



















Peer-to-peer learning exchanges workshop for international experts to share knowledge and experience on monitoring and evaluation of climate action

GHG Mitigation measures and Implementation

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- A phased approach
 - Phase 1
 - 2016-2020
 - Extended Phase 1 (Subsequent)
 - 2021-2022
 - -2021-2025
 - Phase 2 transition- pending National Climate Change
 Act Promulgation





South Africa's Policy instruments

- NEM: Air Quality Act and Transition to National Climate Change "Bill"
 - Declaration of six GHGs as priority air pollutants, 2017
 - National Greenhouse Gas Reporting Regulations, 2017
 - Methodological guidelines for quantification of GHG emissions
 - National Pollution Prevention (Mitigation) Plans Regulations, 2017
 - Minister General Notice No. 43827, 22 October 2020 on the submission of subsequent pollution prevention plans and the proposed subsequent process to manage the carbon budgets
- National Tax Law Amendment Act, 22 December 2023





High-level on current instruments

Six priority GHGs

• Carbon dioxide (CO_2) , methane (CH_4) , nitrous oxide (N_2O) , hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulphur hexafluoride (SF_6)

Production processes

• Coal mining, crude oil, natural gas, liquid fuels from coal or gas, cement, glass, ammonia, nitric acid, carbon black, iron and steel, ferro-alloys, aluminium, polymers, paper and pulp, electricity

Threshold

 Emission of greenhouse gases in excess of 0.1 Megatonnes (Mt) annually, reported as carbon dioxide equivalents (CO_{2-eq})





3. (1) A pollution prevention plan must include-

Regulations; and

will be achieved.

84 No. 40996

(f)

- details of the person submitting the plan, including company name and company registration number in terms of the Companies Act, name and contact details of person responsible for submitting the pollution prevention plan on behalf of the company;
- (b) description of production processes as listed in Annexure A to these Regulations;

This gazette is also available free online at www.gpwonline.co.za

(c) greenhouse gases generated from the production processes listed in Annexure A to these Regulations and their activities reported in accordance with the National Greenhouse Gas Emission Reporting Regulations; (d) total greenhouse gas emissions from the production process for the calendar preceding the submission of pollution prevention plan; (e) details of the methodology that is to be used by the person to monitor annual greenhouse gas emissions and evaluate progress towards meeting greenhouse gas emission reductions must be in line with the National Greenhouse Gas Emission Reporting

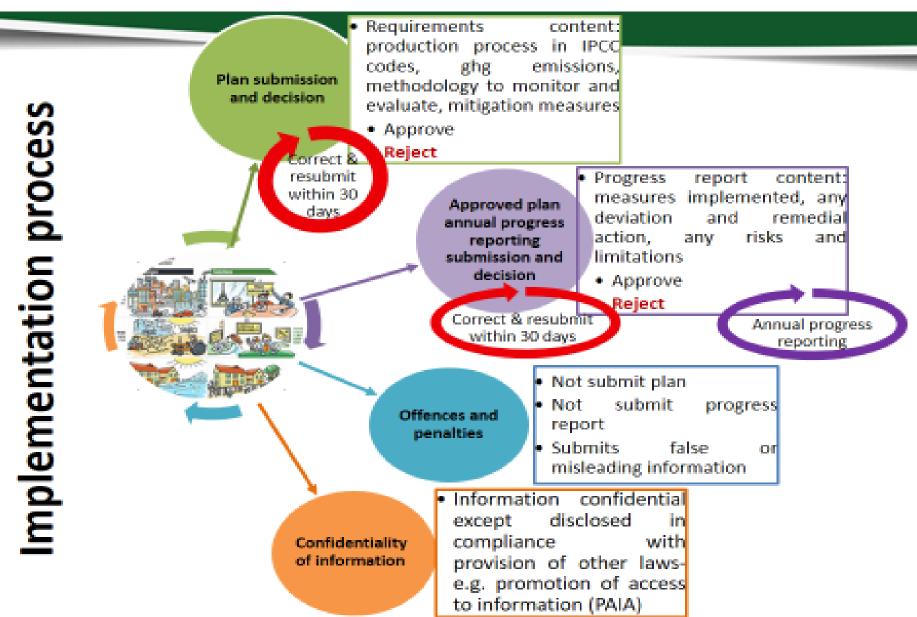
description of mitigation measures, based on the best information available at time, that will be implemented and result in deviation from the greenhouse gas emissions baseline over the pollution prevention plan's period, and the projected emissions reductions that

GOVERNMENT GAZETTE, 21 JULY 2017

Submission and approval of pollution preven

- (1) A person must submit a first pollution predate of promulgation of these Regulations submitted within five months of existing plan
- (2) The Minister must, in writing, within 14 days plan acknowledge receipt of the pollution;
- 3) The Minister must consider whether the regulation 3 of these Regulations and must the pollution prevention plan—
 - (a) approve the pollution prevention plan are prevention plan; or
 - (b) reject the pollution prevention plan.
- (4) If a pollution prevention plan is rejected writing, direct the person to amend the p written instruction from the Minister.
- (5) A revised pollution prevention plan must be with in accordance with subregulation (3).





Pollution prevention plans Regs Implementation

- First PPPs submissions were received in December 2017, and+-40 companies participated during 2016-2020 process,
- As of July 2018, all PPP submissions which met requirements were approved by the minister onwards,
- +-17* Mt CO₂eq of GHG emissions reductions were anticipated through initial PPP phase 1 (2016-2020)
- both scope 1 & 2 GHG emissions (scope 2 mainly for record purpose)
 - Actual emissions reduction reported +- 8.3* Mt CO₂eq
 - Implementation Gap of +- 8.7* Mt CO₂eq
- Subsequent PPPs submissions received by May 2021, following the October 2020 Minister's gazette notice
- +-40 companies **participated** during in 2021-2025
- +-36* Mt CO₂eq potential through PPP phase 2 (2021-2025)
 - both scope 1 & 2 GHG emissions (scope 2 mainly for record purpose)





Pollution prevention plans Regs Implementation

- Compliance audit for companies
 - April-December: Non-compliance audit conducted for the latest year ending 31 March
 - 8(a) failure to submit pollution prevention plan (i.e., GHG report or rejected)
 - 8(b) failure to submit annual progress report (those approved)
 - +- 4-6 companies annually identified for pre-compliance or ultimate compliance
 - 8(c) false or misleading information (not implemented yet)
- Relatively high administrative positive participation from key companies in terms of NPPP Regulations
 - Improvement tracking (based on annual commitment vs actual implementation)
 - Tracking intensities and efficiency for scope 1 related measures





GHG Mitigation approach and instruments

Overall Implementation and GHG Reporting linkages lessons thus far

Companies with
Annual GHG Reports
for validation of
Production process,
Methodology and
emissions

Companies with Carbon Budgets

Carbon Budget
 (Currently Voluntary
 participating(+-70)
 qualify for 5% carbon tax
 allowance) Regulations

Companies with Pollution Prevention Plans and Annual Progress Reports





- Lessons from 2016-2020 into 2021 onwards
 - Needed to apply more stringency in terms of
 - 3(1)(c) on activities reported in terms of **GHG reporting** regulations
 - 3(1)(e) on details of **methodology**
 - 3(1)(f) on **measures** that will be implemented and result with **deviation** from baseline and **projected emissions reduction** that will be achieved
 - 2016-2020 performance review was useful for 2020 Annual Progress Report and 2021 PPPs (and 2021 voluntary carbon budgets) preparations for companies that had submitted the review.
 - Consolidated 2016-2020 performance review report analysis and development preparation is underway

Principle	Definition
Transparency	Assumptions and methodologies
Accuracy	Relative measure of the exactness of emission/removal estimates
Consistency	Internally consistent in all its elements from previous years
Comparability	Estimates must be comparable according to the IPCC and National GHG Reporting Technical Guidelines
Completeness	All sources and gases included in the IPCC and National GHG Reporting Technical Guidelines





Way forward GHG Mitigation and its implementation

- National Climate Change "Bill" Chapter 5
 - 21: National greenhouse gas emissions trajectory
 - 22: Sectoral emissions targets
 - 23: Listed greenhouse gases and activities
 - 24: Carbon budgets
 - 25: Phase-down and phase-out of synthetic greenhouse gas emissions and declaration
 - 26: National Greenhouse Gas Inventory





Way forward on GHG Mitigation measures and Implementation

- Listed activities considerations
 - New installations
 - Existing installations
- GHG Mitigation Measures and Instruments
- Future transition considerations with National Climate Change Act
 - Production processes and threshold





THANK YOU!

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Thank You



