have reduced our relative energy usage to date by almost 20% off our 2004 benchmark, and have trialed a range of new technologies for the first time in South Africa. We are honoured to have been recognised by our peers as winners of the eta Energy efficiency accord signatories winner in 2008, being ranked first on the carbon disclosure leadership index in 2008 (low impact) and 2nd overall in 2009, and awarded the CLA retail climate leadership award in 2010.

SANEA ENERGY JOURNALISM CATEGORY

Award

Hillary Erasmus

Brooke Patrick Publications



Hillary is well known for her insistence on accurate and objective reporting of energy matters. She ensures that her work is well researched and that it presents a balanced view of the issues.

She is a firm believer that good decision making is supported by a good understanding of the issues at hand.

Hillary regularly attends SANEA meetings and is known for her pithy and insightful questions. She does not skirt the difficult issues but her questions are always fair and relevant to the material presented by the speaker.

Hillary delivered an important address at the SANEA "Action

for Energy" event in 2009. She appealed for the media and the energy industry to respect each other and to work together to ensure that better information flowed to those who needed it. She pointed out that it is the role of the media to question and interrogate but that they also have an obligation to report accurately.

Conversely, industry has an obligation to be honest about its successes and failures and to communicate the facts of the matter timeously and in a manner that can be understood by the public. Hillary's address at the opening of the SANEA event set the tone for the robust and positive dialogue of the following two days.

Those who have read Hillary's work will know that she strives to live up to her ideals. Recently Hillary received an award from Siemens for the best piece of Energy Journalism on the African Continent for 2009.

SANEA ENERGY JOURNALISM CATEGORY

Award

Simon Gear (in absentia)



Simon is well known as a senior broadcasting meteorologist with the SABC where he has provided weather production and presentation services to all of the SABC's domestic and international TV channels since 1999.

Simon has made energy efficiency quite visible in the SA media. He has had his "short tips" slot on radio, particularly during the electricity crises. He has recently had a series of television programmes on how to use energy efficiently in the home. The programme also illustrates how to convert areas of the home to new efficient technologies and how to monitor your energy usage. He has also gone to print with his first book, *Going Green* containing simple environmental advice for day to day living and is currently on its first re-print. He also runs an accompanying blog for green conversation and responses to his book.

He has made efficient use of energy fun, interesting, a topic for constant conversation and an area to experiment and challenge current behaviour.

SANEA ENERGY EDUCATION CATEGORY

Highly Commended

Adrian Vermaak



Mr Vermaak took a bold step in 2007 by transitioning from permanent to contract employment at the Electricity and Energy Directorate in the Nelson Mandela Bay Metro. Mr Vermaak began to communicate the importance of creating a skills development culture and applying the developmental principles necessary to sustain a full staff compliment, increased productivity, growth in technical expertise and motivated staff. The rewards of the above would boost the morale of staff, minimize staff turnover and provide the metro with a quality technical service. Ultimately the above approach would promote and contribute in making the electrical engineering industry attractive.

Mr Vermaak organised and leads a focus group that administers the effective roll out of the abovementioned skills development vehicles. He has provided motivation and has inspired involvement.

A great testimony has been the positive working environment that exists across different race groups and gender. Mr Vermaak has networked well with other institutions like the DME, ECSA, Eskom, National treasury, Walter Sisulu University and Nelson Mandela Metropolitan University in order to maintain a nucleus of trainees and to promote employment opportunities within the industry. It has also been rewarding to see trainees from Walter Sisulu University in Butterworth progressing and doing great work for the utility. No permanent staff has resigned over the past two years within the technical sections of the Projects Division where high staff turnover had previously been experienced.

Mr Adrian Vermaak was awarded the prestigious AMEU and CIGRE awards for the best paper and presentation from the AMEU Southern Africa at the recent national convention (September 2009). He was awarded the prestigious Port Elizabeth Rotary Club Meritorious Award for outstanding service within ones profession in April 2010.

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