

# Energy situation & Energy policies in South Africa

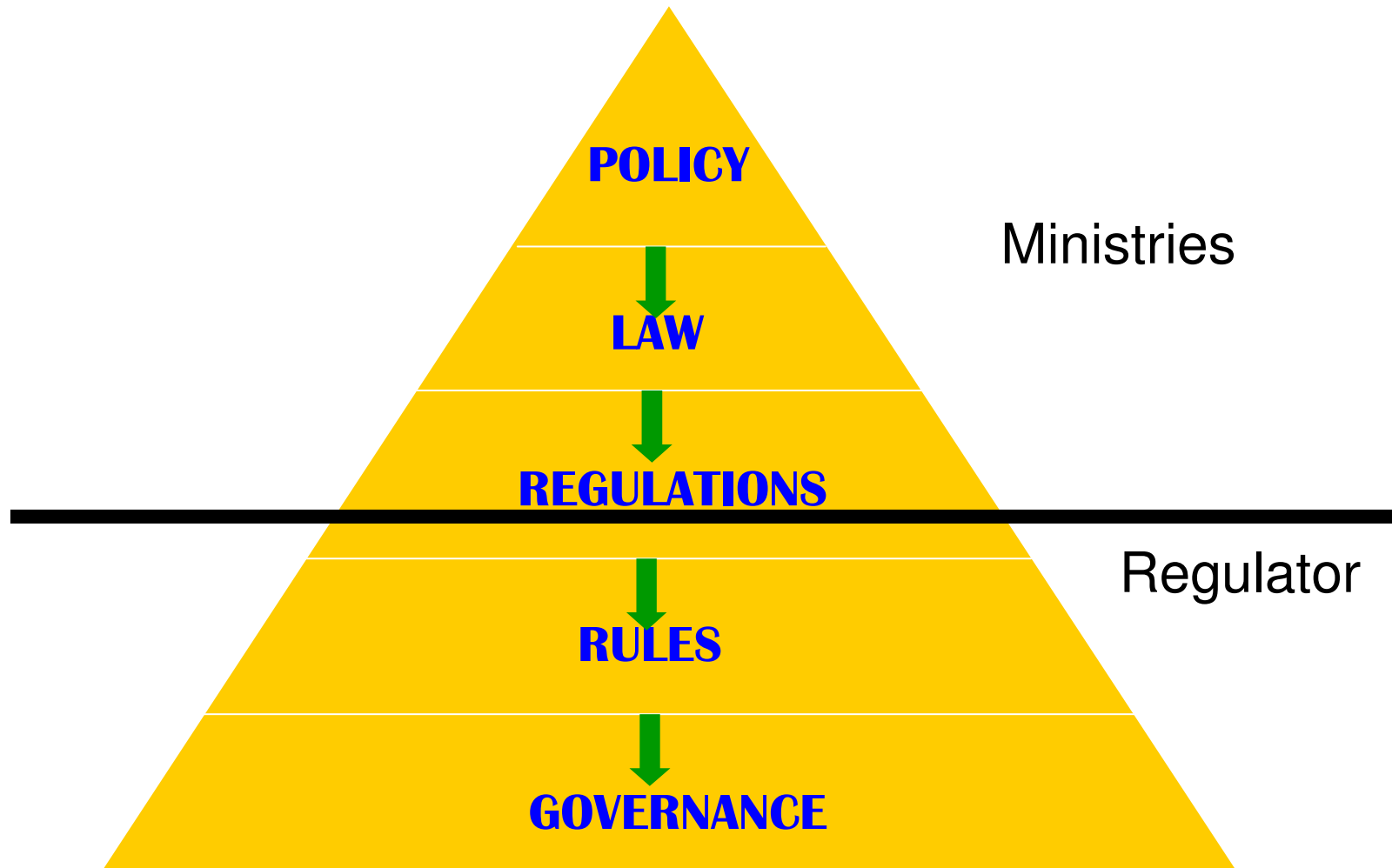


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# Current Energy situation

- 42 000MW installed
  - 95% coal thermal
  - 2% nuclear
  - 1% renewable (hydro and wind (5MW))
  - 2% OCGT (diesel and gas)
- Maximum demand – 36 243MW (June 2009)
- Reserve Margin less than 10% (target 19%)
- 2 Coal fired power station (10 000MW) under construction

# South African legislative structure



# Policies & Legislation

- **Renewable Energy Policy, 2003**
  - 10 000GWh by 2013 (approx 1140MW Installed at 95% load factor)
- **All RE projects anticipated to come from IPP's**
- **Energy Efficiency & Demand Side Management**
  - Legislation limited
- **Electricity Regulation Act, 2006**
  - Non-discriminatory grid access
  - Full cost recovery & reasonable return tariff structures

- REFIT phase 1 - March 2009
  - Wind, CSP (parabolic), Landfill gas & Small scale hydro
- REFIT phase 2 - October 2009
  - Biomass, Biogas, Photo-Voltaic, CPV, CSP(tower)
- Standardised Power Purchase Agreements – November 2009

- Selection criteria – March 2010
  - Network integration and stabilisation
  - Financing and commissioning
- Current Grid capability
  - 5600MW uptake
  - Connection funded by IPP allowed
- 10 Licence applications
  - Wind (800MW), Landfill gas (10MW), Biomass (28MW)

- Preferred technologies and capacity
  - Wind 3000MW up to 4000MW
  - Solar 200MW
  - Landfill gas 50MW
  - Small scale Hydro 75MW
  - Biomass 60MW
- Least cost build up & affordability

# Future developments

- Development of less than 1 MW framework
- Piloting net-metering
- Co-generation FIT (COFIT)
- Streamlining regulatory processes



# Thank you

World Future Council - Addis Ababa  
- 10 October 2009