

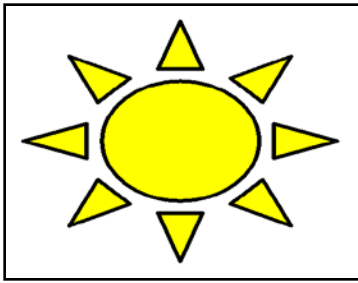
Energy



RENEWABLE & SUSTAINABLE
ENERGY STUDIES

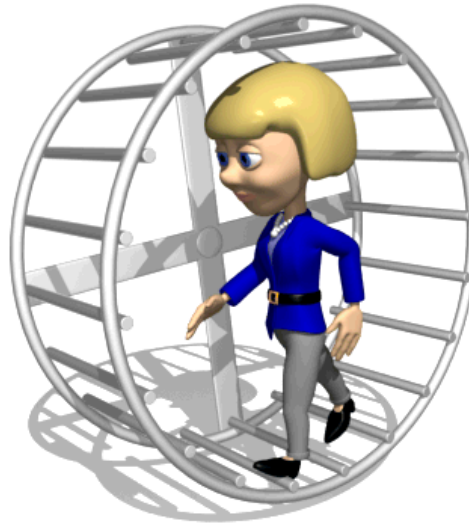


Energy



Energy?

Can not be created
or destroyed
can only be
transformed



Energy

Renewable Sources

Sun

Water

Wind

Geothermal

Biomass

- Endless supplies
- Limited damage to the environment



Sources of Energy = Renewable & Non-Renewable!

Non-Renewable Sources

Oil
Gas = Fossil Fuels
Coal

- **Supplies** will run out
- Burnt & can **not** be **used** again
- Burning fossil fuels releases **greenhouse gasses**



Sources of Energy = Renewable & Non-Renewable!



World's energy

mainly derived from

non-renewable sources such as

oil, coal, gas



World's Energy Sources

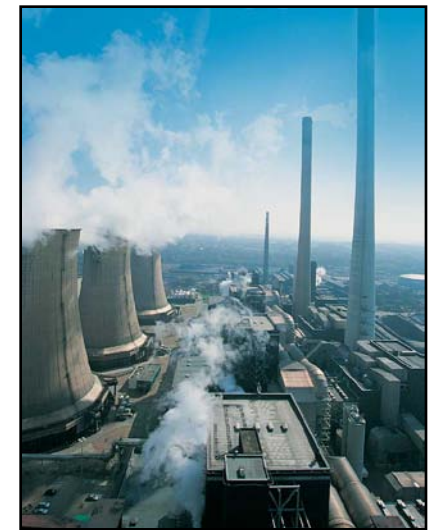
Modern Society

Relies on **energy**

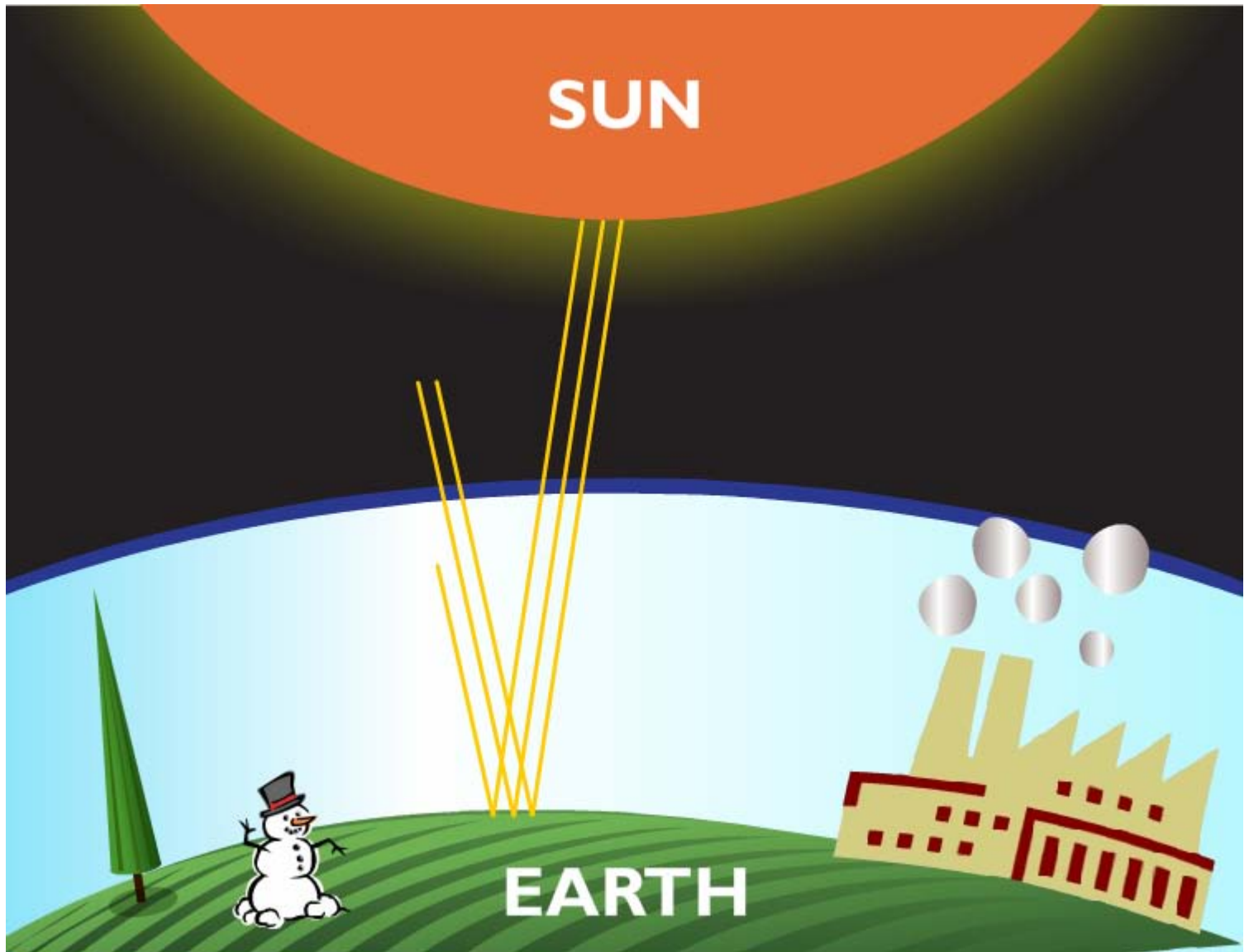


derived mainly from **burning fossil fuels**

Burning fossil fuels releases **CO₂** a **greenhouse gas** which increases the **greenhouse effect**



The Hot Issue?

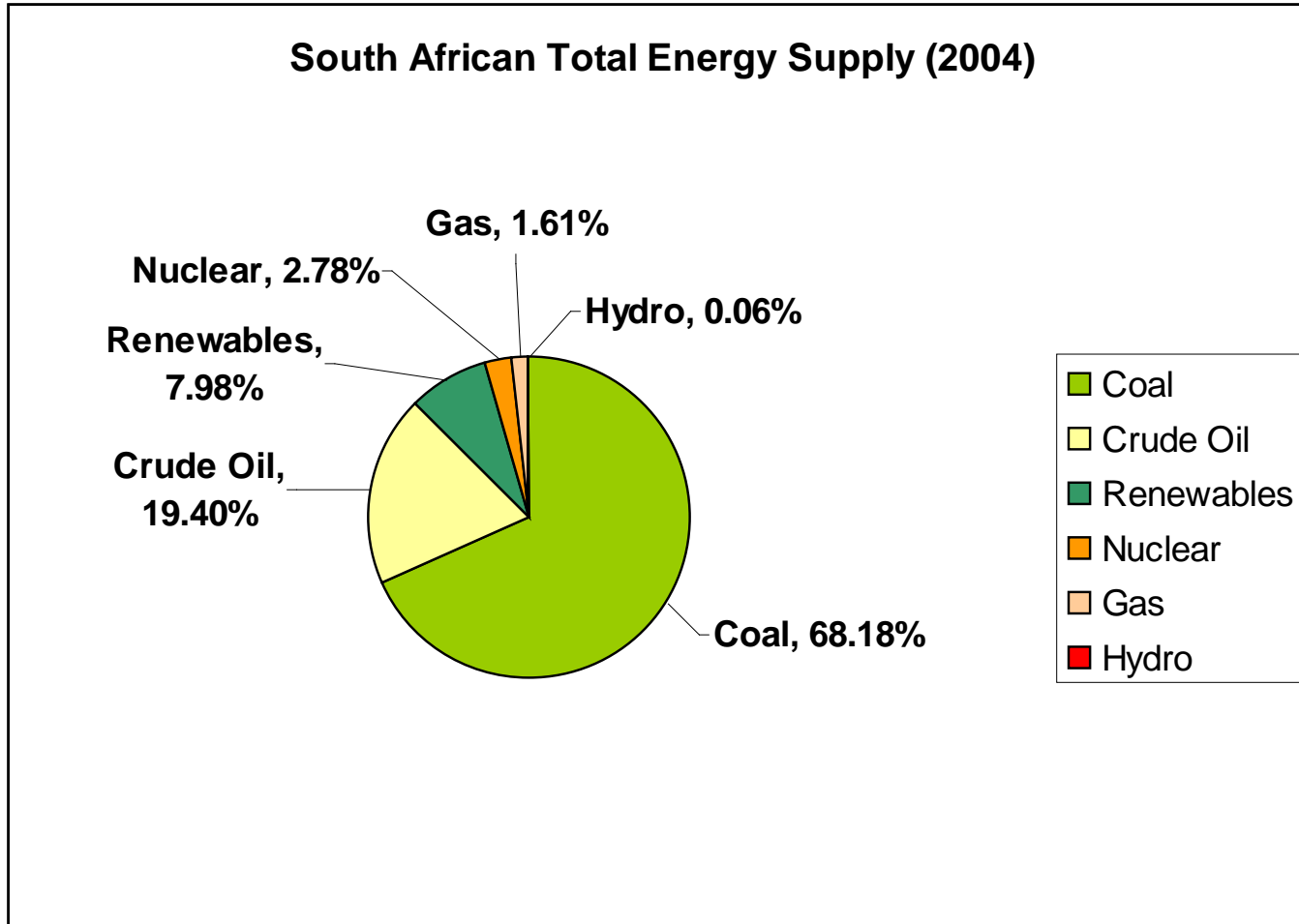


Greenhouse Effect



Enviromental Impact

SA Total Energy supply



Ref. Eskom 2004

SA Energy Supply