

Issue No. 2 / June/July 2009

# the Integrator

a newsletter for System Operations and Planning employees



Countdown to  
**2009 Confed Cup**

National Control  
achieves 120 Days  
**Operating Error-Free**

Energy Efficiency fever  
**hits Simmerpan**

One on one with  
**Robert Koch**

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## Ready...Steady... Confederations Cup!

2009 is really going by very quickly and in no time we will be welcoming many visitors into our country to experience the 2010 World Cup Tournament. The Confederations Cup is a few days away and there is absolutely no time to be wasted in terms of finalising the preparations and making sure that our country delivers the best 2009 Confederations Cup ever. The Confederations Cup will be a great test for South Africa to actually prove to the world that it is ready and able to host the 2010 World Cup. As a curtain raiser for 2010 World Cup, South Africans will have to be united and make sure that we welcome and host the many nations that will be visiting our country.

Eskom is ready for the Confederations Cup and our division is also ready for this great event. To read more on SO&P's Confederations Cup preparedness, turn to page...

Whether it is the 2009 Confederations or 2010 World Cup, it is with no doubt that Eskomites will be playing a vital role in "powering South Africa" through a successful event and into an even more successful future...and all of this during a period of limited electricity capacity and an ever increasing demand. Despite all the energy constraints, working together as a team we will make the 2009 Confederations Cup a great memorable success.

## MD's Corner



Dear Colleagues

The last three months have been a bit surreal compared to the "excitement" of the same period last year when "load shedding" became the topic of every conversation in the country. Our goal of not load shedding after April has been met and we hope will continue to be met. The focus on operations and the reduction in demand due to the economic crisis has assisted in meeting this goal. Our Division has played a significant role in this achievement and once again I want to thank all of you for your individual contributions. It has been a real team effort.

Our operational challenge this year will be to continue to ensure there is security of supply; remembering the significant sporting events in the coming year such as the 2009 FIFA Confederation Cup and the 2009 ICC Champions Cup, while meeting the restrictions placed on us by the global financial crisis.

Our Division has an ambitious agenda for this year in the planning arena where we want to put forward the long term energy and transmission development plans to meet a range of scenarios indicating clearly when choices have to be made, the implications of these choices and the consequences of them not being made. This is all in support of the role Eskom has to play to drive the South African dream. These plans are being made in an era of increasing complexity due to climate change imperatives, funding challenges, the opening up of the energy market and the transformation of the electricity supply industry.

We need all of you to focus, innovate and deliver to the highest standard possible on our responsibilities. We must do all of this safely and responsibly. I am confident that with the team we have in place we will be able to do this.

Thank you once again for your support and contributions.

Best wishes  
 Kannan Lakmeharan

With all the excitement and anticipation of the Confederations Cup and 2010 World Cup, it is inevitable to mention the economic crisis that has hit the entire world. The year 2008 and 2009 will definitely go down as the worst years in terms of the economic stability of the world and our organisation as well. The global economic crunch has really impacted on us as an organisation. The whole organisation is now speaking the Save Language. We are continuously urged to save costs whether it be in our Divisions, Business Areas and Departments. So as true Eskomites we must come together and work hard to save energy, money and most importantly our environment. All it takes is just an individual commitment and the difference will be huge.

In the spirit of the 2009 FIFA Confederations Cup we say in unity "Ke Nako". The time has come and Eskom is ready and waiting. Don't forget to be a part of this publication, send through your comments, business information and personal stories. This is your newsletter – own it.

Till next time  
 Masentle



From left: Alan Nambiar, Elizabeth Marikela and Correen Gertzen

## SO&P ready for FIFA Confederations Cup Tournament



*"With the Confederations Cup a few days away, we had to find out from our divisional Confederations Cup Preparedness Team what it is they have been up to in terms of preparing and making sure that we as a division are ready for this historical event."*

We spoke to Elizabeth Marikela, Alan Nambiar and Correen Gertzen who gave us a brief overview of their preparation.

### So what have you been up to in terms of preparing for this big event?

For the last 9 months we have been actively involved in the Eskom 2010 MW Project, working closely with government at national, regional and local levels, as well as representatives from the municipal and metro electricity departments. We have also coordinated with host cities, FIFA, Local Organising Committees, tourism authorities and the information and communication industries to meet the demands of the event. We have been representing System Operations & Planning division at the Regional Task Team meetings for the FIFA Confederations Cup, and the 2010 World Cup preparations. Our inputs to this work group are on a technical level, ensuring adequate capacity for the events.

The Confederations cup matches will be held at stadiums in Bloemfontein, Pretoria, Johannesburg and Rustenburg, whereas the host cities of the 2010 World Cup also include Cape Town, Durban, Port Elizabeth, Polokwane and Nelspruit. We were responsible for Emergency Preparedness exercises (EPP's) done for the Transmission stations which supply these eight cities. Currently we are also in the process of drawing up joint EPP's with Distribution and the municipalities of these host cities. These joint EPP's include plans to ensure adequate supply to, for instance, O R Tambo airport, fan parks, prime accommodation and main shopping centres.

For the duration of the events, our responsibilities also include active participation in Situational Awareness Centres. These centres include a team of specialists working shifts around the

clock for the duration of the Confederations Cup, providing technical updates of the network on a twice daily basis. This team consist of technical as well as communications personnel, and is also responsible for rapid response in the event of a network crisis.

### Which technical operational measures will you be undertaking during the Confederations Cup?

The Confederations Cup which will be held from the 14th – 28th June 2009, is considered a trial run for the long awaited World Cup which will be held from the 11th June – 11th July 2010. While most stadia are fed from municipality networks, Eskom provides the in feeds to these host cities, and in the case of Rustenburg Eskom provides the direct supply to the stadium.

### In terms of emergency preparedness:

- Emergency preparedness exercises have been done – with at least one per host city
- Significant work being done in improving our capability to restart from a network "black out", including enhanced training and interaction with other stakeholders
- Interaction with other Disaster Management Bodies

### In terms of updating of TEMSE:

- Indication of which feeders are critical for security of supply
- Management of database updates to limit risk during event
- Normal business is to ensure that if SCADA system fails there is a backup. A recent test was performed to check the availability of the backup that is run from the Standby Control Centre. The test was proved successful.

### In terms of forecasting and generation availability:

- SO forecast for winter demand
- Influencing generation maintenance plan to ensure adequate capacity on line over period

### In terms of Outage management:

- Managing outages on the Transmission system – not allowing equipment to be switched out that influences the reliability of supply, not only to host cities but also other key tourist or high profile areas.
- In terms of UFLS (Under Frequency Load Shedding):
- Key load that is on UFLS has been identified, and where necessary settings changed and load swapped with less critical load. The UFLS scheme has not been compromised. These changes will continue to be in place beyond 2010

### In terms of Manual load shedding:

- For the Confederations Cup, key areas in the host cities will not be included on the load shedding schedules for the first two stages.



# CUSTOMER NETWORK BUSINESS Update



Dear Colleagues, 2008 saw Eskom facing the most challenging period in its history, due to the electricity capacity shortages that led to widespread load-shedding.

At present, the power system is stable, but as long as we linger on the lower end of the reserve margin, we are constantly at risk of load-shedding. Currently, the demand management initiatives in the form of energy efficiency demand-side management and power conservation are the only options by which we will be able to achieve power system security. For the longer term, the build programme is the solution to a secure power system, with a healthy reserve margin.

The current economic downturn began late in 2008. This event brought about an immediate reduction in power demand, with the prospect of very low electricity growth demands of between 0 and 2 per cent for the next two years. The rollout of the power conservation programme is being reassessed because of this, and it provides an opportunity to phase in at an easier pace for the consumer. The downturn has also required

us to review the manner in which we conduct our business. As Eskom and, specifically, CNB ambassadors, we need to continuously act prudently when utilising business resources and incurring expenditure. While the business activities must continue, each of the CNB divisions has issued practice notes that are feasible within your business areas. It is important to act on these practice notes; if there is any doubt, you are most welcome to contact your direct line manager for advice.

Another key responsibility in our business is the Special Project 2010 that must ensure security of supply for the host cities of the 2010 FIFA World Cup in South Africa. Thank you to those who are involved in the project to ensure that we deliver on this initiative. Let us make Eskom and South Africa proud of hosting this high-profile event.

Safety remains a very important focus for our business. While there has been a tremendous improvement in safety results, I urge you to continue changing the safety culture and to observe safe practices in whatever task you do. Remember to adhere to the Eskom Cardinal Rules for Safety at all times. Safety is non-negotiable in how we run the business.

Given the pressure and challenges we face, I would have liked to connect more effectively with the business. I intend to remedy this situation through continuous communication in various forms. Among these initiatives will be a regular standard column in our divisional publications, with this being the first of many more to come, site visits to meet and dialogue with you in person, and other initiatives that allow us to share information and business thinking to ensure CNB and Eskom alignment.

For now, I would like to take you through the Customer Network Business structure and its interface with the broader Eskom. The Customer Network Business was established in February 2008, as a result of our Chief Executive's need to consolidate the business into meaningful portfolios where risk could be managed in an integrated manner. Hence, the Eskom business was reorganised as follows:

This structure introduced key portfolios of activities. Specifically, within CNB, the divisions and special projects are intact and managed according to their mandates as asset managers, system operators, or system planners. The 2010 Special Project is a cross-cutting initiative. The Business Strategy and Integration Unit was established to manage cross-cutting portfolio matters and to coordinate CNB strategy as a power delivery portfolio within Eskom.

The Customer Network Business (CNB) was initially coined as Networks and Customer Business. After some deliberation, the decision was to change to Customer Network Business (CNB). The change focuses our mandate as placing the customer first in our day-to-day activities as a business. We need to live this philosophy of "customer first" by using our strategic asset, the network, to meet customers' needs. Individual CNB divisions have clear product outputs, but collectively we provide a service of power delivery to our customers. Divisional outputs are summarised below.

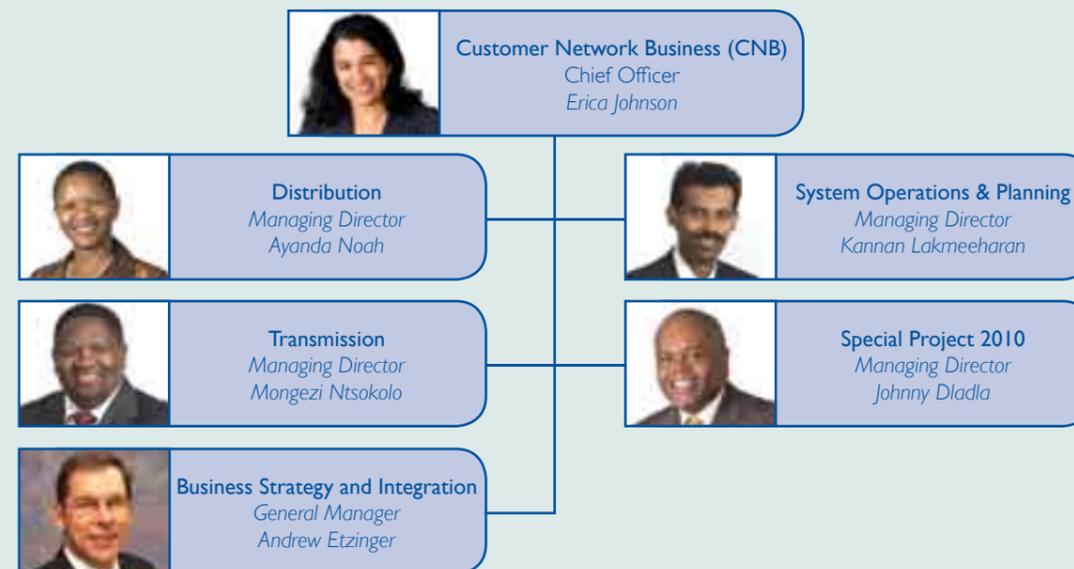
The CNB extended leadership is currently reviewing some key policy issues aligned with the Eskom priorities. We are currently busy taking stock of the policy issues as a power delivery business in terms of our skills position, looking at how asset management is done, assessing our resilience as a business, and focusing on customer service delivery, demand management and energy efficiency, branding and marketing of the business, financial planning and integration, and finally safety, health environment, and quality.

In conclusion, although we are facing many varied challenges, I am inspired by your efforts and dedication to the business and rely on your continued support in delivering on our respective divisional mandates in a safe and responsible manner.

Over the next few months, I will be looking forward to visiting the regions and business areas to meet and have conversations with you.

Best wishes  
Erica Johnson

<b>System Operations and Planning</b>	Eskom's System Operations and Planning Division's role is to provide an integrative function for the reliable development, operation, and risk management of the interconnected power system
<b>Distribution</b>	Distribution's role is to manage the retail business and optimally operate and maintain the South African distribution network, while playing an active role in the restructuring of the electricity distribution industry (EDI)
<b>2010MW Project a</b>	The 2010MW Project's role is to ensure reliable electricity delivery, Eskom preparedness, and mitigation of risks to enable a successful FIFA 2010WC
<b>Transmission</b>	Transmission's role is to optimally operate and maintain the life cycle of the South African transmission network, while managing key customer relationships and trading energy internationally



# Eskom celebrates 2010 FIFA WORLD CUP 500-Day Countdown



Ayanda Noah, MD Distribution and Johnny Dladla 2010 Project Office pledging their support.

Tuesday, 27 January 2009 marked the 500-day countdown to the 2010 FIFA World Cup – a day which many South Africans celebrated. MWP and Simmerpan were no different as employees celebrated by pledging their support and commitment to powering team South Africa towards the FIFA 2010 World Cup.

Kicking off the days events at MWP was the MD 2010 Project Office, Mr Johnny Dladla who updated those present on Eskom's 2010 FIFA World Cup four-phase plan, a journey which the organisation embarked on in April 2007, which is currently on track. He reiterated that for Eskom to ensure a reliable electricity delivery, preparedness, and mitigation of risks at the two upcoming soccer events, it will require a concerted effort from all Eskom employees. "We must work together to ensure that the left hand is talking to the right hand and that Eskom approaches the job at hand as a team," said Johnny Dladla.

The Chief Executive Mr Jacob Maroga echoed the message in his address: "Eskom is in the frontline as the supplier of electricity to the nation, and we are a key player in the national team's preparation for an influx of the world's best football players and thousands of fans from around the world. At Eskom, we have taken this charge seriously and have been working steadily to make sure that everything runs as smoothly as possible for the event and the 'curtain-raiser' for the FIFA Confederations Cup - being staged in South Africa in 2009."

After the Chief Executive's address at MWP, the fun and games began for all staff. The Chief Executive unveiled a giant-sized



Staff at National Control Simmerpan in their favourite Team's soccer jerseys.

“Eskom is in the frontline as the supplier of electricity to the nation, and we are a key player in the national team's preparation for an influx of the world's best football players and thousands of fans from around the world.”

Eskom United soccer shirt at MWP, urging Eskom guardians to make their commitment by pledging to pull out all the stops, to show that South Africa can host these prestigious world-class events.

Mr Maroga was the first to publicly make his pledge by hand-printing his signature onto the Eskom United 2010 soccer shirt, followed by Erica Johnson, Chief Officer: Networks and Customer Services, and Johnny Dladla, Managing Director of the 2010 Project Office.

MWP staff followed suite by demonstrating their commitment by hand-printing their signatures onto the giant-sized soccer shirt. The giant shirt is currently on display in the atrium at MWP to remind Eskom guardians of the commitment made to our country and the continent.

Meanwhile at Simmerpan staff members came to work wearing their favourite soccer team jerseys. Those who arrived wearing the Bafana Bafana soccer jersey won themselves the official Eskom United Soccer ball signed by SO&P Managing Director Kannan Lakmeharan. In true 2010 spirit, staff at Simmerpan displayed true soccer fever with many wearing their soccer jerseys and exhibiting them with pride. With all this passion and pride it is clear that the 2009 FIFA Confederations Cup and 2010 World Cup will be a success.

In this spirited fashion, in the words of Johnny Dladla, Managing Director of the 2010 Project Office "Let the games begin" ■



Brian Dames: Chief Office, Generation Business

## The Countdown to 2010 FIFA World Cup has begun and Eskom is ready...

Eskom's three year plan for the 2010 FIFA World Cup is geared towards ensuring reliability of electricity supply for the duration of the World Cup. Split over four phases, the plan included studying events around the world that were facing similar challenges. These included the FIFA World Cup in Korea where a similar situation to that of South Africa existed prior to that nation hosting the event in 2002. Closer to home, the Confederations of African Football (CAF) African Cup of Nations event in Ghana during 2008, where utilities were given short notice of power requirements, was examined.

Eskom has already moved from the first phase of planning for the event.

### Phase One: Preparing the way

The first phase was vitally important as it set the pace for the entire process. During its 12-month duration, Eskom was able to focus on and review the basic requirement of the event - namely, ensuring that there is a reliable electricity supply chain in place for all events.

The primary focus on this activity, contrary to prevailing reports, was not only on the supply of power to the stadiums, but also

on ensuring that the country is in position to make sure that fans will enjoy the event, even if they are viewing it in a 'fan park' – hundreds of kilometres from a stadium. Over the past year Eskom intensely focused on the necessary planning to achieve the primary objective of ensuring reliable power supply for the 2010 World Cup.

Risks were identified for action within each of the divisions. For System Operations and Planning the following risks that were identified were:

### SO&P 2010 World Cup risks

- The implication of insufficient reserve margins
- Sudden cold fronts and extreme weather conditions, and the impact on electricity consumption
- Inaccurate short-term electricity forecasts
- Simultaneous failure of more than one piece of equipment on the national grid
- Outage constraints to carry out refurbishment and expansion
- The impact if a network is constrained and failures may result in load shedding. ■



Woza Confederations Cup... says SO&P employees.

On 5 June 2009, just a few days to go before the Confederations Cup kickoff – SO&P division decided to have a welcoming celebration for this prestigious soccer event.

Tendani Rasilingwani (Finance and Business Support Manager) kicked off the event by welcoming everyone and urging them to go out there and give their unlimited support to this prestigious soccer event.

# Safety Milestone

## National Control achieves 120 Days Operating Error-Free

Around mid-2008, Norman van der Merwe, Power System Manager at National Control, began a "Let's Correct" initiative aimed at enlightening National Control staff to become more aware of the impact that operating-errors have on the organisation and its equipment and in return to reduce and eliminate operating errors.

Each month a new "Let's Correct" article is written and aimed specifically at the functions of the National Control Centre and bringing awareness to the importance of the functions and accuracy of operating. The emphasis of awareness is to clearly indicate and then instruct the intention and specific instructions of work to all parties involved.

The challenge was accepted by all and attention was directed on all aspects of operating, from the communication with customers to the logging of operating instructions. Robbie van Heerden, then National Control Manager, challenged National Control to reach 120 days Operating-error free. This initially appeared to be a very obtainable goal, but when evaluated in terms of the tens of thousands of instructions issued from the Control Centre monthly and the history of errors, it proved to be more daunting than initially anticipated.

Happily, on the 28th February 2009, National Control achieved 120 Days Operating Error-Free!

This achievement is due to the high level of input, focus and dedication by all the staff at National Control. National Control management and staff understand that this same level of commitment must be maintained to remain operating-error free and are now working toward achieving 240 Operating Error-Free days.

National Control has identified four Imperatives for 2009 aimed at eliminating Operating errors:

- 1. Make the Right Decisions**  
Mistakes cost money. Whether or not there is damage to equipment, there are costs involved in making mistakes. Focus on doing things right.
- 2. Be On the Lookout for Blind Spots or "Bear Traps"**  
Being aware of all situations or conditions prevents being caught and possibly making mistakes.
- 3. Have Clear Visibility of your Objectives and Intentions**  
By knowing what you want to do and how you will do it, you will meet your objectives and intentions without incident.
- 4. Train, Train and Train Again**  
Seize the opportunity to close critical skill gaps with "not-in-play" training. ■

Let's Correct.  
By: Norman van der Merwe [SO]



# Interview with Keagile Comfort Masike



### 1. Where were you born and tell us about your childhood?

Ga-Rankuwa township near Pretoria. We moved to a village called Bethanie near Brits and that is where I grew up. If not playing with other boys I was always studying. I used to enjoy learning a lot. I matriculated at Tsogo High School in De-Wildt.

FACTFILE	
Name	Keagile Comfort Masike
Designation	Technical Operations Manager, System Operator
Married	Yes
Wife's Name	Motshabi
Children & Ages	One boy, Lesego, 9 and two girls Lesedi 6 and Lethabo 2
Education	BSc Electrical Engineering, UCT. Also completed subjects for MSc in Engineering Management with UP, research project remaining.

### 2. What have been difficult moments in your life as far as making your career a success?

I thought since I was the best student at high school, studying Engineering at UCT would be piece of cake. Nothing could be further from the truth than that. Varsity was a humbling experience for me.

### 3. When did you join Eskom and your career path from then?

From varsity I joined Eskom in 1995 as an EIT at Lethabo Power station. As an EIT on a rotational program I spent 4 months with PTM, and decided this is what I want to do. They were responsible for protection systems at the power station. When the opportunity came I joined PTM in September 1996. I learned a lot about protection and electrical equipment during this period. I was also doing standby - and some of my most valued lessons were at very odd hours.

I came to Transmission in 2000, responding to a Protection Settings senior engineer advert. I thought since we were not calculating settings at Lethabo, this would be an interesting area of development. It would also introduce me to the Transmission System.

I was responsible for North East grid settings, and later appointed Chief Engineer to head the Settings team in 2002. In 2006 I became Operations Performance Department Manager and later Technical Operations Manager in 2008.

### 4. What is your role in this division?

As Technical Operations, we do our part to keep the lights on by supporting National Control through various functional activities. Mine is a strategic role, ensuring that we will be able to do so in the future as well. I also ensure that operational risks escalated to me are addressed.

### 5. What have been major challenges so far?

The change from a pure technical role to a team leader role in Settings was a challenge. The issues were different. But I had all the support I needed.

### 6. Tell me about your achievements/ career highlights?

I look at my career path as an achievement. I also presented a number of papers at conferences.

What is also rewarding is to see some of the people that worked with me take on responsible roles within the organisation.

### 7. How do you feel about Eskom in one short sentence?

An organisation with ample career opportunities.

### 8. What are your future goals in SO&P?

I would like to see our entire division become an example of how an organisation should invest in its people. I would also like to see it internalise the principles of our Business Management System (BMS), which are intended to make continuous improvement in an organisational culture.

I am prepared to do my contribution in this regard.

### 9. What are you passionate about?

Skills development.

### 10. What drives you towards success?

I want to see a goal achieved. I also want to see other people grow in the process.

### 11. Your grand Strengths?

Teamwork - Insight to approach and solve problems.

### 12. Your grand weaknesses?

I think I am too accommodating at times.

### 13. Your five favourite things?

Music, reading, chess, pool and volleyball

### 14. Five things we do not know about you?

I come from a family of four boys, all starting with letter K. I love singing but was chased away from all forms of singing groups, except the church.

I used to lecture Electrical Machines III at the Vaal University of Technology in the evenings, as well as protection courses at the Eskom Learning Institute.

### 15. Who is Comfort Masike on weekends?

I spend time with my family and sometimes with relatives or close friends during weekends. ■



Universal AutoPoweroff multiplug to help save energy in the home.

## Energy Efficiency fever hits Simmerpan

On 24 March 2009, Simmerpan hosted the first leg of the Energy Efficiency Road show and the occasion was a fun and educational experience for all those who attended. Dhevan Pillay – Transmission Strategic Key Customer Manager, who has been tasked to drive the Energy Efficiency wagon was present and he delivered an information packed presentation on Energy Efficiency. His presentation emphasised on the importance of behavioural change and tips on how to save energy at home and at work.

In its entirety the Energy Efficiency Roadshow is a programme which is aimed at key industrial customers, residential customers and all employees of Eskom.

### The Energy Efficiency Programme Roadshow aims to:

- Create awareness and understanding of the energy crisis
- Emphasise the effects on the economy
- Reassure employees that through our collective efforts, we can make a difference
- Encourage employees to play a responsible role in the use of energy
- Demonstrate that energy efficiency creates financial savings
- Discuss and compare the effects of energy efficiency and effectiveness
- Appeal to members of the audience to become Energy Efficiency Ambassadors through information sharing and advocating the need for changing behaviour.

The Roadshow at Simmerpan was well received by the attendees and they also had the opportunity to win great prizes by answering easy practical questions posed by Dhevan Pillay during the presentation. The Roadshow at Simmerpan not only included a presentation but there was also a DSM and Energy Efficiency exhibition inside the venue where suppliers showcased their innovative and energy efficient products such as energy efficient showers, energy efficient auto-switch multi

plugs, geyser blankets, and CFL light bulbs. There was also a competition ran where attendees answered a simple question and entered their entry forms so that they could stand a chance to win a great prize. The winner of the competition for the Simmerpan region was Lynn Dowries from Transmission Application Department.

Outside, at the venue where the Roadshow took place an industrial theatre group was on stand by to offer the audience a funny and informative performance. Dressed in bright coloured Super Hero outfits the actors performed energy efficient stunts and the audience also took part in some of these stunts which included riding bicycles that created energy to switch on a coffee maker and energy efficient light bulbs. The performance was such a hit with the audience and it proved that the right messages were sent out and well received by the attendees that were present at the Roadshow.

The Energy Efficiency Roadshow at Simmerpan was a great success and employees pledged their support to continue being Eskom's Energy Efficiency Ambassadors at home and at work. ■

By: Masentle Tekane  
[BS&P]



## Energy, Climate Change, and how to avoid a Manmade Disaster

Today the world is driven by energy and our consumption of energy directly relates to our standard of living. The developing world is driving to obtain the ultimate standard of living, as compared to the developed nations.

With cheap and plentiful supplies, many have become accustomed to easy living and unnecessary commodities. This drive of developing countries towards achieving the developed status, by implementing steps to secure their future, is increasingly putting pressure on the world's available resources. This global increased use of scarce resources has also created some major environmental challenges. There is very strong evidence that the human industrialisation and increased production and use of energy, has caused the increase of green house gasses and global average temperatures. Of the known green house gasses, CO<sub>2</sub> stands out as one that has the most detrimental impact in its role in global warming. Although there are still a lot of unknowns, it is an accepted fact that CO<sub>2</sub> does affect global temperature, which in turn will definitely impact life and the health of the planet. Already anomalies such as flash floods, record high temperatures and increased bush fires are increasingly experienced in South Africa and the rest of the world.

According to known historical data, 19 of the 20 warmest years since 1860 were all in the last 20 years, with 2005 being the warmest. Scientific data indicate that current temperatures may possibly be the hottest in the last 400 000 years, and that CO<sub>2</sub> concentrations are even higher than the highest value estimated during this period. Currently no two persons agree on how exactly global warming will effect life and the planet, but it is generally accepted that higher temperatures could



Vanderbijlpark - Flash flood.

support multiplication of pest that could destroy crops, increase duration of dry seasons, longer droughts in parts of the earth and flooding in others. Many animals will become endangered or extinct. The brunt of the environmental effects will be felt by poorer nations who do not have the resources to put preventive measures in place. South Africa itself will feel the impact more severely, as the increase in Global average temperature could turn the already arid regions into desert, and with sea level rises caused by melting polar caps and glaciers, much of the 3000 km coastal areas will become submerged. Cape Town with much of the reclaimed land laying below sea level, a 1 to 2 meter rise in sea level could cause catastrophic disasters. In figure 3 predicted flooding is modelled for the gulf of Mexico, Egypt and India.

Global warming is a current event which will affect us, and more severely our children. This, as responsible custodians of this world, we all need to understand the tough challenge we are faced with and what it is we are doing that contributes to global warming and how we can reduce our contribution drastically. The time for discussing, debating or confirming that Global warming is real has come and gone. We are increasingly faced with its effects and if we all do not make drastic changes in our behaviour and daily choices, we may not be able to save the world, and become as extinct as the dinosaur. Just another life form that has for a brief instant made an appearance in the history of the world. This is the first article from the SO&P Energy Efficiency Committee, which will hopefully serve in creating awareness of the Global issue we are faced with, what the causes are, and what we as custodians of the Earth need to do in order to save the environment as we know it, so that our children and their children may one day look back and thank us for being responsible and acting in good faith. ■

By Jan Muller [SO]

## Saving is the Point

### Power System Manager at National Control Realises a Saving for Eskom

On the 23rd of February, Power System Manager (PSM) on shift at National Control realised that the Vanderkloof Dam was close to spilling water. At Gariep Dam all four generators were already on load and running full time and one unit was on load at Vanderkloof.

The PSM contacted the Peaking Manager to confirm that Vanderkloof will be spilling water and he requested permission to put the second unit on load. Both units had now been running from the 23rd of February and resulted in the overall reduction in the system marginal price of generation and the saving on the burning of coal.

Even if this may not seem as such a big thing, the running of one Vanderkloof unit for one hour will save in the region of 46 tons of coal an hour (presuming 2.6 MW can be generated per ton of coal). This additional unit had been running 171 hours at the time this article was written on the 2nd March at 14:00. This hydro unit generating has saved 7866 tons of coal and prevented 6686 tons of CO<sub>2</sub> to be emitted into the air.

It must be said that as soon as the Vanderkloof Dam started spilling, the Department of Water Affairs would probably have requested an increase in generating at Vanderkloof. Yet, the proactive approach from the PSM has resulted in some real savings to Eskom, and if we all follow his proactive example we could help reduce our impact on the environment and save money for Eskom.

# The Guardian Programme

- igniting pride and passion in the Eskom brand



Maji Molokoane: MC for the day



Caption to come here.



The Guardian Programme was launched by the Chief Executive: Jacob Maroga on 28 November 2008 at MWP.

The Guardian Programme in its entirety is meant to help inspire Eskomites to understand who they really are, literally, "The Guardians of the South African dream".

**The objectives of the Guardian Programme are:**

- To instil pride and passion in the Eskom brand
- To reach all employees at all levels and communicate the role of Eskom – and by extension, their role – in advancing the south african dream (growth and development programme)
- To empower employees to be ambassadors of Eskom through:
- Improved appreciation of the environment within which Eskom operates
- Better understanding of the state of the power system and the Eskom business in general
- Better understanding of the new build
- Better understanding of Eskom's key messages.

The Guardian Programme was developed to encapsulate the ideals, values and importance of all Eskom employees. It is a staff motivational programme which is aimed at reaching all Eskom employees at all levels. It aims to empower employees and form a unifying and aspiring conceptual basis for all internal communication campaigns.

**Guardian Programme Road show invades Simmerpan**

The Guardian Programme took on the life of numerous road shows and travelled all over to many regions of Eskom to spread the ambassadorial message. The road show finally arrived at Simmerpan and it was welcomed with open hands by all staff at Simmerpan.

The Guardian Programme show was an interactive presentation where a group of actors performed and sang messages that were intended to inspire and awaken a sense of pride in all Eskom staff. Drumming and Tubing was also incorporated during the performance. The Drumming and Tubing was a great tool to get all Simmerpan staff to appreciate the importance of team work. During tubing participants had to work together by beating their tubes in order to make a rhythm that was uniform and melodious. The Simmerpan crowd achieved this and it was clear that they could work together as one and be Eskom's great ambassadors.

The road show at Simmerpan was truly a great success and a great deal of passion, pride and motivation was ignited amongst the staff.

So in the spirit of the Guardian Programme let us come together and say with pride: "We are the Guardians of South Africa. We are powering this great nation." ■

By: Masentle Tekane [BS&P]

## Innovative Energy Efficiency Ambassador

Towards the end of 2008 the Divisional Energy Efficiency Committee sent out an invitation to the Division, inviting all to forward innovative ideas for saving electricity. Although very few entries were received, we nonetheless received some great ideas and would like to express our sincere appreciation for those colleagues that took the time to submit their suggestions.

The winning idea was submitted by Dr John Dean (System Operator- Ancillary Services).

**John Dean's idea was the following:**

In the event that an ELI (Emergency Level 1) warning is declared by National Control during normal working hours, this should be communicated to all SO&P staff. All staff should then switch off office lighting (provided there is sufficient daylight). During the evenings the security personnel must check all offices to ensure that lights that do not need to be on are switched off. The Divisional Energy Efficiency Committee has recommended the implementation of this idea throughout Eskom ; we will definitely keep an eye on the feedback.

**The Prize:**

Dr Dean won a geyser blanket which was presented to him by Mr Greg Tosen (GM: Business Strategy and Planning) on 7 April 2009. Congratulations John!!!

Remember to use electricity wisely.

By: Nozipho Butelezi [BS&P]

Greg Tosen- GM Business Strategy & Planning with Dr John Dean from Ancillary Services Department.





## One on one with Robert Koch



...then

Eskom initiatives in areas related to system reliability, risk, and emergency preparedness.

5. What have been your major challenges so far?  
 Prioritisation of the range of things to be addressed without losing the critical need for meaningful consultation and detail.

6. Tell us about your achievements/ career highlights?  
 Development of a Power Quality Management Framework for South Africa (I was hired as a consultant by the National Electricity Regulator at the time to develop this for the industry). This has opened many doors given that this framework and accompanying set of standards was a first of its kind in the world.

7. How do you feel about Eskom in one short sentence?  
 Being in Eskom right now is a great career move – the opportunity to address the various challenges is a brilliant chance to develop as engineers, accountants, HR practitioners, managers etc ...

8. What are your future goals in SO&P?  
 To build the System Resilience Department into a lean, effective team that can stimulate and integrate various resilience initiatives within and outside of Eskom.

9. What are you passionate about?  
 Getting things right.

10. What drives you towards success?  
 A belief that all challenges can be overcome by a team of willing individuals.

11. Your grand Strengths?  
 Pushing through.

12. Your grand Weaknesses?  
 Taking on too much at a time.

13. Your five favourite things?  
 My family, Contemporary music, film, and art. Travel.

14. Five things we do not know about you?  
 • Until 2005 I toured as a songwriter/guitarist with bands such as Cannedfish and Pilot (that played Oppikoppie and Woodstock - and has just launched a **brilliant** album under its new name "Dear Reader").  
 • I like marzipan.  
 • I don't like bullies.  
 • I wish we all wished we could live in peace.  
 • I prefer not to have to think of exactly five things.

15. Who is Robert Koch on weekends?  
 Immersed in one of my five favourite things. ■

### FACTFILE

Name	Robert Koch
Designation	System Resilience Manager
Married	Yes
Wife's Name	Reneé
Children & Ages	2 girls – 13 years and 9 years
Education	Bachelors degree in Electrical Engineering (University of Stellenbosch) Masters degree in Electrical Engineering (University of Stellenbosch)

1. Where were you born and tell us about your childhood?  
 Born in Johannesburg and grew up at the coast (Somerset West). I spent most of my school career involved in local theatre and rock bands.

2. What have been difficult moments in your life as far as making your career a success?  
 The establishment of Eskom Enterprises and leaving the Eskom stable - I turned this into an opportunity by focussing on international consulting which was in retrospect a great decision.

3. When did you join Eskom and your career path from then?  
 I was an Eskom bursar and joined Engineering Investigations Department in 1990. After my training, I focussed on specialising in the emerging field of Power Quality. After managing the Power Quality Technology Department for 5 years, I was appointed Corporate Consultant (Power Quality) until 2008 when I joined SO&P.

4. What is your role in this division?  
 System Resilience Manager – responsible for integrating

# Sudoku

## Easy

4	3							9
	5	1	8					4
2					5		6	
					8			
7			6	9				1
			5					
	6		7					9
1				4	2	8		
	2						1	3

## Hard

4	3							9
	5	1	8					4
2					5		6	
					8			
7			6	9				1
			5					
	6		7					9
1				4	2	8		
	2							1

## Crossword Puzzle

### Across

- 2 A boisterous laugh (6)
- 4 Being appalled, amazed or stunned (13)
- 8 A weakness (6)
- 12 The outcome or the end result (10)
- 13 A condition marked by short fits of heavy sleep (10)
- 14 To avoid or to shun (6)
- 15 Someone who uses compliments to gain self-serving favour or advantage (9)

### Down

- 1 To frolic (6)
- 3 Relating to, or resembling hedgehogs (10)
- 5 The act of throwing someone or something out of a window (13)
- 6 A written statement made after an oath (9)
- 7 To break a promise or commitment (6)
- 9 To sacrifice, usually by fire (8)
- 11 A mix of discordant sounds (9)