



Oryx Gold Mine



Mponeng Gold Mine

eta AWARDS

For those who do not know, *eta* is the commonly used Greek symbol for efficiency. The *eta* Awards is an annual event sponsored by Eskom. It has been held for the past 17 years and it is an integral part of Eskom's drive for energy efficiency. At the *eta* Awards banquet held on Friday, 26th May, 2006, several members of SAAEs were finalists and winners in the various categories.

The following SAAEs members were honoured at the function:

- Winner of the ESCO category: HVAC International
- Finalist in the ESCO category: IST Otokon
- Winner of the Agricultural Category: Transmission Grid Consulting
- Winner of the Commercial Category: Electrosense
- Joint Winner of the *Women in Energy* Category: Tlaleng Moabi

Our hearty congratulations to these winners. They illustrate the excellent qualities inherent in the members of our association. Here are details about two of these winning companies:

HVACI: BEST ENERGY SERVICES COMPANY

One main reason for HVAC International's 2006 *eta* award for best ESCO, was our track record of proven MWs and sustainable savings.

Mponeng mine (see above) is situated close to Carletonville in the Gauteng province. It is currently one of the leading gold production mines in South Africa. HVACI's Real-time Energy Management System (REMS) has been installed on the pumping system. An average of 12,3 MW is being shifted out of the evening peak period, resulting in a yearly saving of nearly R2 million.

Oryx (Beatrix 4#) gold mine's (see above) pumping system is fully automated and also controlled by HVACI's REMS system, which shifts 11 MW out of the evening peak period. The saving of R1,6 million per annum is just the start of various other savings projects.

HVACI would like to thank all our DSM partners for their commitment, time and effort for the successful completion of all our projects.

Marius Kleingeld, MD. (083 373 4549)

ELECTRO SENSE

Electro Sense is proud to have won the 2006 Eskom *eta* Efficiency Award in the Commercial category. 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%. Considering that lighting typically represents 30 to 40% or more of the cost of electricity for a commercial building, the bottom line savings potential for customers is massive.

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. This results in a typical ROI for the customer of 18 months or less. Depending upon the type and amount of lighting and the configuration of the space, some projects have an ROI of less than 12 months. 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.

AFRICON EXPANDS ITS ENERGY SECTOR INVOLVEMENT

Leading multi-disciplinary consultancy, Africon, has recently become a proud corporate member of SAAEs. Firmly rooted in South Africa, this black empowered firm has been providing infrastructure design and management solutions for more than half a century. With a staff complement of more than 1 100, Africon is capable of providing broad-based expertise throughout Africa and the Middle East. The firm is active in the commercial, education, health, housing and land, mining, transportation and water sectors.



Africon recently made the strategic decision to broaden its energy sector service offering to also include energy efficiency and Demand Side Management (DSM) solutions.

Africon's involvement is currently focussed on seven industrial sites within South Africa. A 6 MW load management DSM proposal for Eskom is in the final stages of approval, and a further three project proposals, with an estimated load shift potential of 10 MW, will be submitted to Eskom before the end of this year.

With wide-ranging energy and industrial experience combined with its multi-disciplinary capability, Africon is ideally positioned to become a leading role player in the energy efficiency and load shift market. Inspired to make a difference, Africon is committed to creating customised solutions to effectively meet the unique energy requirements of its clients.

Contact **Leo Middelberg**, (012) 427 2334, 083 677 2334 or leom@afriicon.co.za.

For more information on SAAEs contact Dieter Krueger, Secretary 084 408 6020 or kruegerd@mweb.co.za.

COMPANY NAME	ENERGY EFFICIENCY	DEMAND SIDE MANAGEMENT	INDUSTRY SECTOR			SPECIALISING IN
			COMMERCIAL	RESIDENTIAL	INDUSTRIAL	
AngloGold Ashanti , Marshalltown Arnold, Keith, 011-637-6477; karnold@anglogoldashanti.com	X	X	-	X	X	
Ballenden and Robb , Menlyn Liebenberg, Dale, 012-348-8555; bnrpta@iafrica.com	X	X	X	X	-	
Bluhm Burton Engineering , Rivonia Wilson, Ross, 011-706-9800; bbe@bbe.co.za	-	X	-	-	X	Underground mine refrigeration, ventilation, cooling, pumping
Danfoss , Rivonia Potts, Gordon, 011-803-8390; pottsg@danfoss.co.za	X	X	X	X	X	
E A Ludwig , Table View Ludwig, Edgar, 021-556-8804; eludwig@deunet.co.za	X	X	X	-	X	Integrated technical solutions Thermodynamics
Electro Sense , Banbury Cross Cram, Ken 011-708-3835; info@electrosense.co.za	X	X	X	-	X	Lighting controls using occupancy sensors Lighting retrofits and high efficiency lamps
Energy Efficiency Enterprises , Menlo Park Lane, Ian, 012-369-9886; eneficy@mweb.co.za	X	X	X	X	X	Energy training and capacity building for ESCOs Energy baseline modeling for business case development
Escotek , Waterkloof Ridge Van Jaarsveld, Alwyn, 012-347-7034; atpolaris@mweb.co.za	X	X	X	X	-	Municipal geysers control Commercial buildings
F & S Business Enterprises , Alexandra Nxumalo, Xolile, 011-443-1614; nxumalo@tiscali.co.za	X	X	X	-	X	
Fortune V Investments , Norwood Kutoane Kutoane, 011-483-3654; lupi@bosele.co.za	-	X	X	-	X	
GLPS , Middelburg FP, Greyling, 013-243-4390; admin@glps.co.za	-	X	-	-	X	Project management, feasibility studies, engineering design
HSC Technologies , Vorna Valley Sekabe, Alex, 011-803-4936; alex.sekabe@webmail.co.za	X	X	X	X	X	
HVAC International , Faerie Glen Kleingeld, Marius, 012-991-4417; mkleingeld@rems2.com	X	X	X	X	X	All aspects of load shift projects and energy efficiency
Igoda Projects , Westville T Madikane, 031-209-2235; tc@igoda.co.za	X	X	X	X	X	
Iskhus Power , Homestead Hager, Otto, 011-822-1112; info@iskhus.co.za	X	X	X	-	X	
IST OTOKON , Waterkloof Nell, Chris, 012-426-7515; chrisn@ist.co.za	X	X	X	X	X	Lighting Compressed air
Lebone Engineering , Kelvin Radebe, Kelvin, 011-802-6370; kelvinr@lebone.com	X	X	X	X	X	
Lemay Electrical , Bruma Lindsay, Lesley, 011-622-6170; info@lemaysecurity.co.za	-	X	X	-	-	
Lighting Innovations , Bergvlei Waddell, Bruce, 011-444-1168; bruce@lightinginnovations.co.za	X	-	X	-	-	
Ma'Emsa , Florida Hills Kriel, JFD, 011-674-2772; info@maemsa.co.za	X	X	X	-	X	
Motla Engineering , Klerksdorp Mocke, Johan, 018-462-3093; info@motla.co.za	X	X	X	X	X	
National Power , Meyerton Bekink, Dave, 016-362-4659; dave@natpower.co.za	X	X	X	-	X	Process energy optimisation; plants, pumping, process load shift, etc
Nationwide Electrical , Dormerton Chetty, Shamla, 031-206-2544; nepi@mweb.co.za	X	X	X	X	X	
Nova Lighting , Plumstead Edgar, Mike, 021-706-4451; mike@nova.co.za	X	X	X	-	-	Maintenance and management of lighting systems Energy management programs for indoor lighting systems
Nyathi Energy Service Cons. , Loane Park Matsiliza, Luntu, 011-233-7834; lm@wspgroup.co.za	X	X	X	-	X	
Palace Engineering Services , Langenhoven Park Pieters, Johan, 051-448-0271; johan.pieters@palaceconsulting.co.za	X	X	X	X	X	Electrical mechanical, control and instrumentation engineers
Palenque , Wierda Park Bluff, Esmé, 012-653-8693; info@palenque.co.za	X	X	X	-	X	Total energy solutions designed to align with the customer's energy business decision-making process
RPS Engineering Sibanda, Pearson, 043-722-1973; pearson@rpsengineering.co.za	-	X	-	X	-	
Siyadingana Consulting , Sandton Ellman, Michael, 011-802-5389; siyadingana@yahoo.co	X	X	X	X	X	
TFMC , Centurion Kritzinger, Gustav, 012-641-8094; kritzinger@tfmc.co.za	X	X	X	X	X	Public lighting energy efficiency upgrades. EE for tele- com + data. Facilities and infrastructure management
Thamela Technologies , Sandton Shangase, Sibusiso, 011-440-2621; sibusiso@thamela.co.za	X	X	X	X	X	
Transmission Grid Consulting , Kempton Park Venter, Frik, 011-396-4502/3; friktgo@iafrica.com	X	X	-	X	X	
Tsebo Resources Management , Edenvale Mathaha, Paul, 011-452-6233; tsebo@netactive.co.za	X	X	X	-	X	Ice storing systems for chiller load shifting Electrical system optimisation - Lighting HVAC, BMS
Tshepo Thato Consultants , Modderfontein Sydney Mabalayo, 011-606-2390; sydney@spmsa.co.za	X	X	X	X	-	Lighting HVAC
TSI (Technology Services Int) , Cleveland Lawrence, V, 011-629-5111; barry.bredenkamp@eskom.co.za	X	X	X	X	X	
Umbane Solutions , Durbanville Murphy, Terry, 021-979-0685; umbaneone@mweb.co.za	X	X	X	X	X	
Venn Diagnostics , Sandton Strydom, Johan, 011-883-0000; johngs@venn.co.za	X	X	X	X	X	
Voltex Lighting Donald, Drew, 011-622-4910; ddonald@voltex.co.za	X	X	X	-	X	
Zamori Eng Services & Fac Mngrs , Montana Park Gouws, Johan, 012-548-5970; jpes@icon.co.za	X	X	X	X	X	
Zaptronix Limited , Weltevredenpark Stratentwerth, Jens, 011-238-2140; jens@zaptronix.co.za	-	X	X	X	X	
Zenergy , Craighall Passmore, Don, 011-442-4419; donp@zenergylms.com	X	X	X	-	X	