

Department of Energy

Liquid Fuels
Data Collection

Ms Nombulelo Mahlangu



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA

Liquid Fuels in South Africa (SA)

- ❑ SA has very limited oil reserves
- ❑ Almost 95% crude oil requirements are met by imports from Middle East and Africa
- ❑ Refined products are produced by the following methods:
 - Crude oil refining: oil refineries
 - Coal to liquid fuels and gas to liquid fuels: Sasol
 - Natural gas to liquid fuels: PetroSA



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



Demand

Because of the economic slowdown;

- ❑ In the 3rd Qtr of 2008 as compared to the same period in 2007, **petrol & diesel demand** dropped by more than 10% and 3% respectively.
 - The drop served a barrier which has battled a capacity shortage in recent years especially when refineries were forced to shut down unexpectedly.
- ❑ But from 2009 the demand of refined fuels already exceed SA's refining capacity and is set to increase further. It is estimated that by 2015 SA will have to import 150 000 barrels per day
- ❑ Marginal increase Petrol & Diesel demand less than 2%

Forecast growth

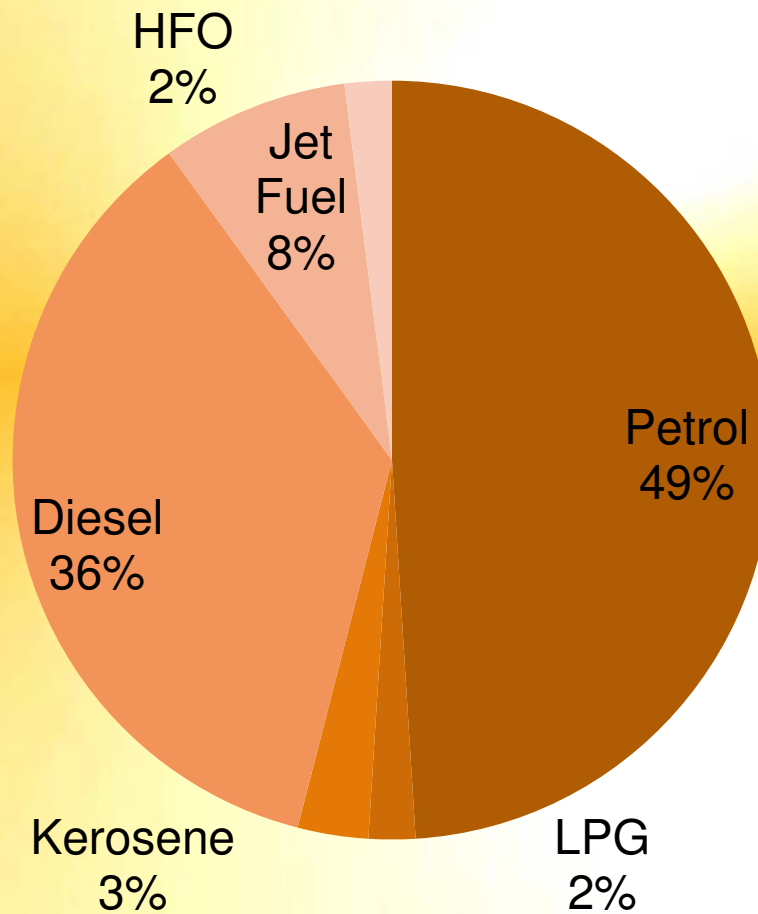
- 2009 - 2020: Increase – 6% & 3% diesel & petrol respectively



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA

Domestic Supply of Liquid Fuels - 2007



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA

Supply

- ❑ To address the growing demand [2009 - 2020: Increase demand], the government has introduced the Energy Security Master Plan:
 - ✓ PetroSA to provide strategic leadership to achieve security of supply
 - **Project Mthombo is the keystone in delivering this plan**
 - **A PetroSA initiative to build a world-class crude refinery in the Coega Industry Development Zone in the Eastern Cape that aim to provide the lowest-cost refined products sufficient to cater for country's needs till 2030.**
 - ✓ **The safe Illuminating Paraffin Stove Pilot Project was launched in October 2009.**
 - The project aims to promote the use of safer illuminating paraffin appliances while addressing problems associated with harmful incidents caused by the use of illuminating paraffin in low-income households.



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



Data Collection & Challenges

- The Department Energy has data sharing agreements with providers and the data is collected by means of email request, follow-ups telecommunication and or by meeting with the provider
 - The data is collected annually in the beginning of the calendar year
 - For liquid fuels, after receiving the data and before crafted into the Energy Balances, data analysis is made by comparing the current with previous data supplied.
- Challenges
 - Receiving the data behind schedule
 - Data discrepancies
 - Secondary collector
 - Changing of sources



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



Liquid Fuels Collection & Energy Balances

- IEA format is used
- Received data
 - Data is inserted into the Energy Balances in the required unit measurement
-this means calculations may be made to change from one unit measure to the required unit measure
- Consolidation
 - Once all different sets of data i.e. Coal, Gas ,Oil and Electricity have been organised into the Energy Balances, the data then is consolidated and that will be Annual Energy Balance VERSION 1 for the Statistical Committee review
 - There may be versions 2 to 3 after the two reviews of the EB

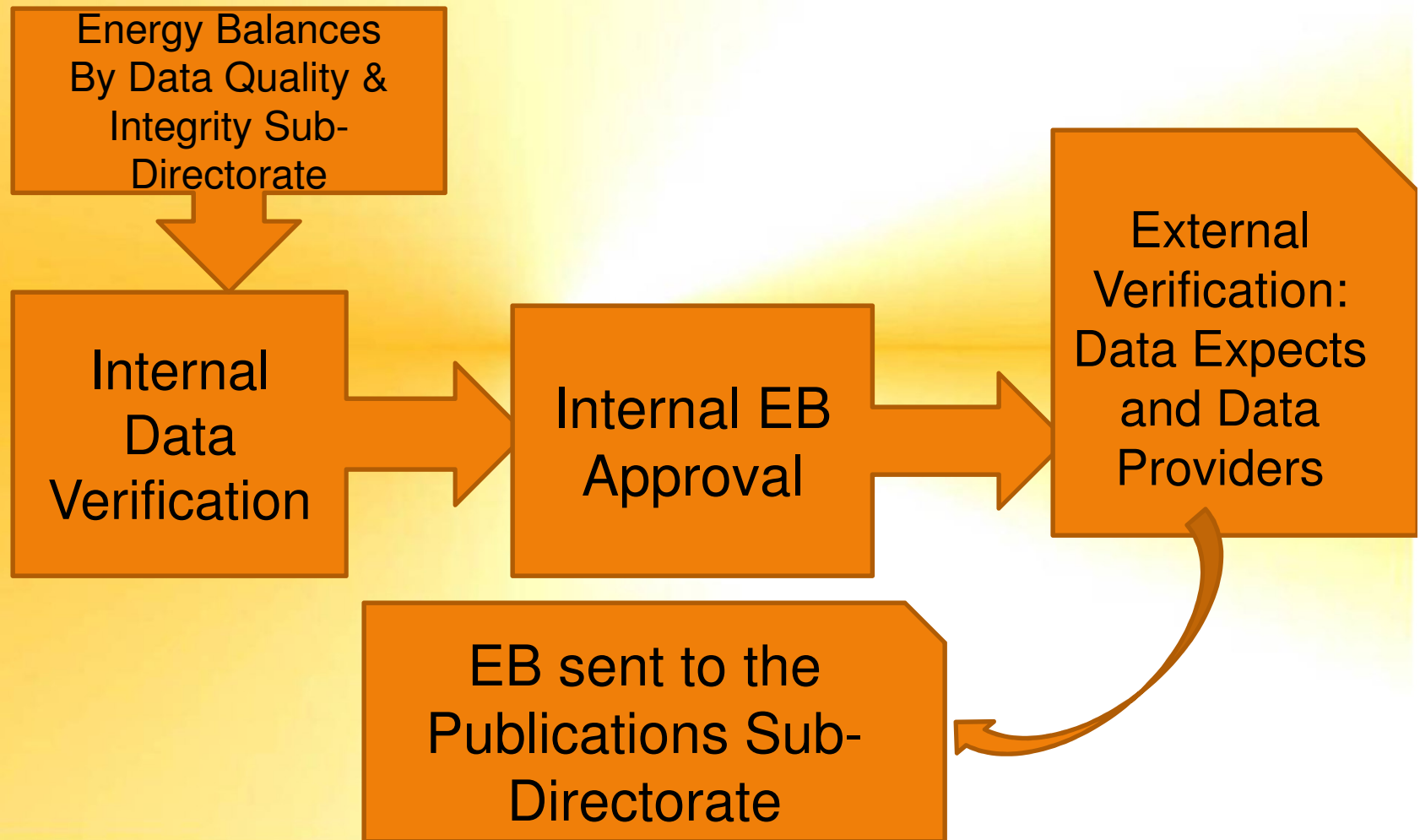


energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



Energy Balances to Publication Work Process



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA



THANK YOU!



energy

Department:
Energy
REPUBLIC OF SOUTH AFRICA