

# Eskom

## Demand Side Management

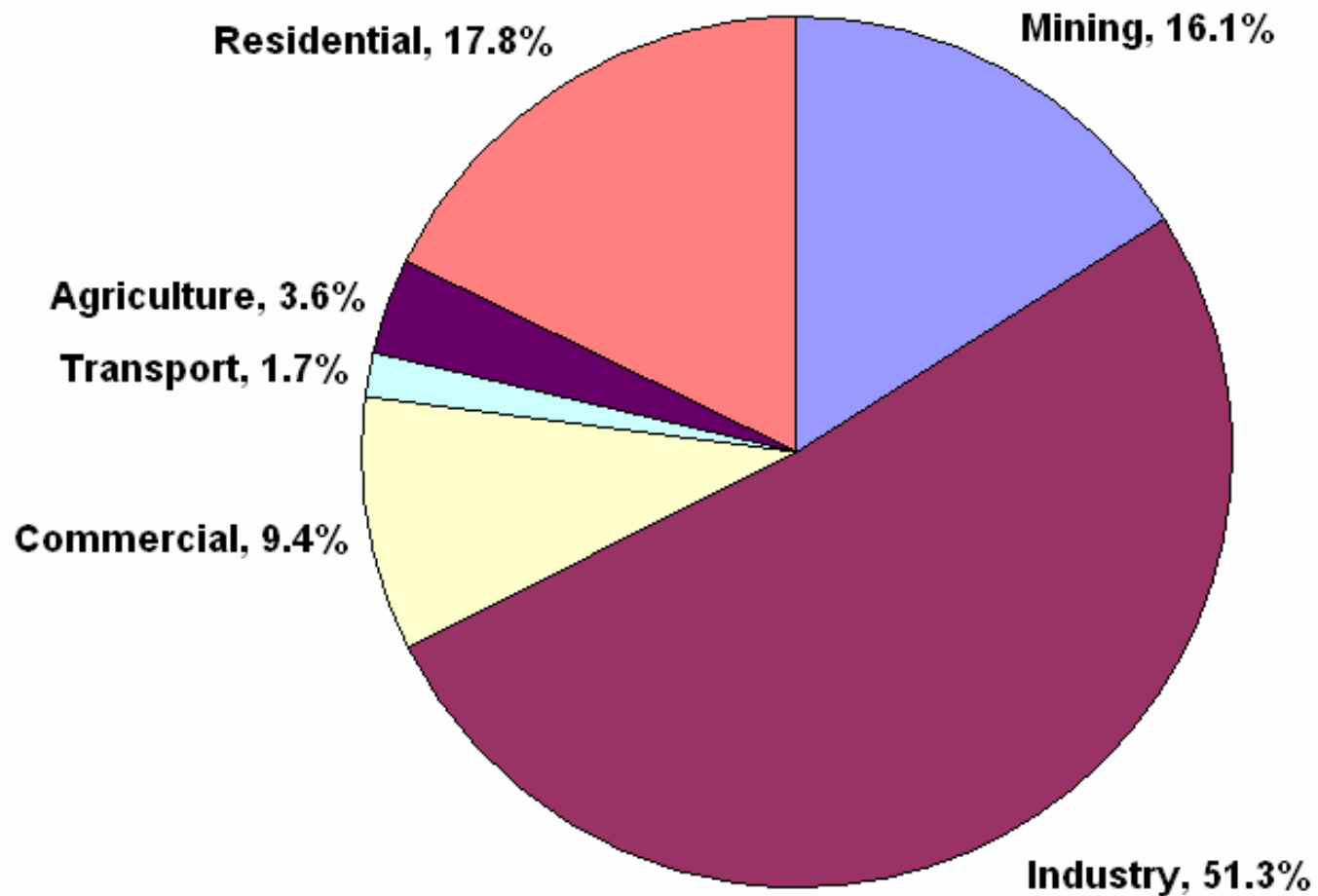
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# Introduction

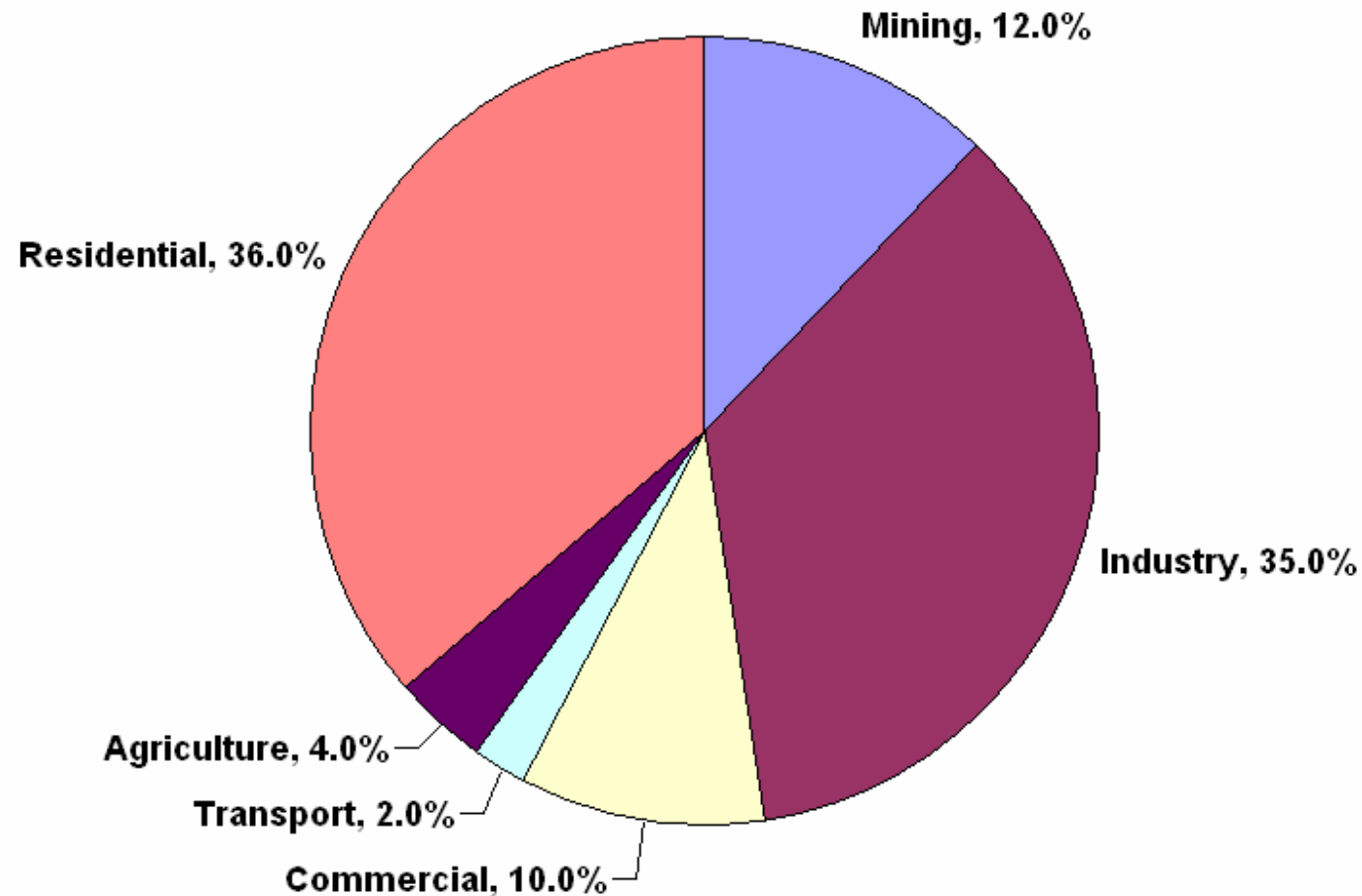
- Electricity consumption profiles
- What is DSM
- Introduce industrial DSM
- Large scale rollouts for industry
  - EE motor program

# Electric Energy Consumption



196 567GWh (2006)

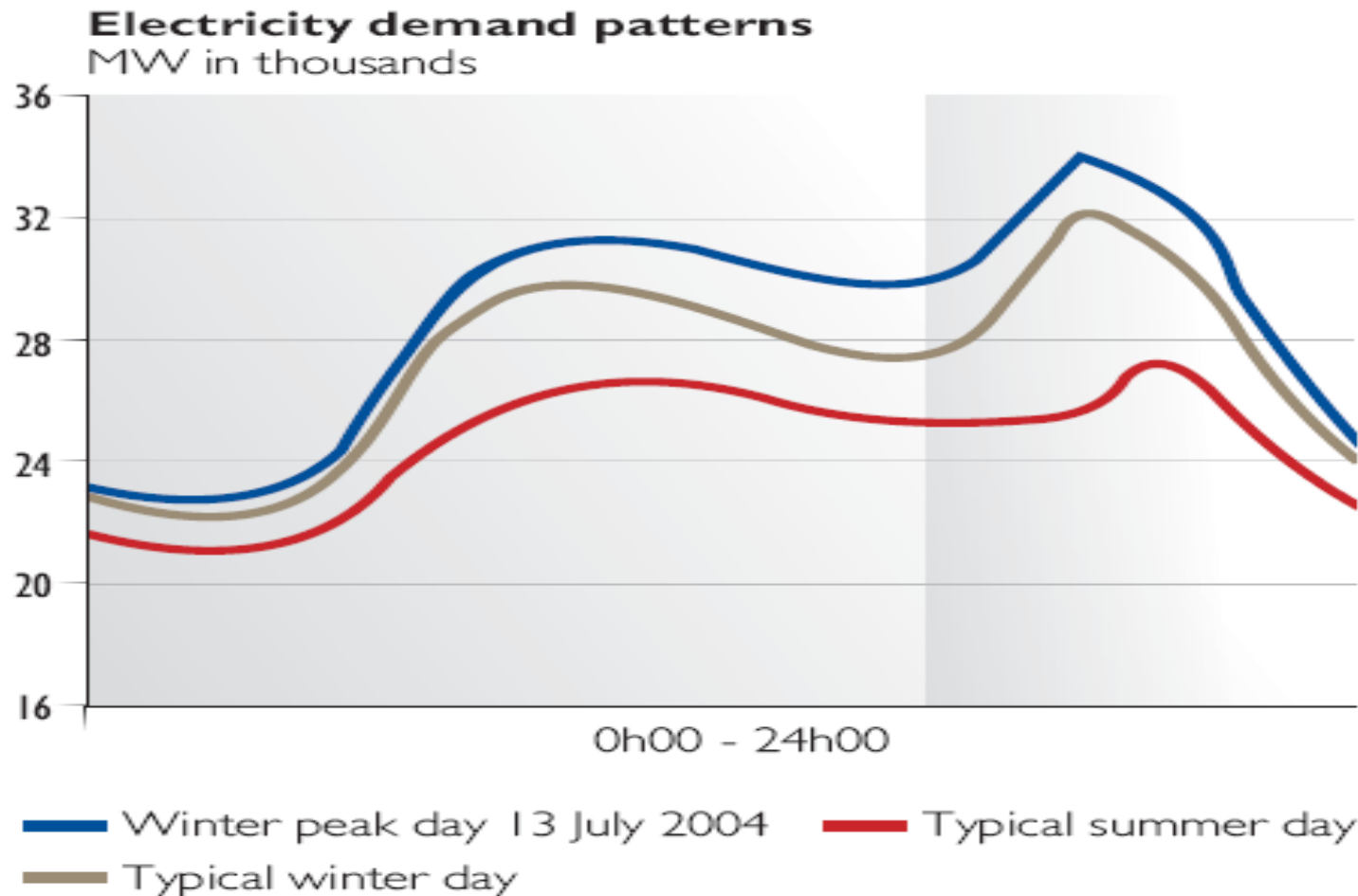
# Maximum Demand Contribution



# What is DSM

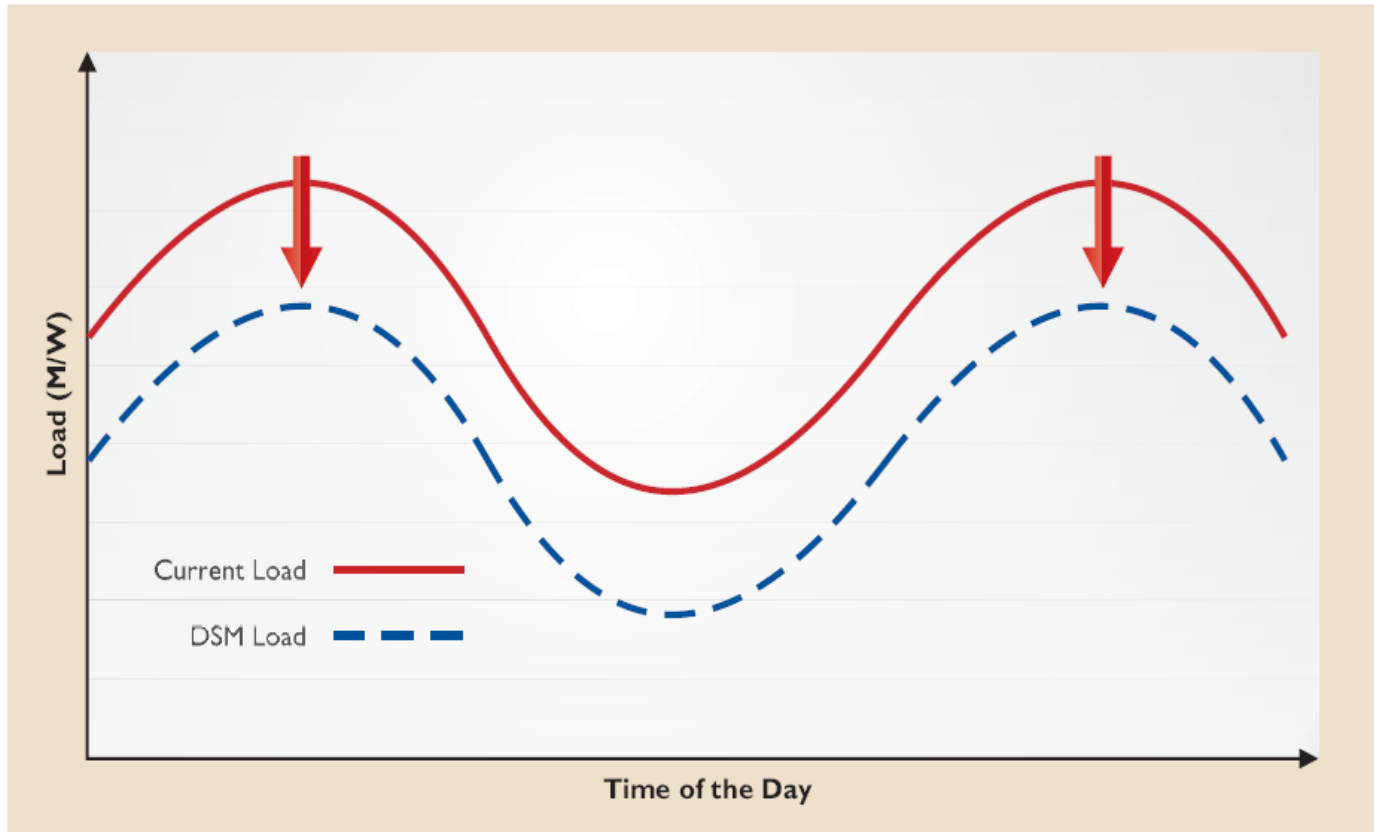
- Create predictable changes in customer demand and load profile
- Alternatives to the provision of additional generation plant.
- Includes load management, peak clipping and energy efficiency

# Typical Daily Profile



# Demand-side Options

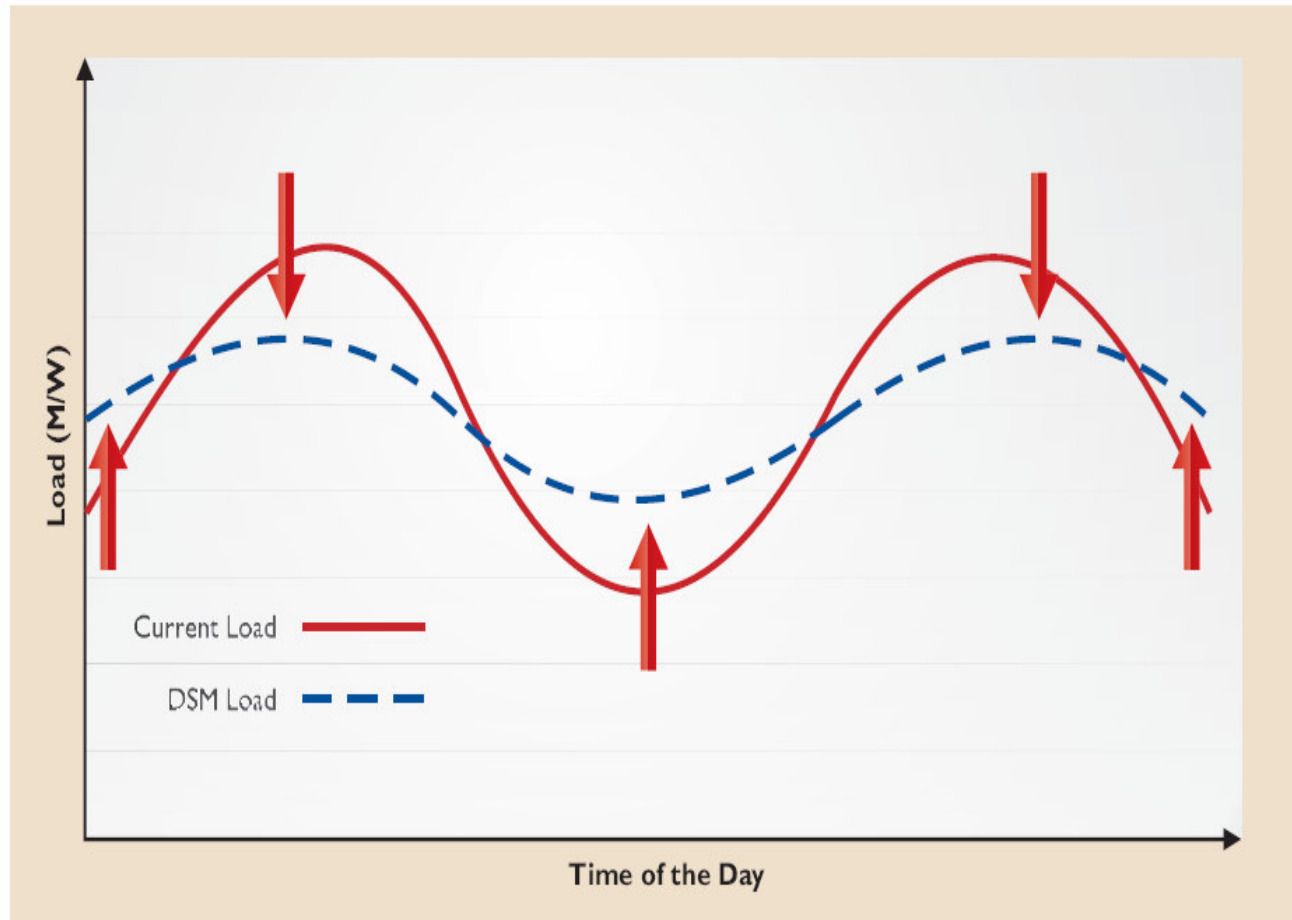
Energy Efficiency



Examples: efficient lighting, VSD, Solar hot water systems

# Demand-side Options

Load Management/ load Clipping

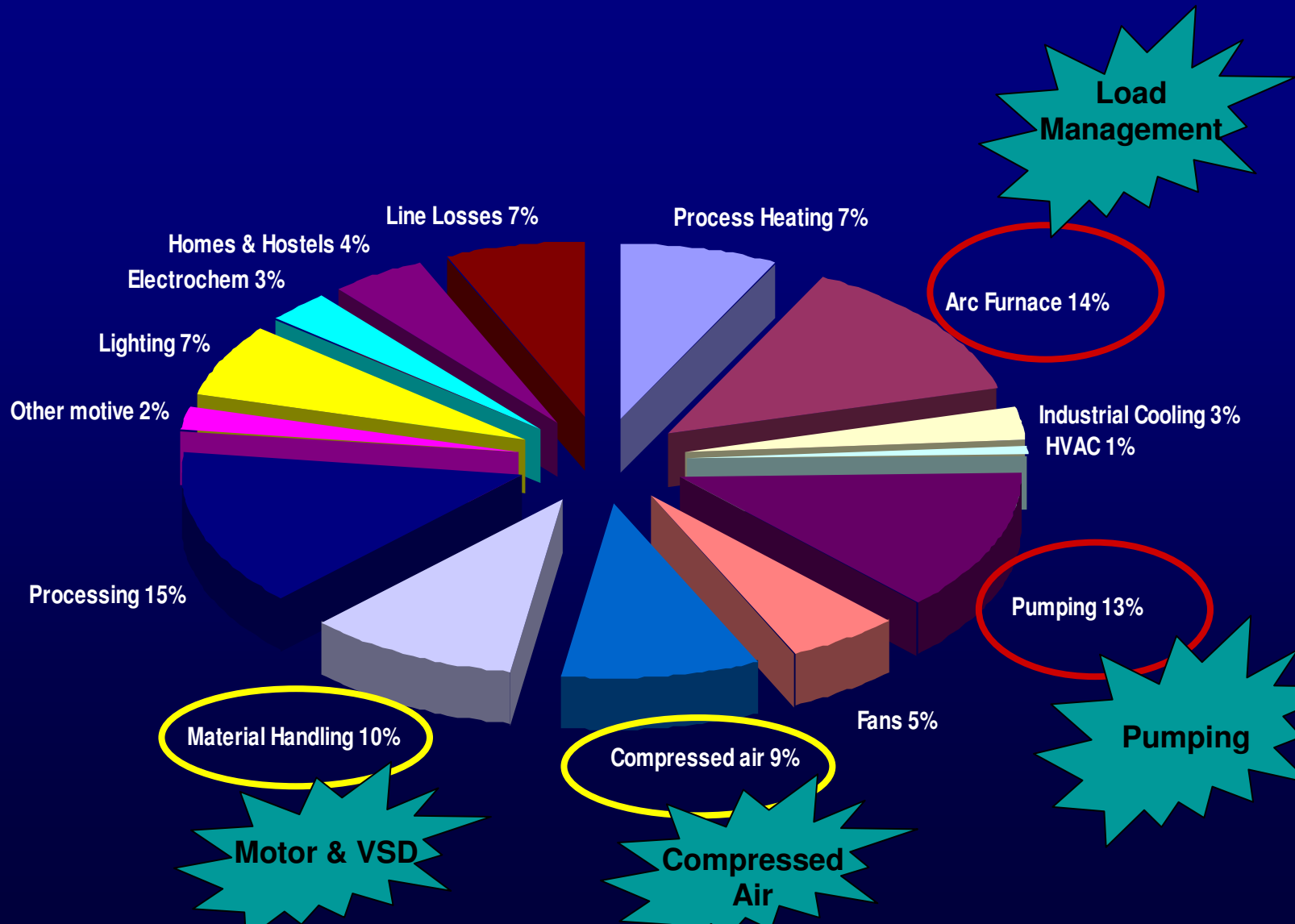


Examples: pumping, ice storage, hot water systems, TOU



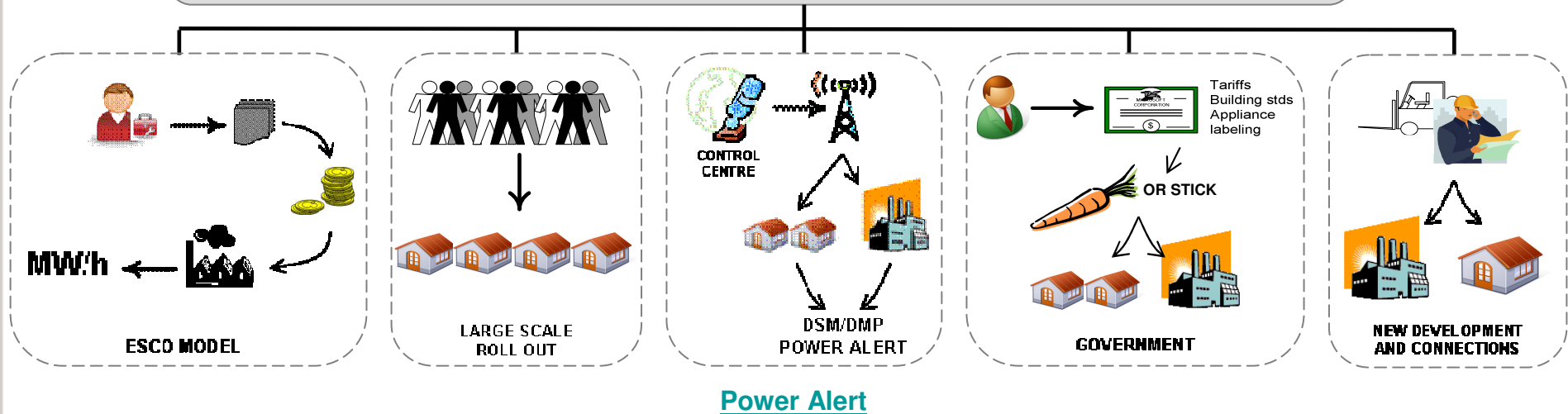
# Industrial DSM Possibilities

Industry Mining and Agriculture



# DSM Focus Areas

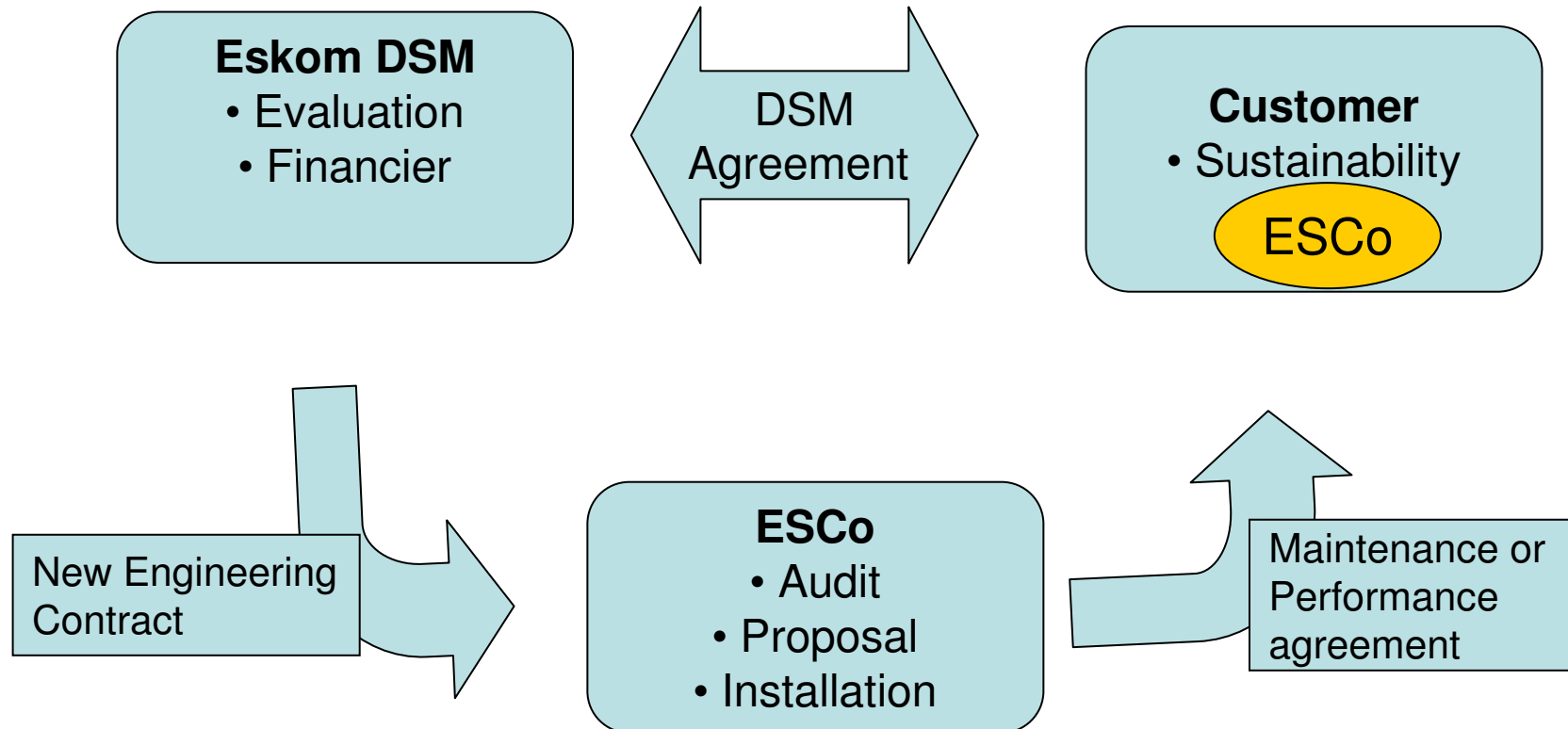
## Comprehensive National Demand Management Programme



### ESSENTIAL SUPPORT FUNCTIONS TO ALL OF THE ABOVE

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

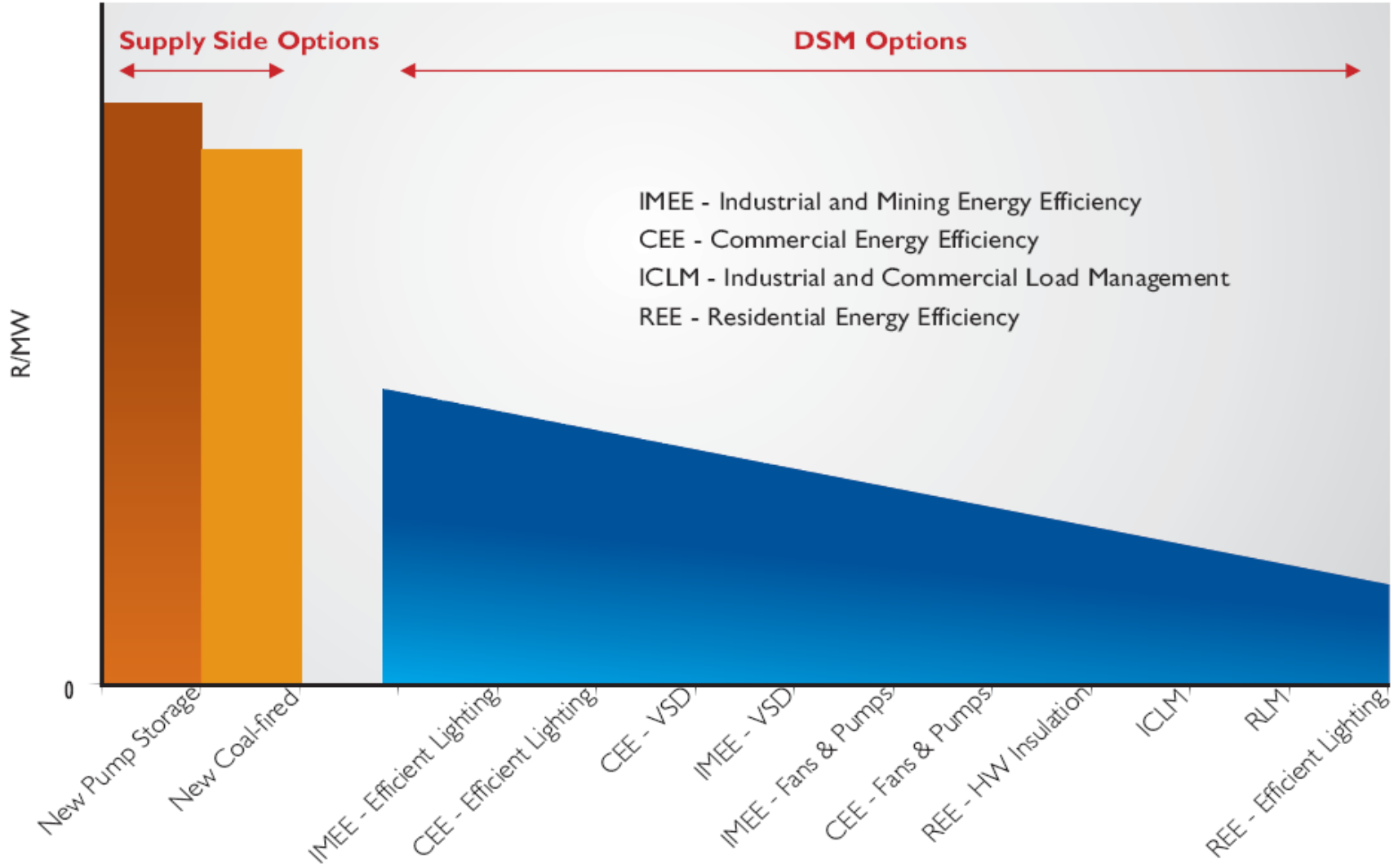
# DSM Implementation Model



# DSM Funding Mechanism

	Funding		Asset Ownership	Shared Savings
	Eskom DSM	Customer		
LM	100%	0%	Customer	100% to the customer
EE <sub>50%UF</sub>	50%	50%	Customer	100% to the customer
EE <sub>50%L</sub>	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

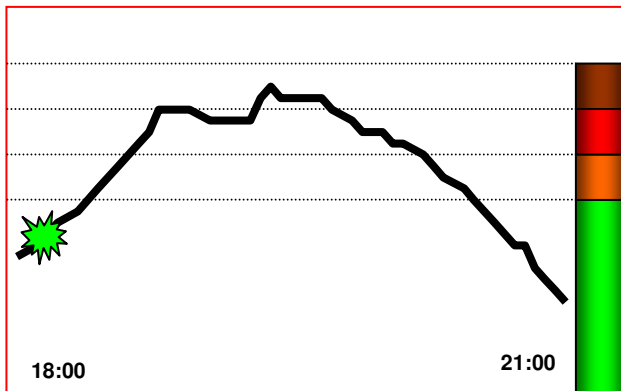


Thank you?

Comments and Questions?



# Power Alert Colours and Status



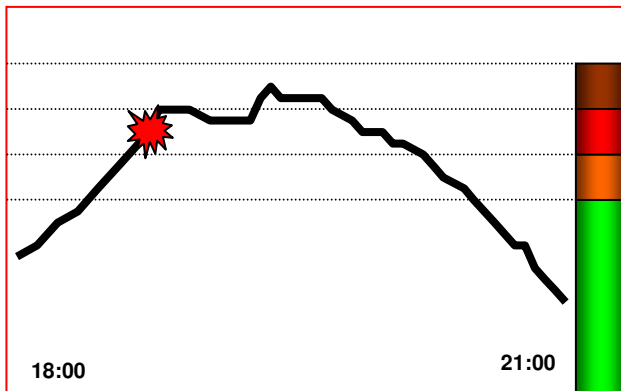
**Adequate Power Supply**

**No Action Required**

**Please Conserve Electricity**

For more information visit:  
[www.PowerAlert.co.za](http://www.PowerAlert.co.za)

# Power Alert Colours and Status



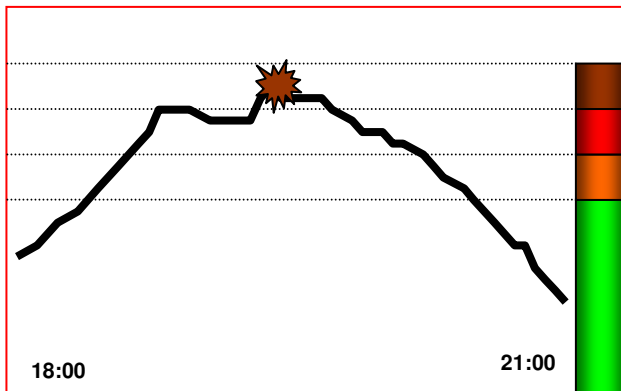
## Power Supply Under Pressure

### Please switch off:

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

For more information visit:  
[www.PowerAlert.co.za](http://www.PowerAlert.co.za)

# Power Alert Colours and Status



**Power Interruptions Looming**

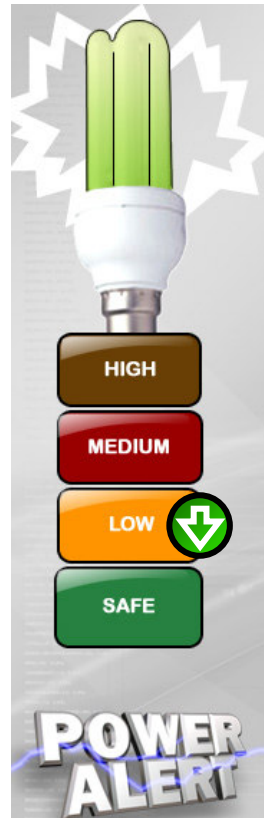
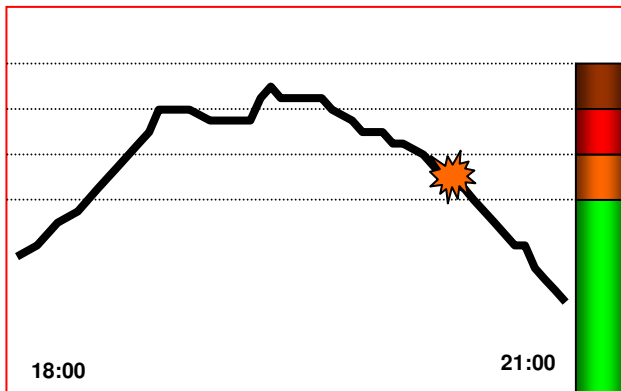
**Please switch off:**

- 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](http://www.PowerAlert.co.za)

**POWER ALERT**

# 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:

[www.PowerAlert.co.za](http://www.PowerAlert.co.za)

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