

Eskom

Demand Side Management

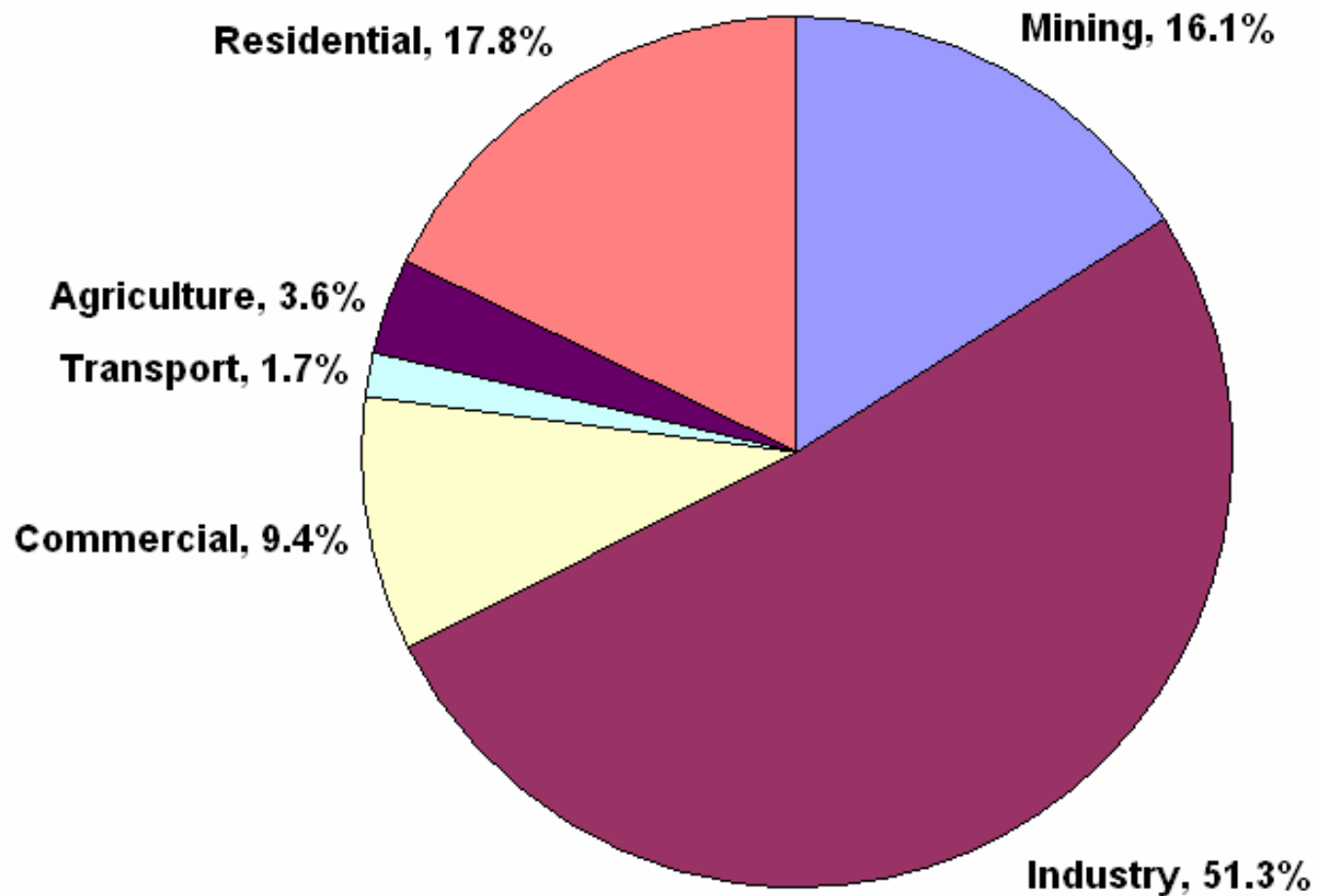
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Introduction

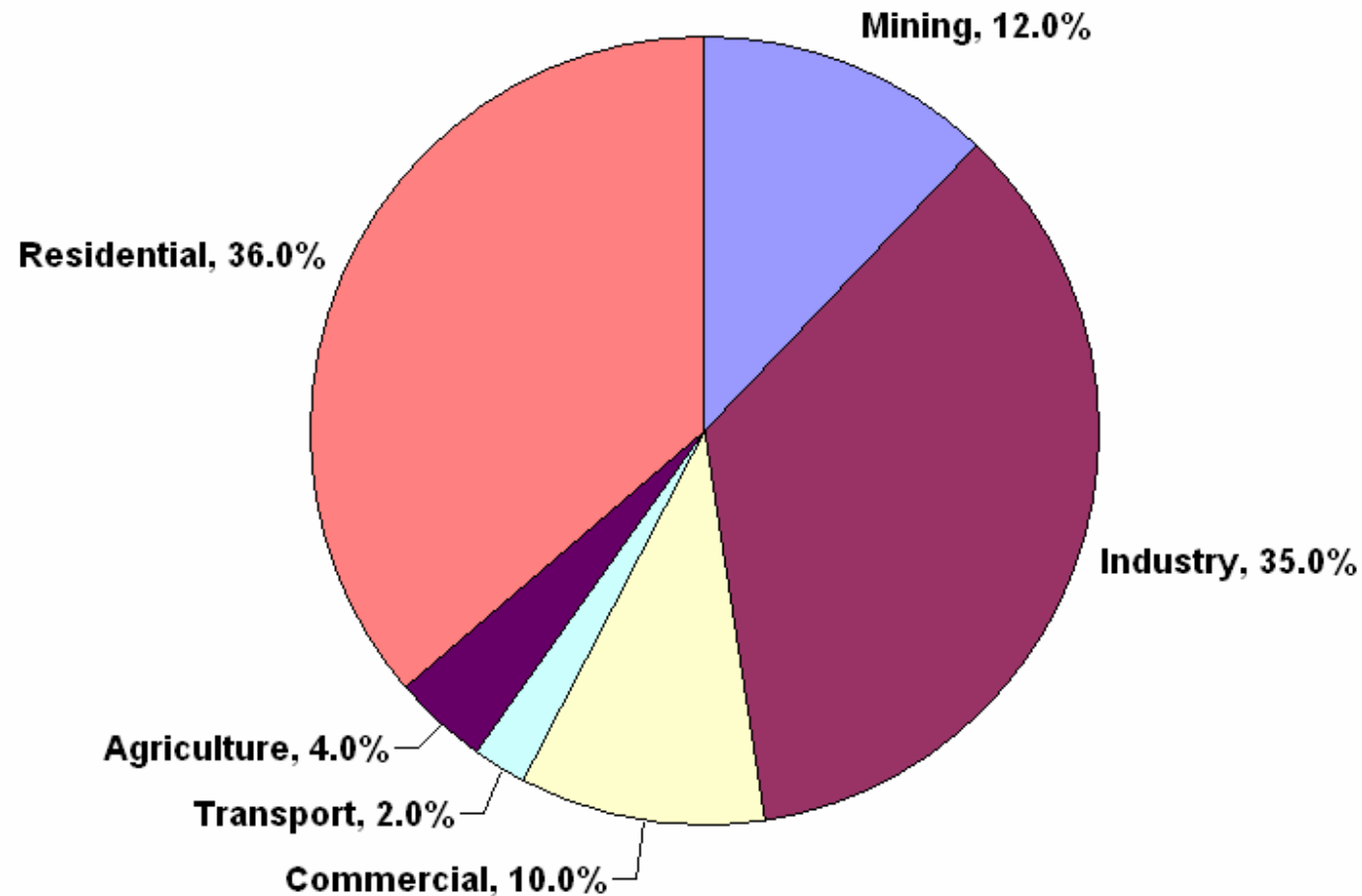
- Electricity consumption profiles
- What is DSM
- Introduce industrial DSM
- Large scale rollouts for industry
 - EE motor program

Electric Energy Consumption



196 567GWh (2006)

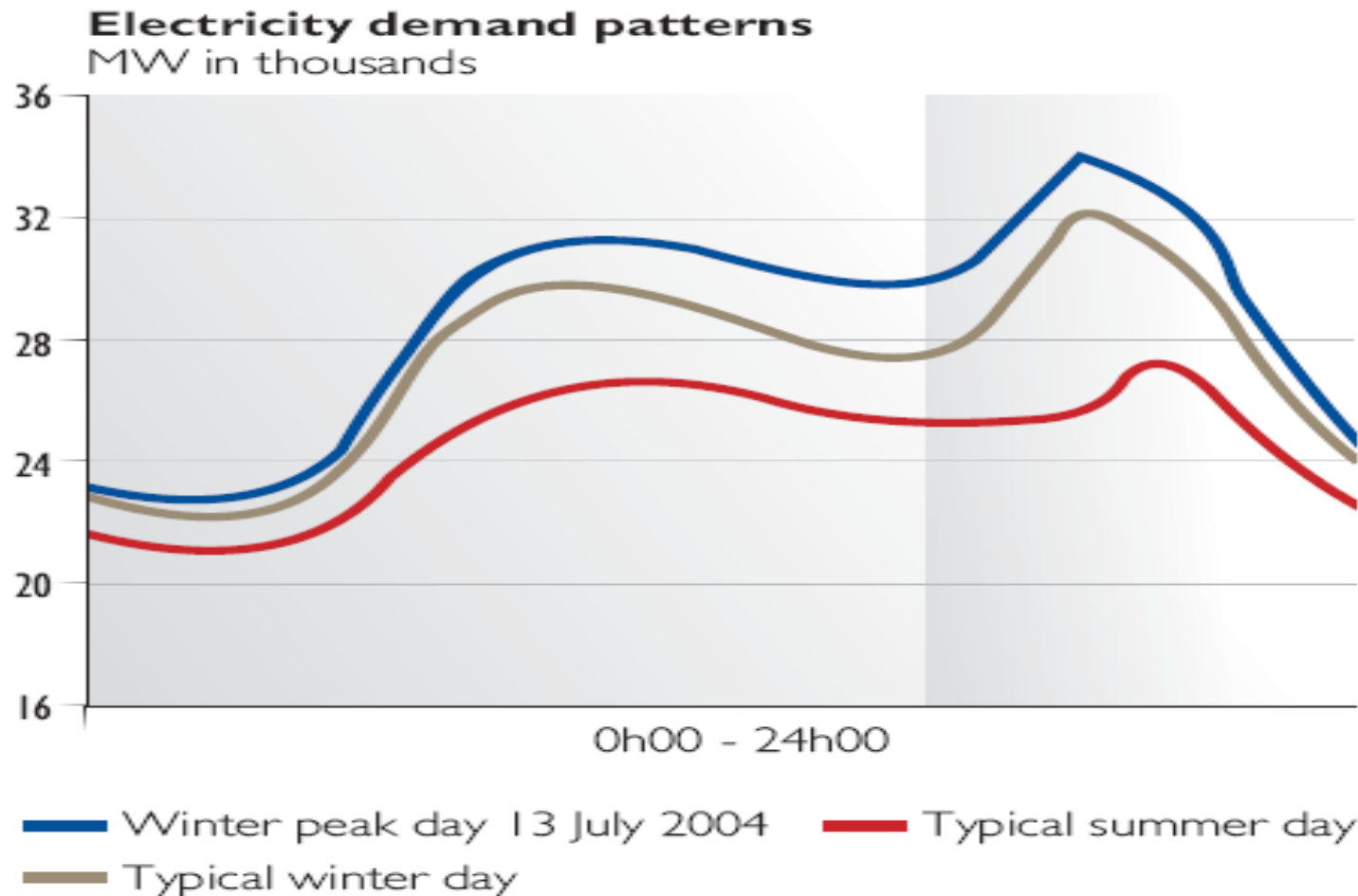
Maximum Demand Contribution



What is DSM

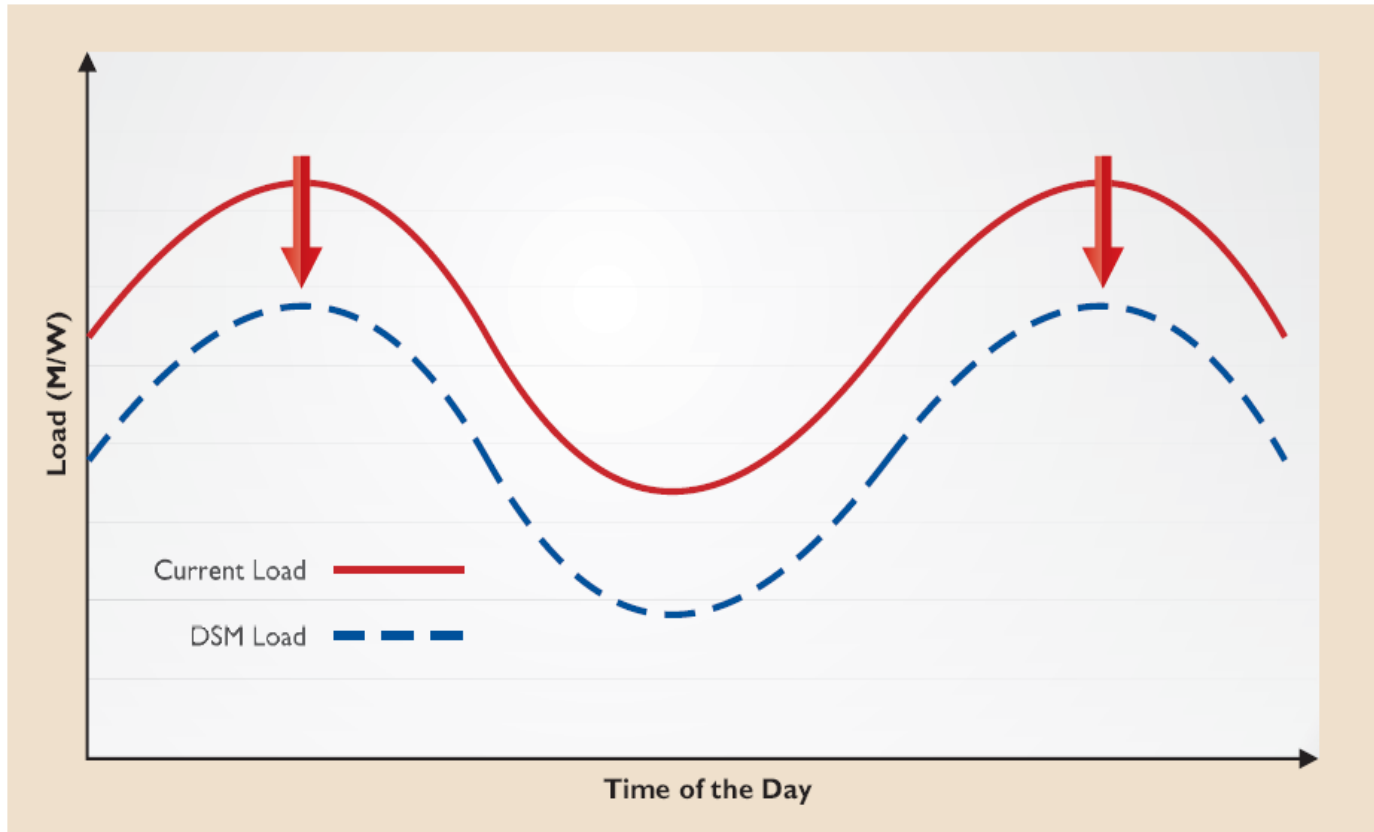
- Create predictable changes in customer demand and load profile
- Alternatives to the provision of additional generation plant.
- Includes load management, peak clipping and energy efficiency

Typical Daily Profile



Demand-side Options

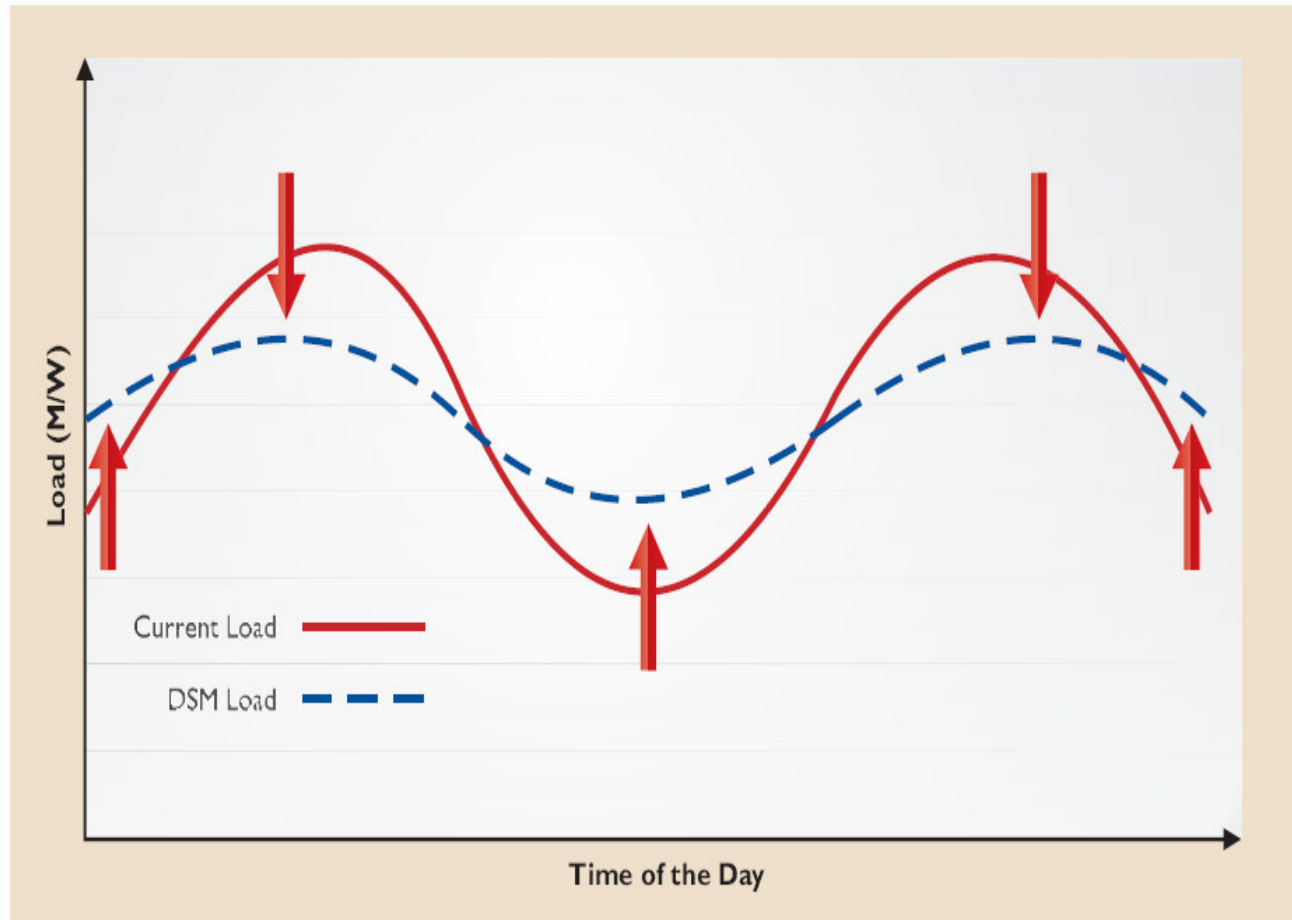
Energy Efficiency



Examples: efficient lighting, VSD, Solar hot water systems

Demand-side Options

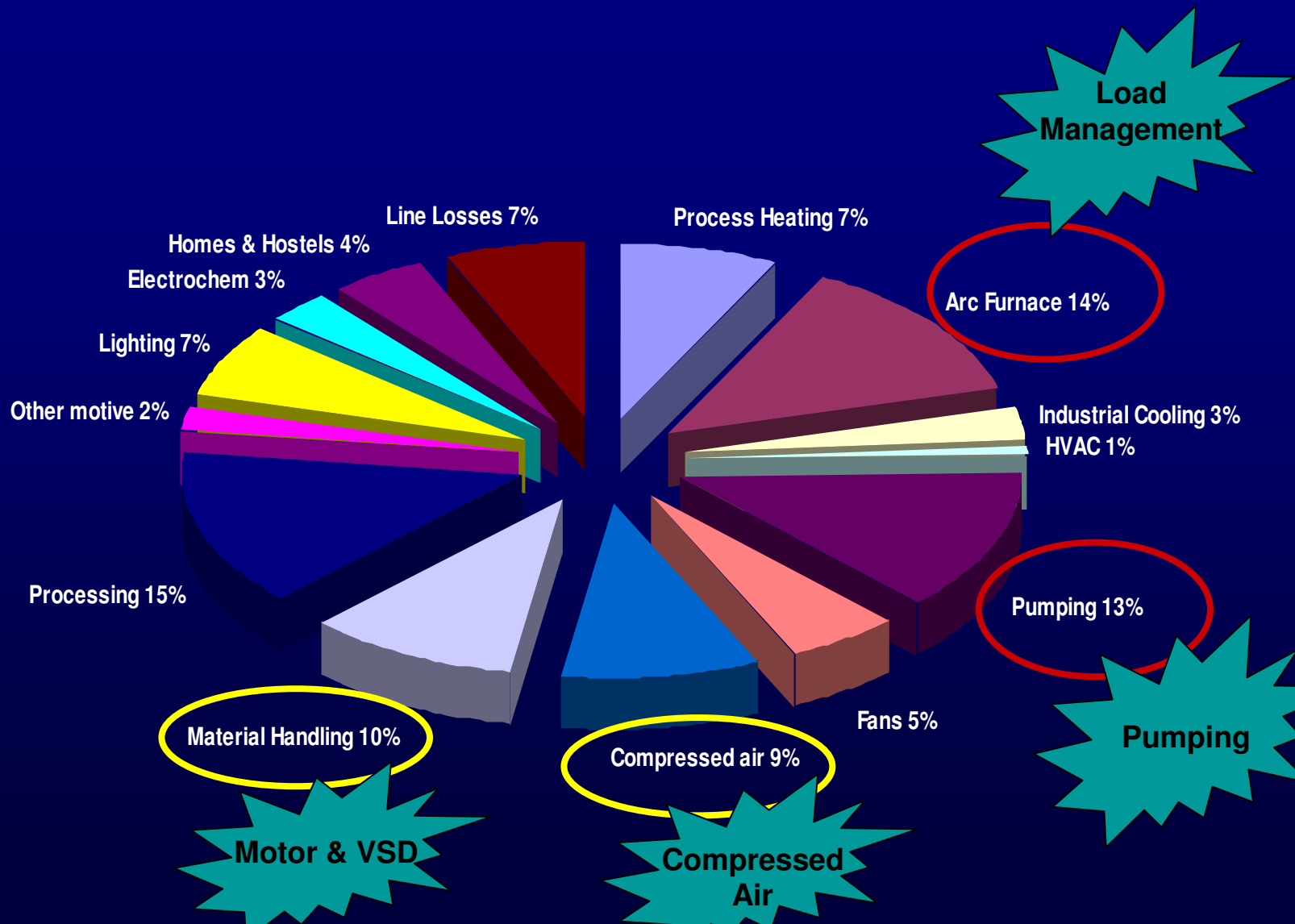
Load Management/ load Clipping



Examples: pumping, ice storage, hot water systems, TOU

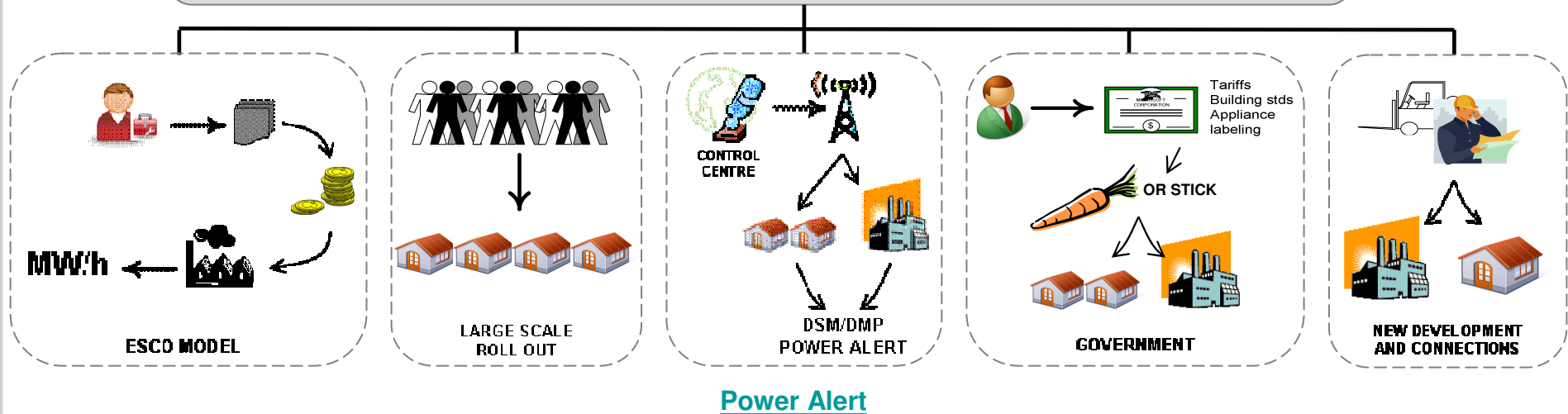
Industrial DSM Possibilities

Industry Mining and Agriculture



DSM Focus Areas

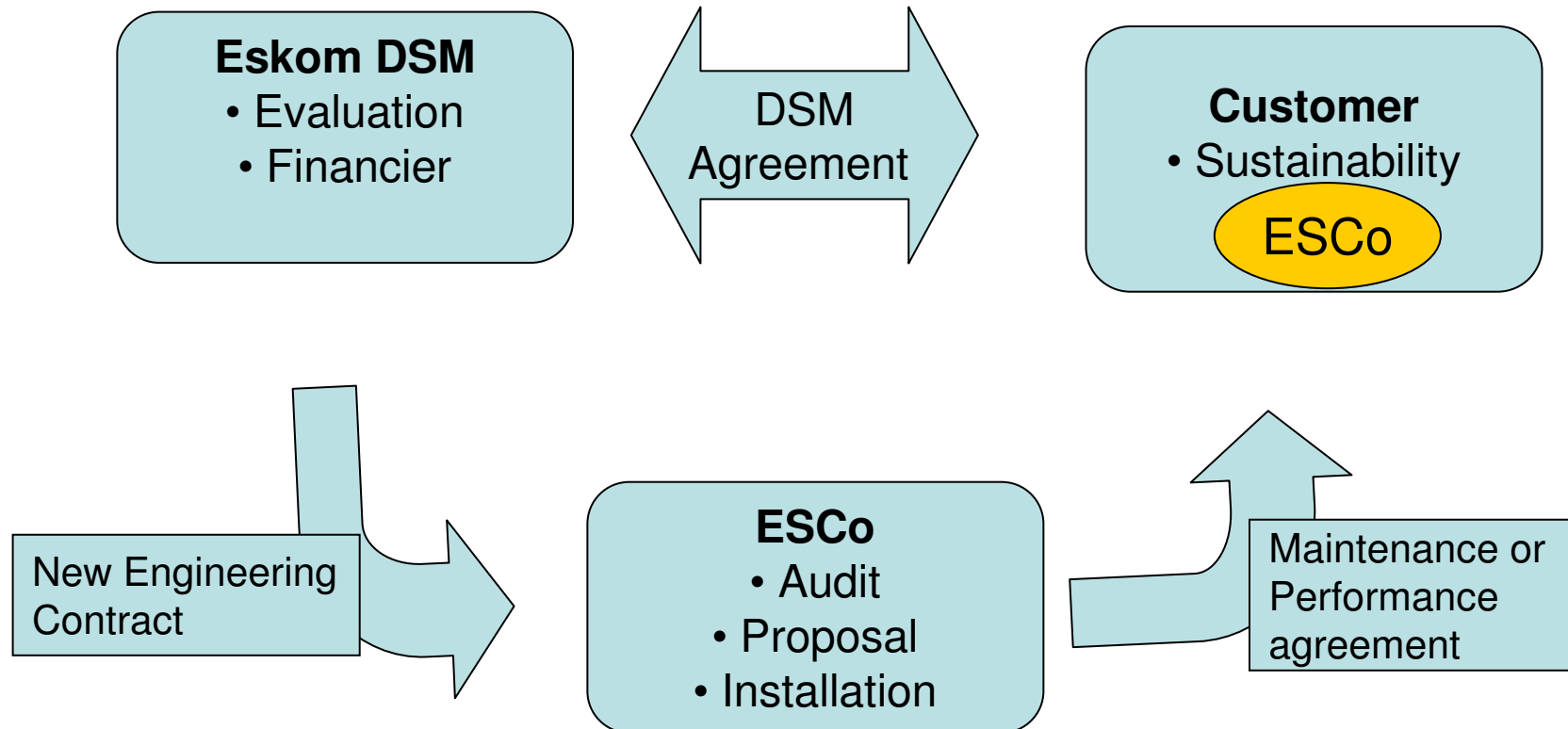
Comprehensive National Demand Management Programme



ESSENTIAL SUPPORT FUNCTIONS TO ALL OF THE ABOVE

	Awareness, Communication and Marketing
	Training and Education
	Monitoring and Verification
	Research and Development

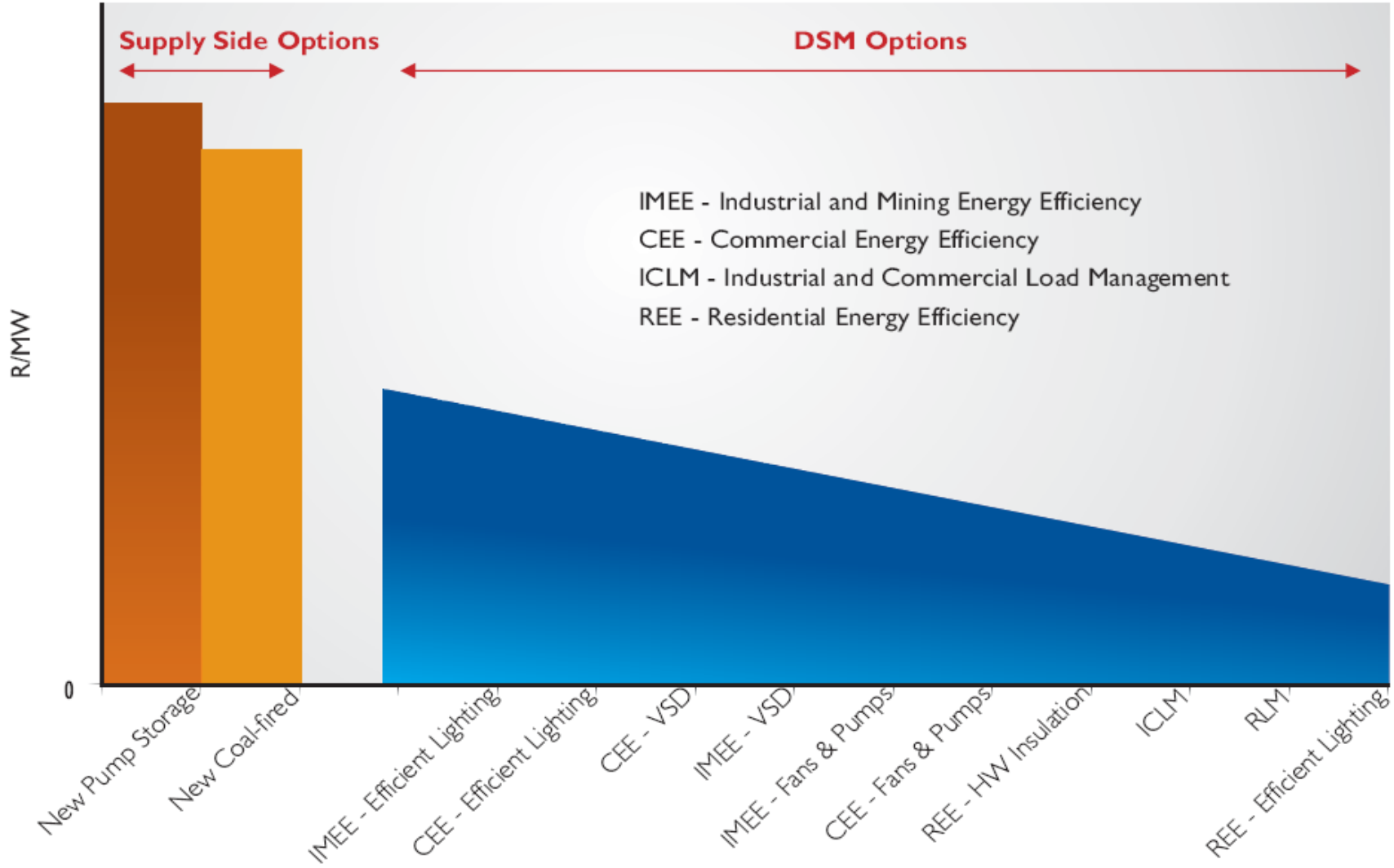
DSM Implementation Model



DSM Funding Mechanism

	Funding		Asset Ownership	Shared Savings
	Eskom DSM	Customer		
LM	100%	0%	Customer	100% to the customer
EE _{50%UF}	50%	50%	Customer	100% to the customer
EE _{50%L}	100%	0%	Customer	50% of CAPEX to Eskom DSM over contract period

DSM vs Supply Side



EEDSM Pillars

- **Economic**
 - Lower cost than generation plant
 - Lower lead time to implementation
 - Financial savings
 - Better utilisation of national resources
- **Environmental**
 - Lower environmental impact (coal, water)
 - Low GHG emissions
- **Social**
 - Job creation
- **Sustainable**
 - Change consumer behaviour

Large Scale Industrial Rollouts

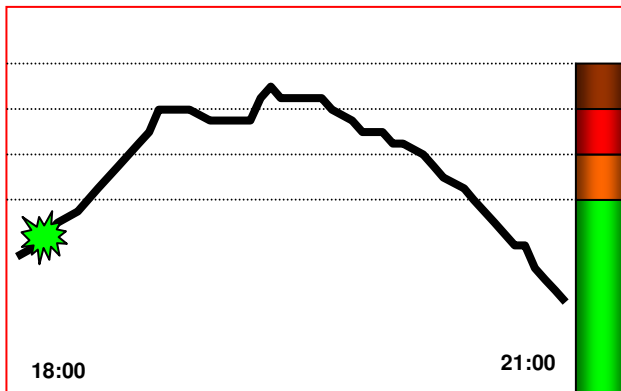
- Energy efficient motor program



Thank you?

Comments and Questions?

Power Alert Colours and Status



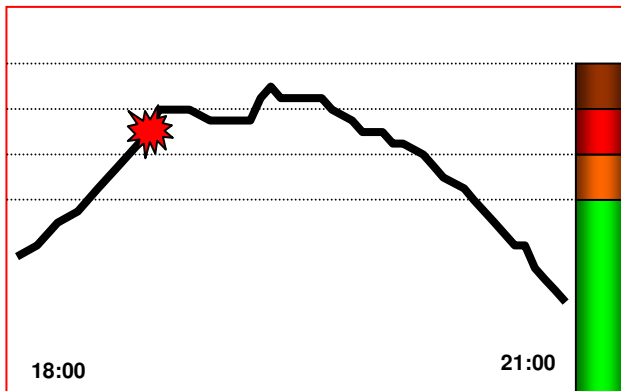
Adequate Power Supply

No Action Required

Please Conserve Electricity

For more information visit:
www.PowerAlert.co.za

Power Alert Colours and Status



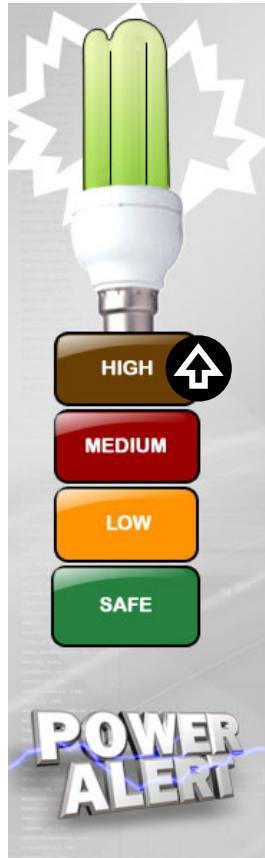
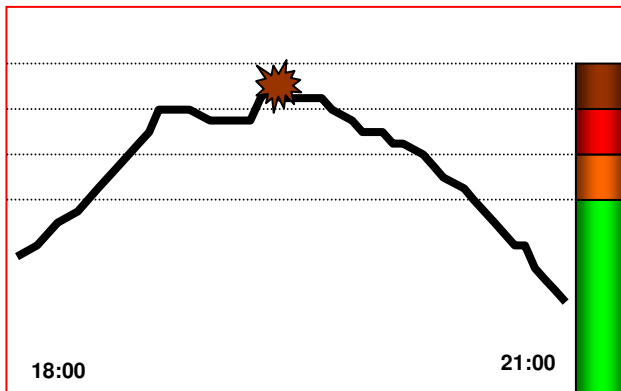
Power Supply Under Pressure

Please switch off:

- Electric heating
- Electric cooking
- Dishwasher
- Tumble dryer
- Washing machine
- Pool pump
- Unnecessary lights

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Power Alert Colours and Status



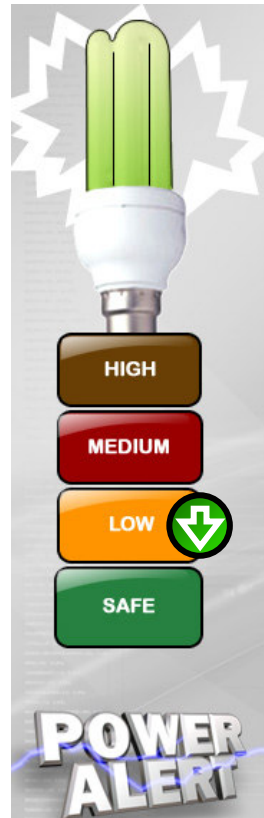
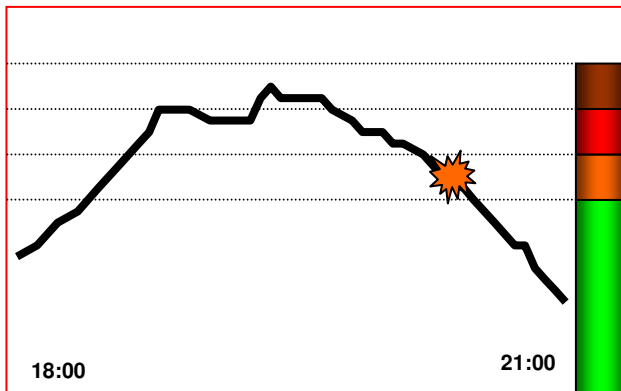
Power Interruptions Looming

Please switch off:

- Electric heating
- Electric cooking
- Dishwasher
- Tumble dryer
- Washing machine
- Pool pump
- Unnecessary lights
- Geyser
- Unused appliances

You may be able to avoid Power Interruptions!
For more information visit:
www.PowerAlert.co.za

Power Alert Colours and Status



Thank you

Power Interruption Avoided

You may switch on:

- Geyser
- Air conditioner
- Electric heating
- Kitchen appliances

Thank you for your cooperation!

For more information visit:

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