

Melted metal being tapped from a BBC furnace (front view) at Transwerk, Bloemfontein – project by Palace Consulting Engineers.

NEWS FROM OUR MEMBERS: ELECTRO SENSE

Electro Sense is proud to have been named **Energy Company of the Year** by the Southern African Association of Energy Efficiency (SAEE). The Electro Sense Proactive Energy Management System is an occupancy sensor based system that controls lighting usage in commercial buildings and reduces electricity costs for lighting by an average of 67%. Independently verified results by Tshwane University documented a massive 85% savings at the Dimension Data Campus facility in Bryanston.

The Electro Sense Proactive Energy Management System is fully approved by Eskom DSM and is generally eligible for a 50% contribution to the installation cost by Eskom DSM. This results in a typical ROI for the customer of 18 months or less. In every project Electro Sense has done to date, the monthly savings on the electricity bill exceeds the monthly cost of installation of the system.

The Electro Sense website, www.electrosense.co.za, contains a wealth of information about energy efficiency in general and the Electro Sense Proactive Energy Management System in particular.

IST OTOKON

IST has landed three new industrial DSM load shifting projects for the reduction in the evening peak by 7,7 MW per average weekday. These projects are expected to be completed in October 2007 and entail the following:

- Goldfields Kloof for industrial hot water load control in the villages and change-houses at 1#, 7# and 10#. For this project, all of the boilers at the change-houses will be upgraded with intelligent in-line water heaters. Similar projects have been successfully completed at Angolgold Ashanti, Goldfields Driefontein and Lonmin Platinum mines.
- Anglogold Ashanti Vaal River for underground pump scheduling at 8# (Great Nologwa). This project entails the scheduling and control of underground water pumps in this deep-level mine to ensure maximum load shift during peak times while still maintaining a high level of worker safety.
- Simmer and Jack Buffelsfontein for underground pump scheduling at Margaret Shaft. Although this mine is closed and no mining activities currently take place, it is very important for the safety of neighbouring mines that the underground water flowing into this mine is extracted to the surface.

IST will use its ecWIN suite of load data acquisition and control software as the foundation for all of these projects and will



Compressors used to generate compressed air for the rest of the Transwerk plant – project by Palace Consulting Engineers.

design, supply, install, commission and maintain these turnkey projects.

Contact: James Calmeyer at 083 293 0725 or jamesc@ist.co.za

PALACE CONSULTING ENGINEERS

Palace Engineering Services (PES) is a 100% black owned multi-disciplinary engineering services company established in 1997.

One of the projects PES is currently performing is to investigate possible EEDSM initiatives at Transwerk, Bloemfontein. The site consists of a number of furnaces, conveyor systems, moulding machines, compressors, pumps, welding equipment, cutting equipment and lighting. By implementing automated control systems we will be able to shift 1,9 MW out of the evening peak periods as well as save 0,5 MW on the lighting by retrofitting the lights with ECG ballasts and energy saving lamps.

PES is currently involved in numerous projects involving hot water load control for municipalities, energy efficiency in street lighting, industrial and commercial buildings and processes, energy efficiency in lighting and process optimisation. Our balance of engineering skills and experience makes PES amongst the leaders of EEDSM in the country.

For more information contact Johan Pieters at 051 430 0271 or 082 410 9599.

THE ENERGY SHOP

The Energy Shop (Pty) Ltd was born from the ideal to render a time and cost saving service to advisors within the energy industry. Its aim is to provide customers with optimised solutions without being hampered by the day to day hindrance of procurement and installation.

Jens Stratenwerth, MD, has been involved in the energy industry for over 15 years with specific reference to metering and other specialised turnkey solutions.

As one of its primary projects The Energy Shop has embarked on an initiative to educate children and young people on the environmental value of saving as much energy as possible. Through the practical demonstration of how something as small as changing to CFLs can make a difference, The Energy Shop has grabbed the imagination of many young minds that will undoubtedly make a difference in years to come.

For more information contact Jens on 082 460 6695.

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