

South Africa's Climate Change Mitigation Action thus far...

SUMMARY



Climate Change and Air Quality



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Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Mitigation & MRV retreat – 1st Sept 2016

Thapelo Letete

A. National picture & NDC

B. Energy sector

- Supply-side
- Demand-side

C. Transport sector

D. Waste sector

E. Industrial processes

F. Cross-cutting

G. Collective impact

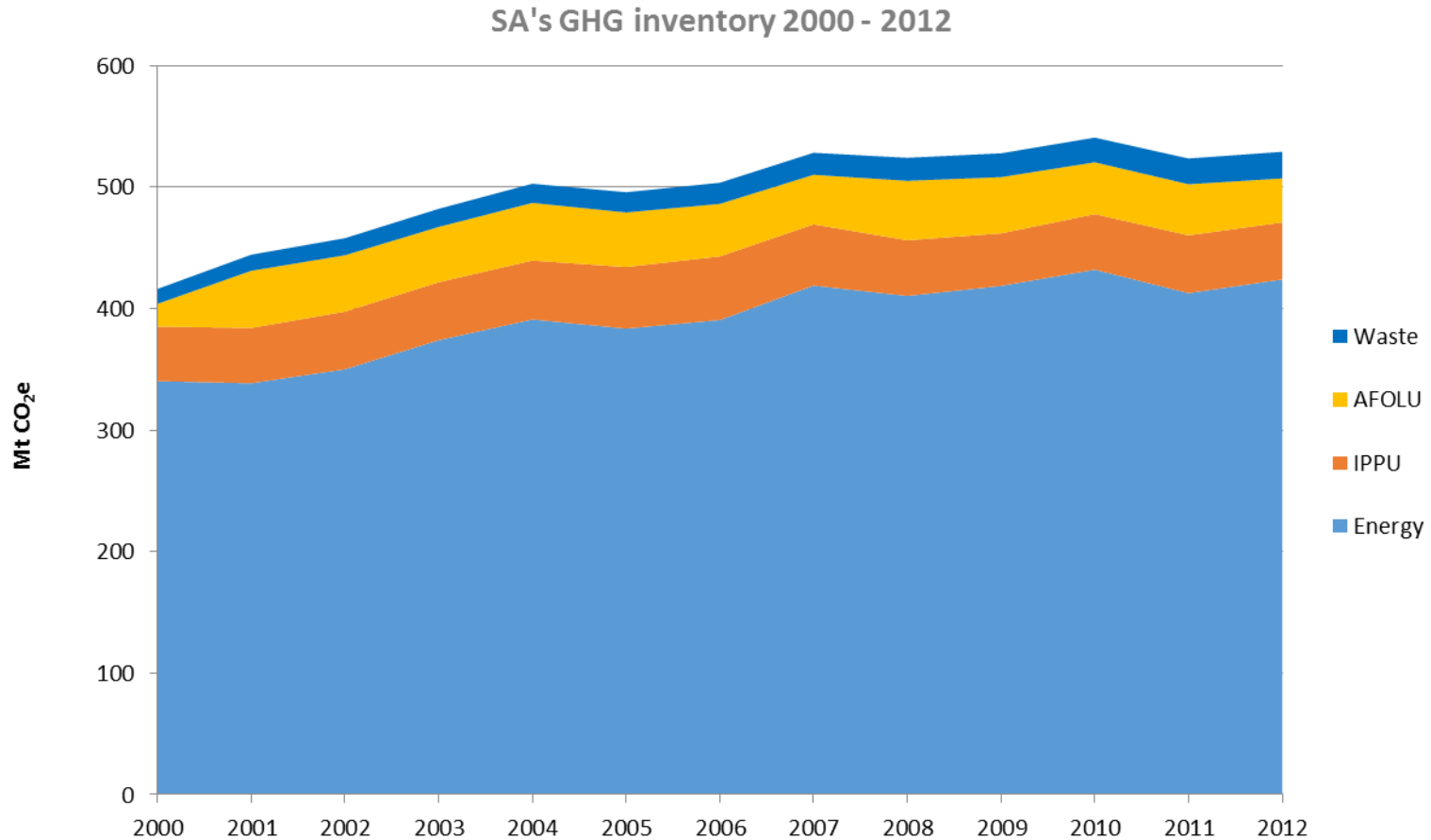


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Overview

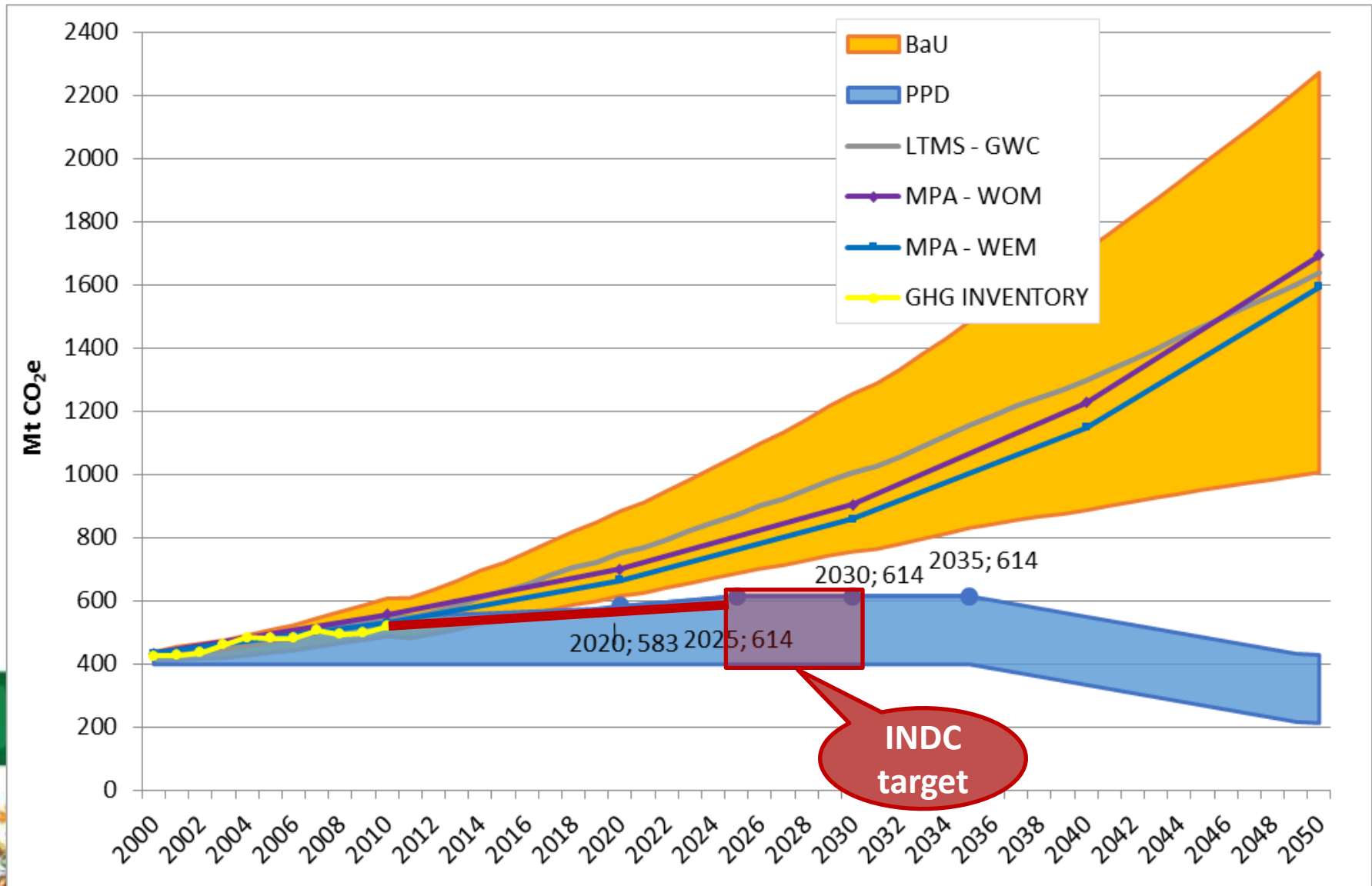
A. NATIONAL PICTURE – GHG Inventory



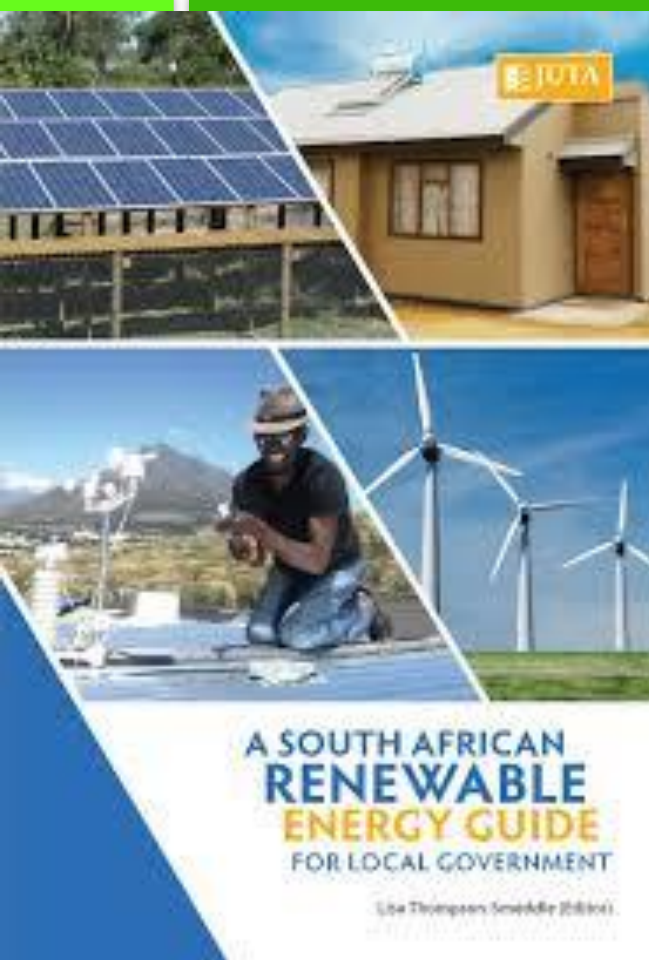
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A. NATIONAL PICTURE - INDC



B. ENERGY SECTOR - SUPPLY SIDE



1. The Renewable Energy Power Producer Procurement Programme (REIPPPP)
2. South African Wind Energy programme (SAWEP)
3. Open cycle gas turbines instead of coal power plants
4. National Solar-water heating programme
5. Private sector co-generation programmes
6. Industrial fuel switch programmes

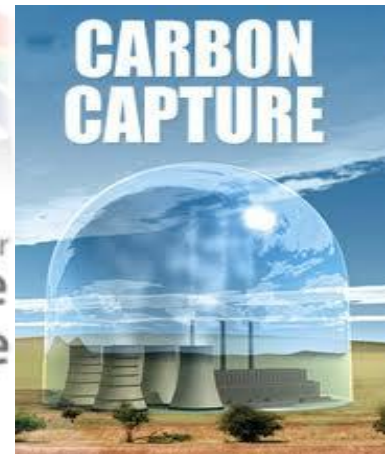


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South African Centre for
**carbon capture
& storage**



B. ENERGY SECTOR - DEMAND SIDE



- i. Eskom Integrated Demand-side Management programme
- ii. Municipal Energy Efficiency programme
- iii. Industrial Energy Efficiency improvement programme (NCPC)
- iv. Energy Efficiency Standards and the appliance labelling
- v. Green building programmes
- vi. Income tax act 12L & 12B programmes
- vii. Various private EE programmes (PSEE, voluntary, etc.)



C. TRANSPORT SECTOR

Bus rapid and integrated rapid transit systems in a number of cities:

- Cape Town,
- Johannesburg
- Tshwane

Rail improvement programmes:

- High speed rail (Gautrain)
- Rail recapitalization programme
- Road-to-rail freight programme



Fuel switch:

1. Electric cars (DEA, CSIR, Tshwane, etc)
2. Natural gas vehicles (taxies)

D. WASTE SECTOR 1

- Landfill-gas to electricity plants
- Wastewater treatment CHP programmes

**Northern Works wastewater treatment,
1.1 MW**

Bisasar Road LFG, 5.5 MW



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D. WASTE SECTOR 2

Bioenergy programmes

(biodiesel, biogas &
bioethanol)

Other interventions:

- a. Waste recycling and buy-back centres
- b. Composting programmes

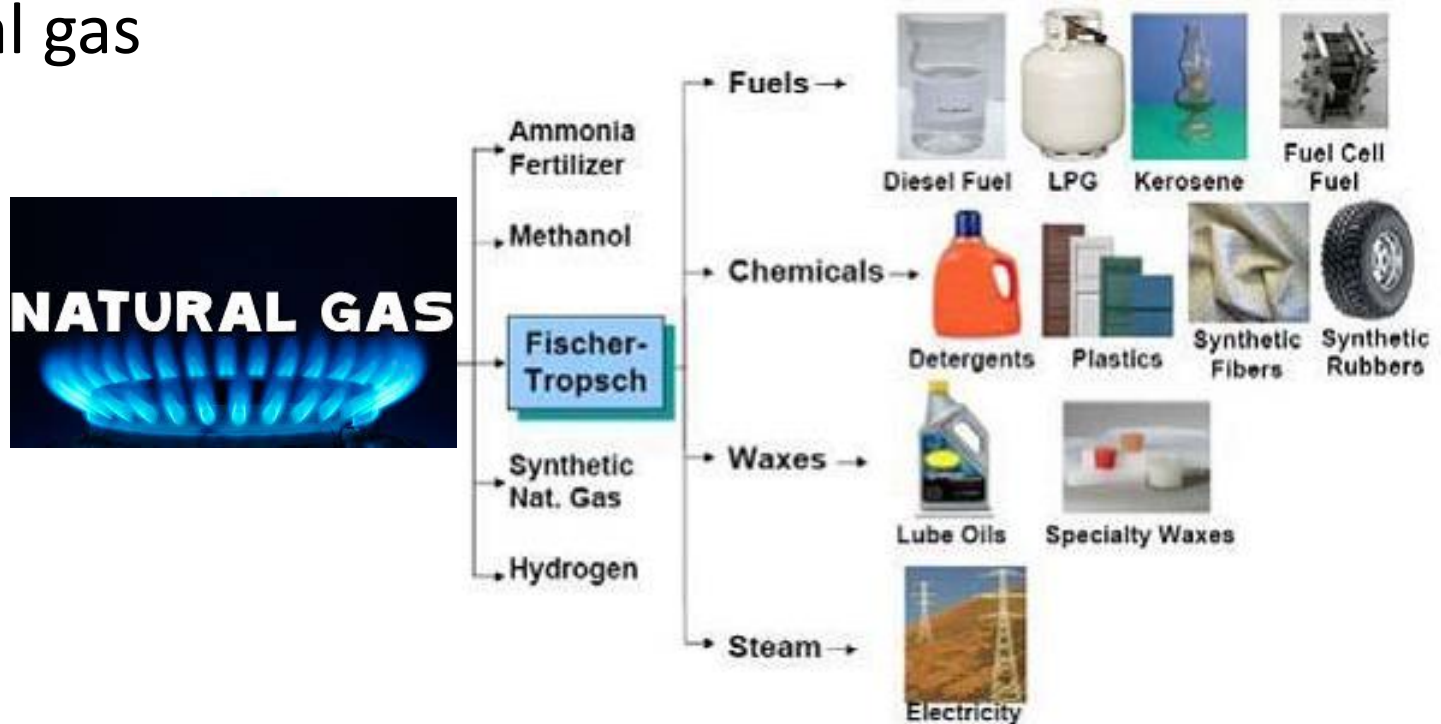


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E. INDUSTRIAL PROCESSES

- **Synthetic fuels industry:** Feed switch from coal to natural gas



- **Cement industry** programmes (reduced clinker, etc.)
- Waste gas and materials recovery and re-use programmes in various industries

F. CROSS-CUTTING 1

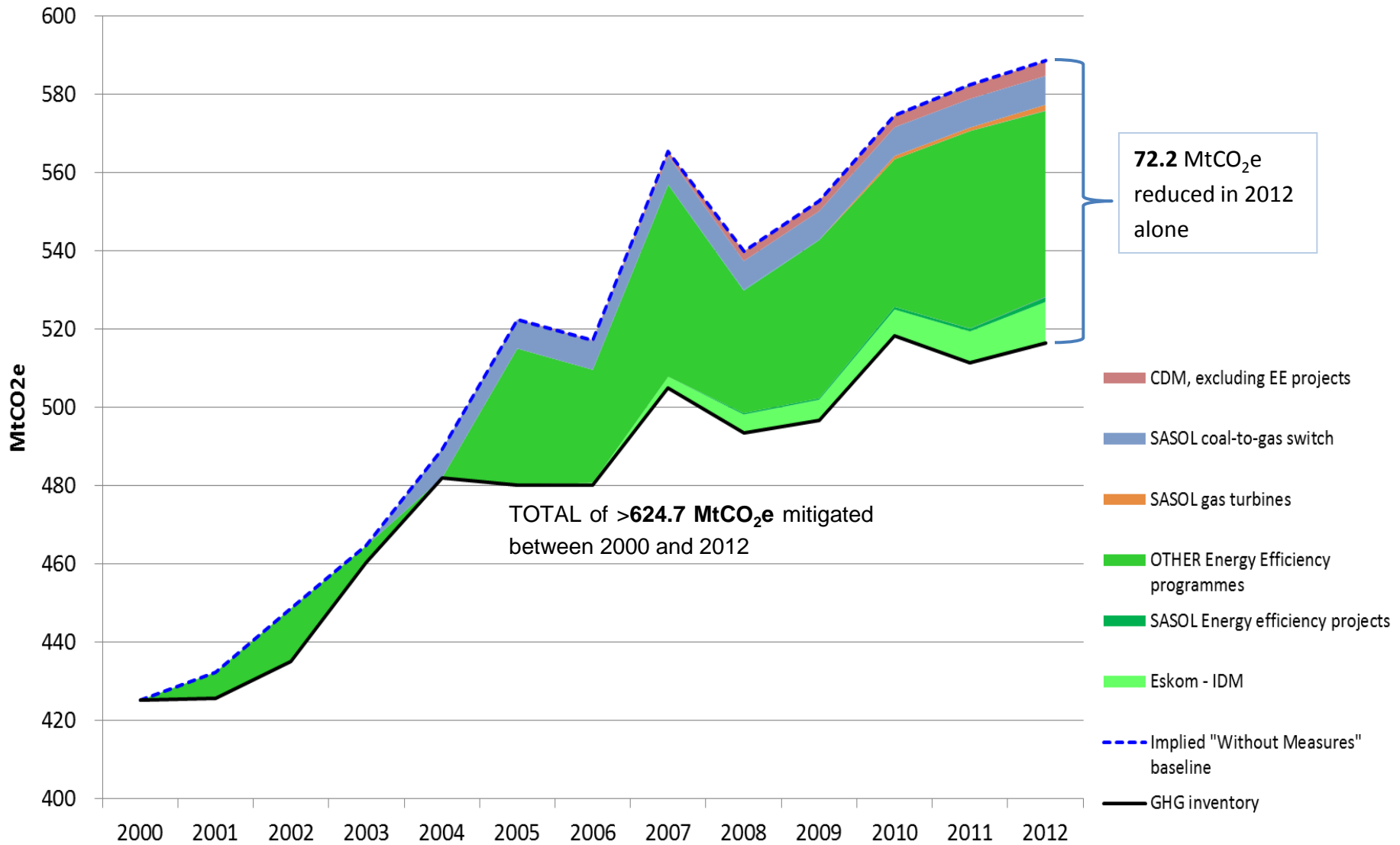
Green fund

- Provides catalytic finance to facilitate investment in green initiatives that will support poverty reduction and job creation
- The Green Fund responds to market weaknesses currently hampering South Africa's transition to a green economy by:
 - promoting innovative and high impact green programmes and projects
 - reinforcing climate policy objectives through green interventions
 - building an evidence base for the expansion of the green economy, and
 - attracting additional resources to support South Africa's green economy development



Carbon tax

- **Future:** It will allow businesses to internalise the negative effects of GHG emissions by adjusting the price of such services and environmental goods accordingly



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G. Estimated collective mitigation impact



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