

A decorative graphic on the left side of the slide, consisting of three overlapping circular frames. The top frame shows a worker in a red bucket on a utility site. The middle frame shows a wind farm with several turbines under a blue sky. The bottom frame shows a large industrial building with a zebra in the foreground and smokestacks in the background. The bottom-most frame shows high-voltage power lines against a blue sky.

WCOU Distribution of CFLs for Sustainability

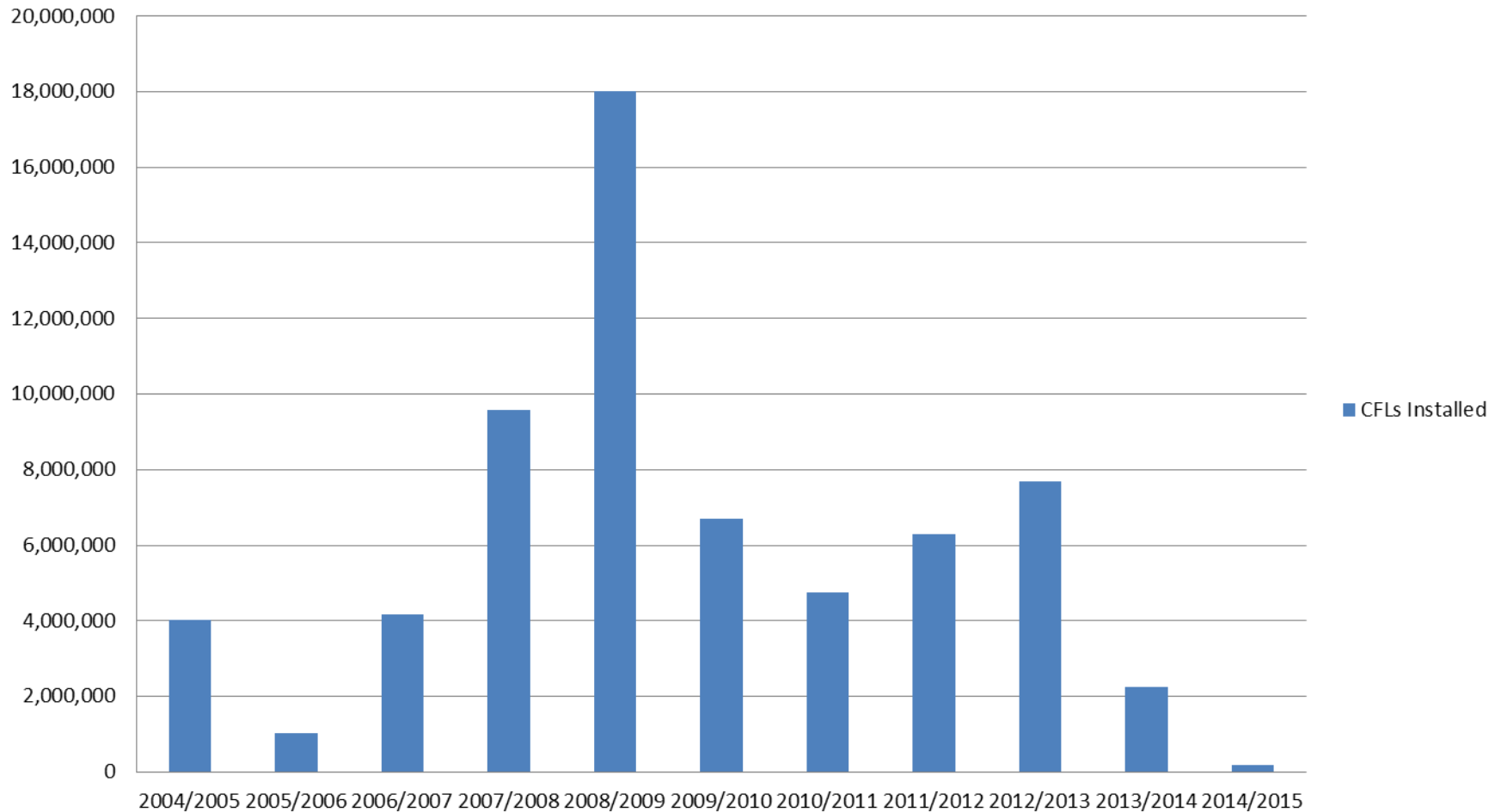
AMEU

13 November 2015

WAYNE FORTUIN

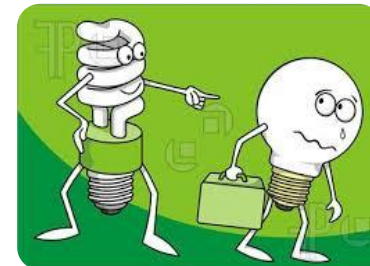
- The mass roll out of CFLs originates from Eskom's current and projected supply demand gap which shows a major electricity shortage in South Africa
- With supply constraints expected to persist for the foreseeable future, the sustainability of these 'emergency' savings is required.
- Since 2005 the Eskom DSM Program have distributed in excess of approximately 60 million CFLs to primarily low income households in South Africa
- The planned roll-out will be 800 000 CFLs distributed to WC Munics excluding the Cape "Metro" Munics. (i.e.. CoCT, Drakenstein and Stellenbosch)
- City of Cape Town, Drakenstein and Stellenbosch will be rolled in "phase 2" during 2016

CFLs Installed Per Year



- **To remove Incandescent light bulbs and non-working Compact Fluorescent Lamps (CFLs) attached to a lighting socket and replace it with a working CFL**
- **Return old incandescent lamps / non working CFLs back to Eskom**

- Target: 800 000 CFLs
- Supply & Procurement – Eskom
- Eskom to Project Manage the rollout. No PM companies will be appointed
- 4 Contractors appointed – Installation Teams
- Eskom to appoint Crushing & Disposal Companies
- Temporary jobs creation in communities where the rollout is targeted.



Esco A		Esco B		Esco C		Esco D			
<p>Danie Snyman, Boetie Marais (Eskom Worcester)</p> <p>(200k)- Masingitaville N1</p>		<p>Chris Zondagh (Eskom Vredenburg)</p> <p>(200k) Citrine N7</p>		<p>Sam Muller (Eskom George) Lourens Conradie (Eskom Oudtshoorn)</p> <p>(200 k) Azusa N2</p>		<p>Tiaan Odendal (Eskom Swellendam)</p> <p>(200k) Similile N2</p>			
<p>Cape Winelands District</p> <ul style="list-style-type: none"> Langerberg Municipality Breede Valley Municipality Witzenberg Municipality 		<p>Central Karoo District</p> <ul style="list-style-type: none"> Prince Albert Municipality Beaufort west Municipality Laingsburg Municipality 		<p>West Coast District</p> <ul style="list-style-type: none"> Bergrivier Municipality Cederberg Municipality Matzikama Municipality Saldanha Bay Municipality Swartland Municipality West Coast Municipality 		<p>Klein Karoo (Eden) District</p> <ul style="list-style-type: none"> Mosselbay Municipality George Municipality Bitou Municipality Knysna Municipality Outshoorn Municipality Kannaland Municipality 		<p>Overberg District</p> <ul style="list-style-type: none"> Overstrand Municipality Cape Agahlus Municipality Swellendam Municipality Hassequa Municipality Theewasterkloof Municipality 	

- Payment to field workers : R2/CFL [Paid by contractor)
- Implementation Period: 26 November 2015 to April 2016



- **Contractor Support:** Eskom Advisor allocated to each Contractor. Eskom Customer exec to be allocated too.
- **Maps:** Eskom to provide maps to contractors – **Municipality to provide assistance**
- **Marketing:** Contractors to assist in pamphlet distribution. Eskom to sort out poster allocation – **Municipality to assist.** Eskom to select newspapers for print adverts.
- **Contractor Training:** Provided by Eskom.
- **Field Worker's Training:** To be provided by Contractors



ID Tags must be returned to the supervisor at the end of each day

Example of Bib



All Field Worker Bibs must be returned to the supervisor at the end of each day

Energy-saving project

Dear Resident,

Save electricity – use an energy-saving lamp!

South Africans need to save electricity, particularly during peak times (07:00 – 10:00 in the mornings and 17:00 – 21:00 in the evenings). One of the ways we can do this is to use an energy-saving lamp or Compact Fluorescent Lamp (CFL), which lasts more than six times longer and uses 80% less electricity than a normal bulb.

Free CFL replacements

Following on the successful roll-out of the new Compact Fluorescent Lamps or (CFLs) seven years ago Eskom is once again on the move. We will be deploying installers to your area to replace spent CFL lightbulbs that have reached the end of their life cycle, and replace them with new ones. They will also advise you on the safe disposal of the CFL once they're used, as well as the safety precautions needed when handling.

Installation notice and process!

Seven years ago we managed to convert millions of South Africans to using CFLs and saved them lots of money. Now, seven years later, we're back to change your spent CFLs and tell you to continue using CFLs to collectively save South Africa's energy. A percentage of homes will be visited by auditors to ensure that new bulbs have been installed. You will be requested to complete a data form (with your name, ID number, physical address and telephone number) as proof that you have received CFLs.

Also note that this is the last roll-out of this very successful electricity saving project where free CFLs are provided, however, Eskom will continue running campaigns to remind you to change to CFLs and use energy wisely and efficiently, as well as how to dispose of spent CFLs. Remember to stick to CFLs as they are energy friendly and longer lasting.

Please only allow installers with a valid CFL project identity card in your home!

More information can be obtained by contacting the Eskom Contact Centre, on 08600 37566 or by visiting the Eskom website at www.eskom.co.za/idm

Yours sincerely



Tso Zwane
Eskom IDM Manager

Supported by your local participating municipality



 Eskom | Powering your world
www.eskom.co.za/idm

Disposal of spent CFLs

Eskom has invested a lot of time and money in this project and is glad to see people being so receptive. We would like to encourage home owners to continue using CFLs as they save money, energy and help us use less power to light your home. CFLs should be handled with care, more especially when you dispose of them, as they contain small traces of mercury. Participating retailers, e.g Woolworths, Pick n Pay and Makro have put out special bins where they have a take back programme of used CFLs for you to safely drop off your spent CFL the next time you go shopping. Quick and easy.

Always store used CFLs in a safe place, in a non-breakable container or plastic bag (to contain the bulb in the event of breakage) until they may be disposed of safely.

Only dispose of CFLs with general household waste as a last resort. In this case, wrap the bulb in newspaper and place it in a plastic bag to reduce the risk of breakage and potential contamination of other recyclable waste and to avoid physical contact with yourself or with waste removal staff.

What do I do if a CFL breaks?

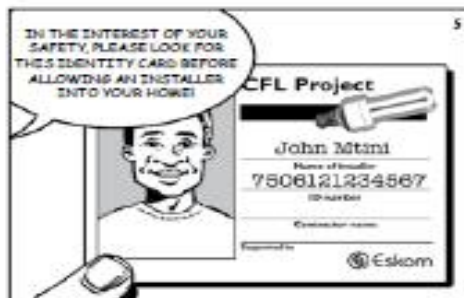
Although the accidental breakage of a lamp is unlikely to cause any health problems, it's good practice to minimise any unnecessary exposure to mercury, as well as risk of cuts from glass fragments.

The following guidelines are therefore recommended in the case of the accidental breakage of a CFL:

- Open windows and allow air to circulate in the room.
- Wear gloves, if available, as a precaution against broken glass.
- First sweep up all of the glass fragments and phosphor powder (do not vacuum).
- Place in a plastic bag.
- Wipe the area with a damp paper towel to pick up stray shards of glass or fine particles.
- Place the used towel in the plastic bag as well.

Comic Strip : Low LSM

Save electricity - use an energy-saving lamp!



Pull-up banner



The pull-up banner features the Eskom logo and the South African coat of arms at the top left. The main text reads: "Renew your spent Eskom energy saver lamps and working incandescent bulbs free of charge". Below the text is an illustration of several hands of different skin tones holding up glowing energy saver lamps. At the bottom, a dark blue horizontal bar contains the word "Here" in white text, with a hand holding a lamp on either side.

 |  Eskom
www.eskom.co.za/idm

Renew

your spent Eskom energy saver lamps
and working incandescent bulbs
free of charge

Here

Posters



The poster features the Eskom logo and the South African coat of arms at the top left. The main text reads: "Shintsha Ama Eskom energy saver lamp asebenzile nazo zonke izinhlobo zama-bulb owasebenzisayo Mahala". Below the text is an illustration of a hand holding a glowing energy saver lamp. The background is light blue with a subtle pattern of small white dots.

 |  Eskom | Powering your world
www.eskom.co.za/idm

Shintsha

Ama Eskom energy saver lamp asebenzile
nazo zonke izinhlobo zama-bulb
owasebenzisayo

Mahala

Usuku:
Isikhathi:
Indawo:

Safety disposal



The safest way to handle your household's biggest energy saver

Long life CFLs for immediate and long-term savings

Worldwide, there's been a switch to the everyday use of energy efficient appliances and CFL lighting, one of the easiest ways to save electricity, money and, ultimately, reduce harmful emissions into the atmosphere.

Bold Initiatives in Canada and Australia aim to see incandescent lights phased out by 2012. In the UK, over 39-million CFLs have been installed in houses to promote energy efficient lighting. South Africans too have seen the light. Eskom has fitted 13-million CFLs in homes across the country. This has resulted in a saving of 1 800MW of electricity – the equivalent to half a power station! These lamps have lowered Eskom customers' electricity bills.

Why save electricity?

CFLs give off the same amount of light as standard incandescent lights, but use just 20% of the electricity. That means you can light up your home using one fifth of the electricity consumed by incandescent bulbs.

Eskom, in partnership with government and business, is urging all consumers to use less electricity wherever possible while we complete new power stations. Installing CFL lamps results in an immediate reduction in power use.

How can CFLs save the environment?

Using less electricity for the same amount of lighting means we can reduce our use of precious resources e.g. coal and gas to produce energy for lighting.

How do they save you money?

Even though CFLs cost a little more than incandescent bulbs, you will more than recoup that cost in lower electricity bills. AND they last up to 10 times longer, so they don't have to be replaced as often.

This consumer CFL product and safety education advertorial by the IESSA is paid for by Eskom in support of consumers and planet earth

Issued by Eskom Integrated Demand Management, June 2011
Eskom Holdings SOC Limited, Reg No 2002/01529706



How safe are they?

CFLs are perfectly safe to use in the home. Research conducted by several independent sources including the New Zealand Ministry of the Environment and the US Environmental Protection Agency have found that CFLs do not pose a health risk in the home if used properly.

While they do contain a tiny amount (less than 5mg) of mercury vapour, this amount is 100 times less than the amount of mercury in a silver tooth filling, 5 times less than the amount of mercury in a watch battery, and up to 400 times less than that contained in a thermostat.

In fact, the average amount of mercury in a CFL is about the size of the tip of a ballpoint pen, and no mercury is released when the lamps are in use.

Mercury vapour only poses a slight hazard in the unlikely event that a lamp breaks. Even then, if the broken lamp is handled properly, there should be no resulting health risks.

But CFLs can pose an environmental hazard if they are not disposed of properly, because they can find their way into dump sites or in landfill sites. Therefore, it is important to treat CFLs as you would other hazardous products such as batteries, paint and electronic elements.

Interestingly enough, despite the presence of small amounts of mercury in CFLs, they actually provide significant environmental benefits because they result in the reduction of greenhouse gases. Why? Because CFLs use far less energy than incandescent bulbs, therefore, less carbon is released into the air by coal-fired power plants – the main source of electricity in South Africa.



The safest way to handle your household's biggest energy saver



Product	Amount of Mercury	Number of Equivalent CFLs
CFL	5 milligrams	1
Watch battery	25 milligrams	5
Dental amalgam	500 milligrams	100
Home thermometer	500 milligrams – 2 grams	100 – 400
Refr. switches in sump pumps	2 grams	400
Tilt thermostat	2 grams	600
Electrical tilt switches and relay	3.5 grams	700

Trevor Milne, President of IESSA, has the following safety guidance for CFL usage. Please follow the easy "Safe Disposal" step in the panel and rest assured that you are doing your bit to protect the environment for generations to come.

- Drop off old CFLs at participating retailers who offer a take-back service, e.g. Woolworths, Pick n Pay, Makro
- Take care not to break the lamps. Drop off old CFLs at designated electronic waste (eWaste) sites. Use municipal collection services for hazardous waste. There may be annual or more frequent – see your local authority where these services are offered. Note: You can also dispose of batteries, oil-based paint and motor oil through these services
- Always store used CFLs in a safe place, in a non-breakable container or plastic bag (to contain the lamp in the event of breakage) until they may be disposed of safely
- Only dispose of CFLs with general household waste as a last resort. In this case, wrap the bulb in newspaper and place it in a plastic bag to reduce the risk of breakage and potential contamination of other recyclable waste and to avoid physical contact with yourself or with waste removal staff

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The rationale is to amplify the objective of getting people to exchange 800 000 CFL's translating to a saving of 24MW

Essentially, radio as a platform will be used for:

- Educating the targeted audiences about the mechanics of the roll-out
- Updating on the developments
- Thanking the targeted audiences for their participation and support
- Creating an engagement platform for Q&A

Support Required from the municipality.

- Support required from municipality's communication department
- Support require from local law enforcement agencies
- Updated list of all wards – electrified homes
- Ward councillor allocation
- Allocation of field workers from the communities to assist for the distribution of the CFLs
- To assist with maps of the targeted area's.

Thank you.



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