



CapeNature

Energy & Electricity

DATE: XXX

VENUE: XXX

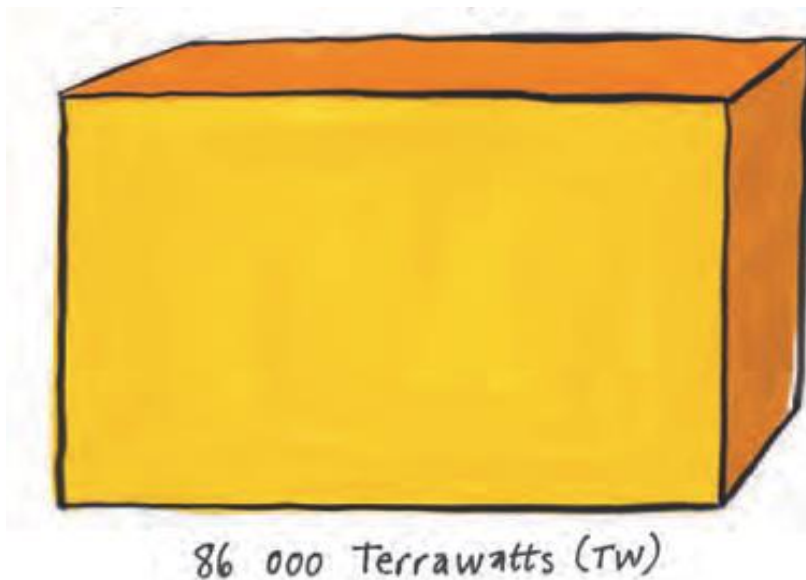
XXX

Job Title: XXX

There are different sources of energy

- SUN
- WIND
- WATER

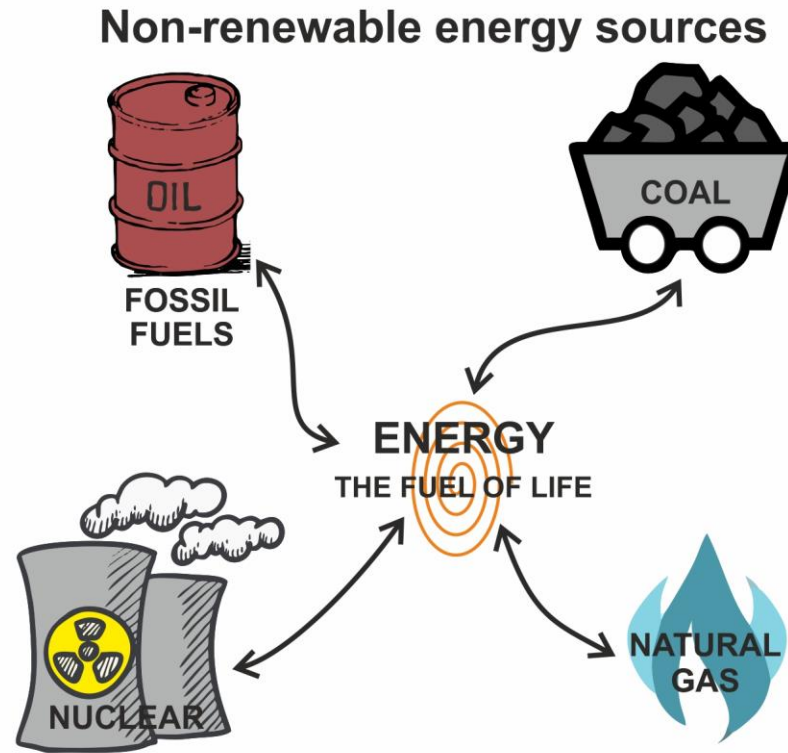
Energy is measured in Watts



Energy can be renewable or non-renewable

NON - RENEWABLE

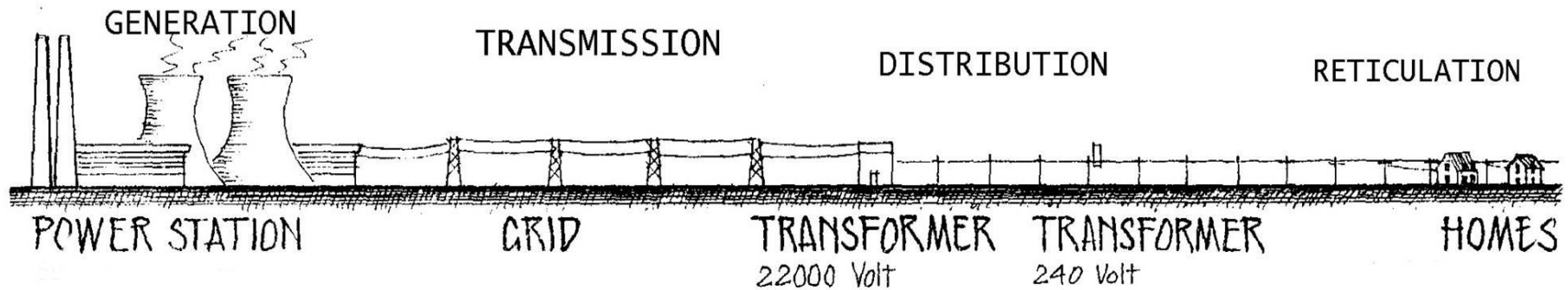
- From the remains of dead sea animals. 10% of oil used today is 541 – 252 million years old!
- Uses a rare type of uranium – non renewable



Supported by:  Landsvirkjun

- Comes from the remains of prehistoric vegetation – energy that plants absorbed from sun MILLIONS of years ago
- Formed from the remains of tiny sea and plant animals that dies 300-400 MILLION years ago

- Most of South Africa's electricity comes from coal and is generated in Mpumalanga.
- It is expensive as it takes a lot of infrastructure, including transmission through power lines

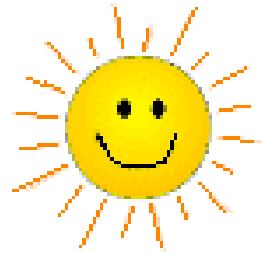


IS THERE NOT A BETTER WAY?

Energy can be renewable or non-renewable

RENEWABLE

Solar Power



- The average household uses 600kW sun each day but only uses 774 kWh a month!



Wind



Biofuel



- Windfarms produce clean electricity and don't deplete natural resources

- These fuels can be made from sunflowers, wheat, potato etc.

Hydro power



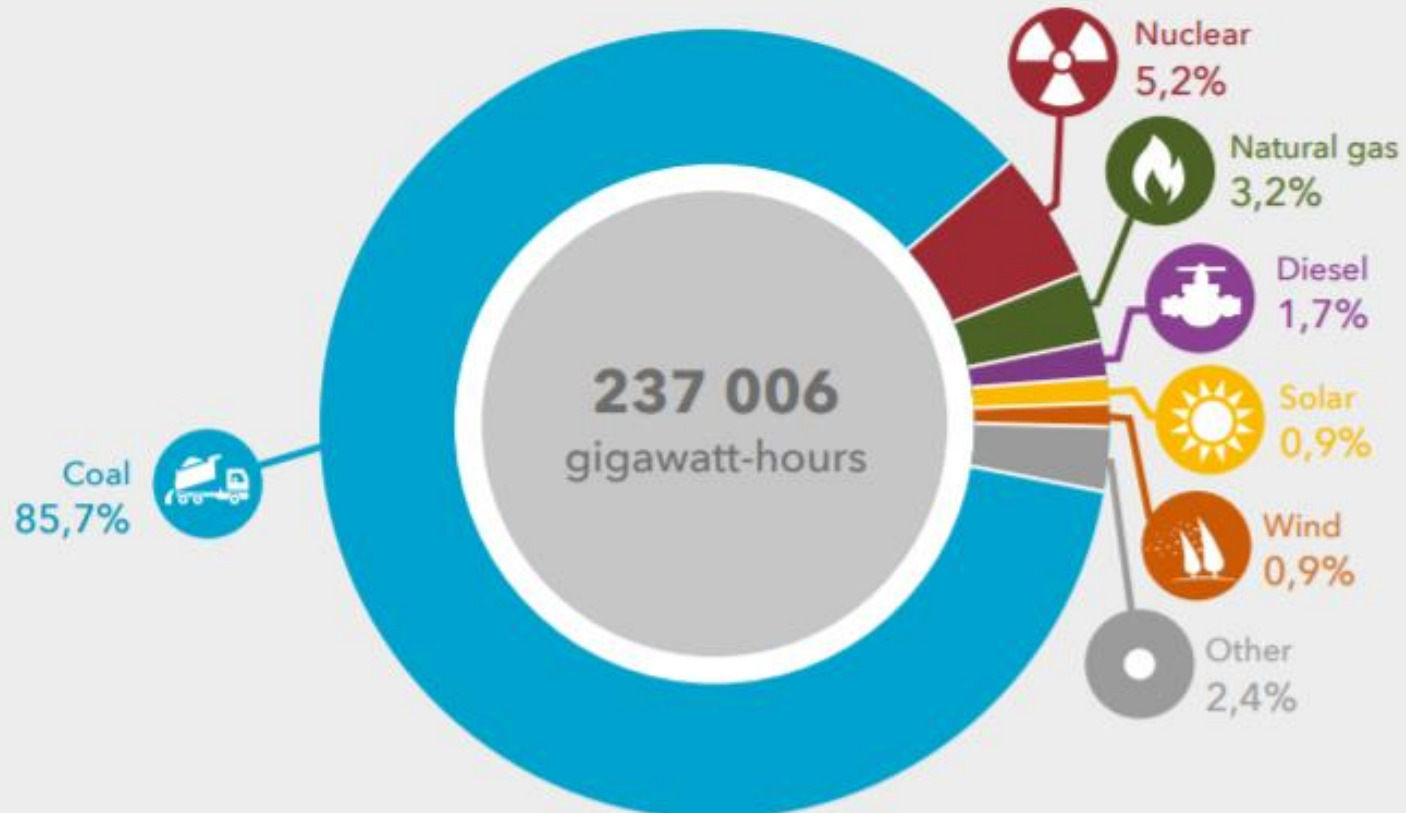
- Produced by energy from water falling through turbines

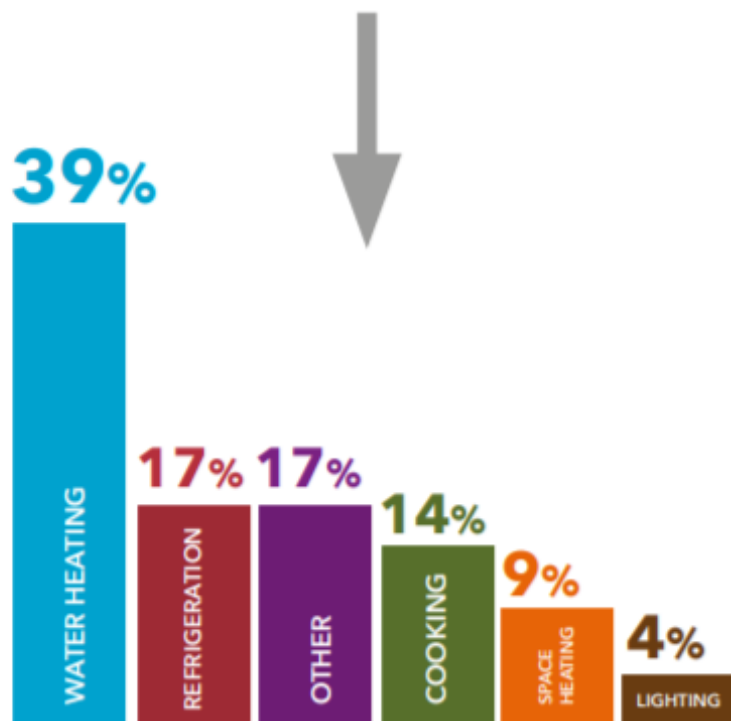


SO...WITH ALL THIS ALTERNATIVE ENERGY OUT THERE...WHY ARE WE NOT MAKING BETTER CHOICES?

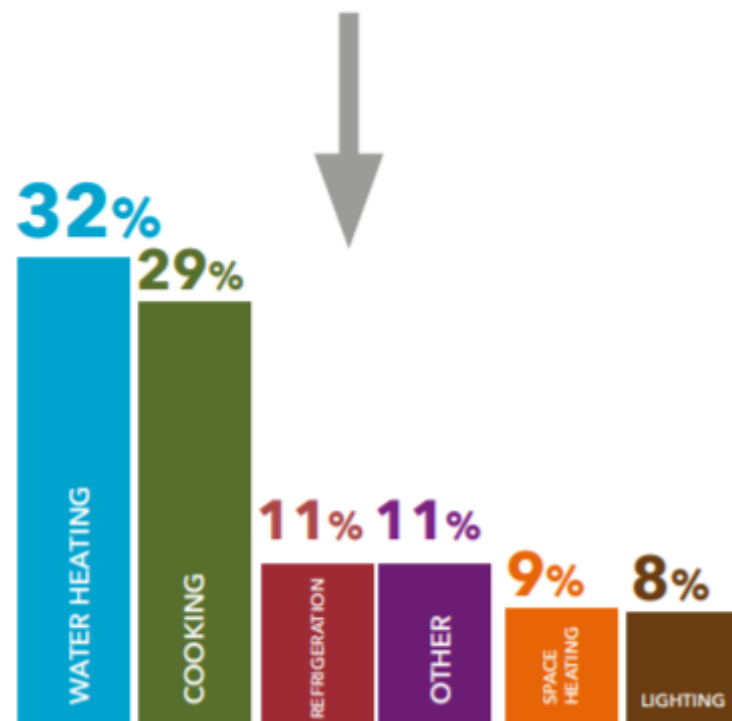
Coal remains South Africa's dominant source of energy

Total electricity generated by source, 2016





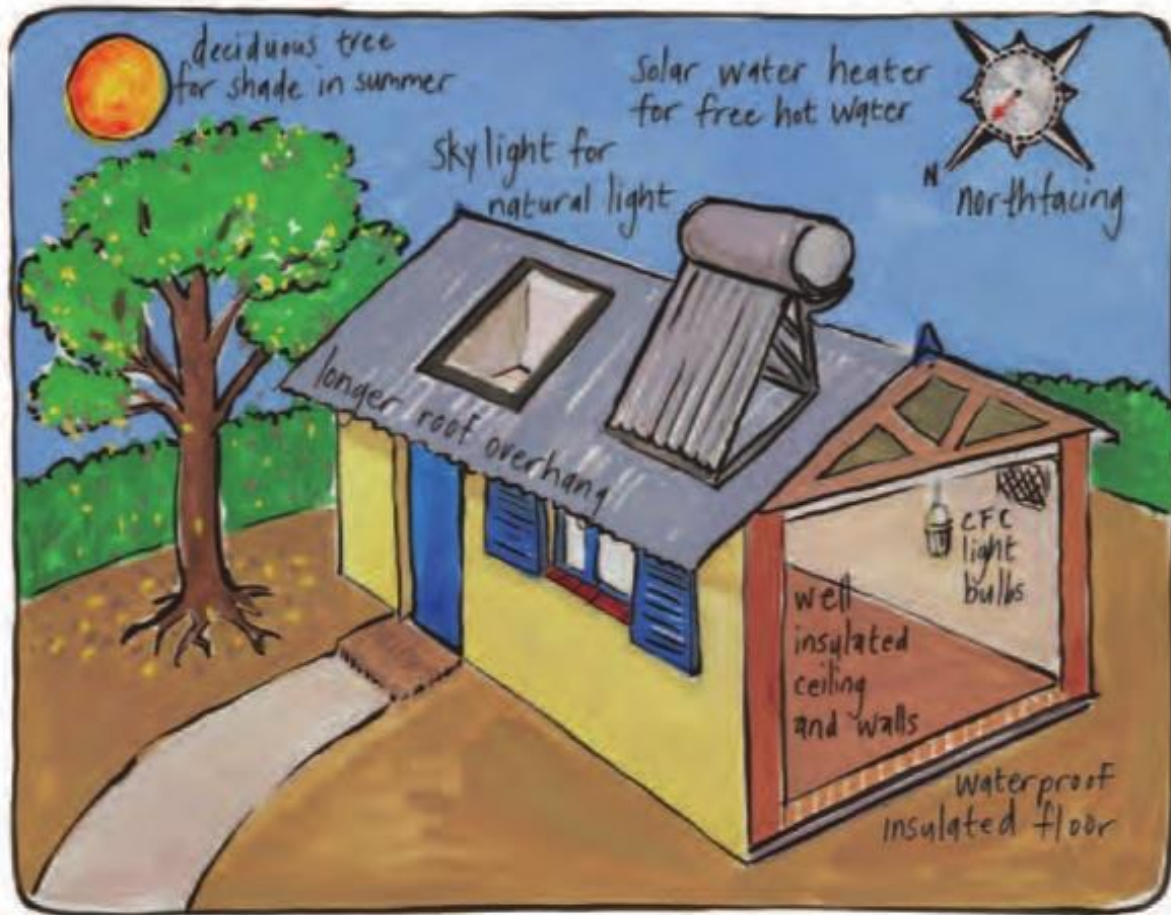
MID-HIGH INCOME
HOUSEHOLD ENERGY CONSUMPTION



LOW INCOME
HOUSEHOLD ENERGY CONSUMPTION

- Water heating
- Refrigeration
- Other
- Cooking
- Space heating
- Lighting

Making our homes more energy efficient



Buying and using alternative energy and more energy efficient equipment



VS



VS



Incandescent

**Compact
Fluorescent**

LED



Changing wasteful behavior into energy saving behavior



Turn

Turn down your geyser temperature to 60°C. This will save you up to 5% on your electricity bill.



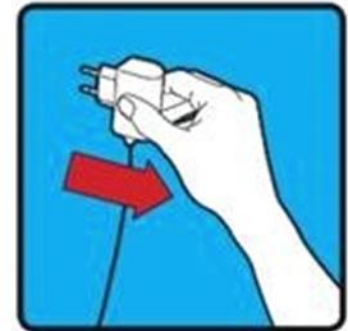
Flip

Rather take a shower. You'll save up to 80% in water and use 5 times less electricity than heating a bath of water.



Fit

Install an energy-saving showerhead. It's designed to use up to 40% less hot water and will save you money on your electricity bill.



Pull

Switch off appliances at the wall and pull out chargers. Leaving them in standby mode could cost you up to 6% more electricity.

WHAT ELSE?

THANK YOU.

* Images and credit to
the City of Cape Town –
Smart Living Handbook