

IMPLEMENTATION OF GAUTENG CLIMATE CHANGE RESPONSE STRATEGY (GCCRS)

Rina Taviv

Sustainable Use of Environment, GDARD

Contents

- 1. Key messages of GCCRS
- 2. GDARD Activities for 2012/13
 - Finalising GCCRS implementation plan
 - Gauteng GHG Inventory
- 3. Way forward

GCCR SPACE (SA rich in policies)

International commitments and debates

Regional cooperation and commitments

National programmes and strategies

Gauteng policies &strategic priorities

Gauteng Climate Change Response Strategy

business, civil society, communities, NGOs, Individuals, industry, government

Municipal strategies

Other trategies/plans information

KEY MESSAGES

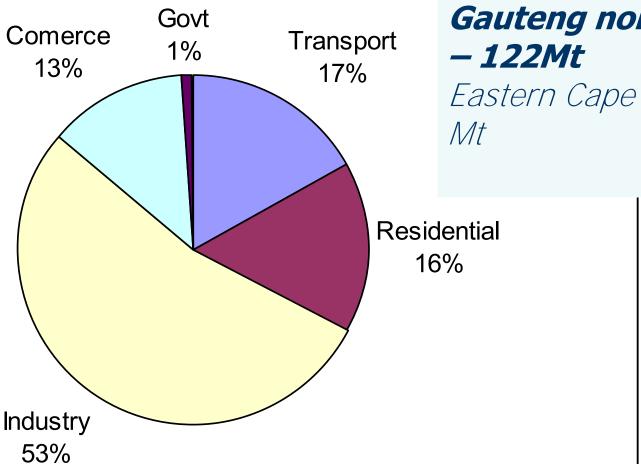
- Some of the proposed interventions already exist in policies, strategies and plans- they require consolidation, implementation and monitoring. GCCRS is adopted and adapted NCCRP
- Need for radical and strong political commitments and administrative actions to implement both mitigation and adaptation interventions.

KEY MESSAGES

- Government regards CC as one of the greatest threats to sustainable development. If unmitigated, has potential to undo or undermine many of the positive advances made in meeting South Africa's own development goals and the Millennium Development Goals (DEA 2010).
- CC is an inter-disciplinary and cross-cutting issue, which will require multi-disciplinary action from all stakeholders – national, provincial, local government, industry, civil society, the education and training sector, research organizations and communities - mainstreaming (GDARD 2011).

GAUTENG GREENHOUSE GAS (GHG) EMISSIONS





SA - 450 Mt CO₂ eq Gauteng energy territorial -43Mt

Gauteng non-territorial

Eastern Cape energy-24



GROWTH

Energyintensive economy

In the long-term, we need to redefine our competitive advantage and **structurally transform the economy** by shifting from an energy-intensive to a climate-friendly path as part of a pro-growth, pro-development and projobs strategy.

GDARD activities for 2012-13

- Update of the GCCRS to be aligned and linked with Gauteng Green Strategic Programme(GSP)
- 2. Initiate provincial GHG Inventory
- Mainstreaming GCCRS into other provincial departments (focus on Department of Roads and Transport)
- 4. Communication and awareness

Green Strategic Programme sectors

- Air Quality
- Climate Change
- Economic Development
- Energy

- Food Security
- Land use
- Transport
- Water and Sanitation
- Waste

According to GCCRS Climate Change is cross cutting and covers all 9 sectors

Deliverables of Green Strategic Programme

Deliverable (Intervention)	No of Interventions (Across Sectors)
Strategy and Regulatory Reforms	107
Resource Mobilisation	24
Research and Development	24
Capacity Building	23
Public Awareness and Education	30
Partnership Building and Collaboration	33
Infrastructure Development, Roll-out and	
Upgrade	35
Socio-economic and Market Interventions	36

These are deliverables (305) that needs to be done to get Gauteng to benefit from green economy opportunities.

Source: Gauteng DED presentation

Interventions proposed in GCCRS

Interventions	Number
4.1 Industry, Commerce and Mining	53
4.2 Transport	36
4.3 Energy Supply	19
4.4 Residential and Public buildings	55
4.5 Waste Management	16
4.6 Agriculture, Natural Resources and Other land-us	ses 15
5.1 Water	8
5.2 Agriculture and food security	5
5.3 Urban Development and Infrastructure Objectives	7
5.4 Natural Resources and Biodiversity	11
5.5 Health	3
5.6 Disaster Risk Management	11
6.1 Governance	8
6.2 Research	8
6.3 Public Awareness, Education and Training	13
6.4 Monitoring and Evaluation	5
Grand Total	27 3

Prioritisation of GCCRS

- 1. Aligned with DEA Lets Respond Toolkit
- 2. The actions to be done at national level separated and will be discussed with DEA
- 3. The R&D actions will be discussed with DEA/ Research institutions

Actions 2, 3 and reducing duplications will almost half number of actions in GCCRS

Prioritisation of GCCRS framework

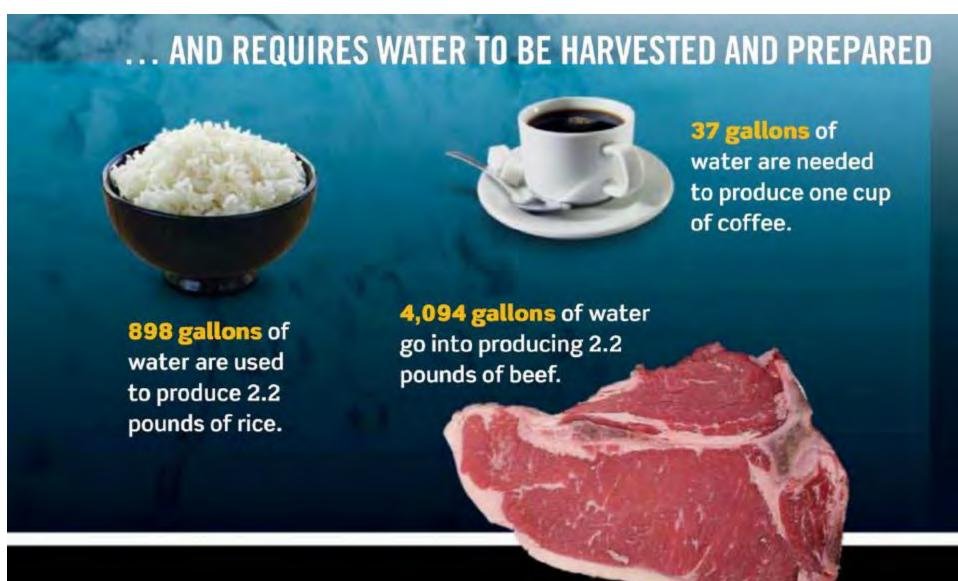
Sector/SUB-SECTOR	ACTION	Sustainability / MDG	Costs/ Benefits	Green jobs potential
4.1 Industry, Commerce and Mining				
4.1.1 Energy efficiency retrofitting of industrial, commercial and mining operations				
Role of Government:	Conduct periodic province- wide energy audits to verify whether GIES (2010) targets are being met.			

Weighting factors (1 low, 2 medium, 3 high):

- MDG Millennium Development Goals
- Cost benefits e.g. R/t CO₂ mitigated

Gaps to address – food security in Gauteng

*for 1 glass of wine = 31.7 gallons



Nutritional dis-balance 3000000 2500000 ■ Current Consumption 2000000 Nutritional Optimum Consumption 1500000 1000000 500000 Cereals Meat Sugar Roots Pulses Stimulants Milk Fruit Spices Alcohol Vegetables Vegetable Oils Eggs Nuts Fish Infant Milk Infant foods Condiments Supplements Animal oils and fats

Source: A strategy for a developmental green economy for Gauteng, 2010

GHG Inventory - Objectives

- 1. To define and align data collection of all relevant departments.
- 2. To have a system for annual data updates which is aligned with South African Air Quality Information System (SAAQIS) module for GHG inventory
- 3. To collect data necessary for the Provincial and national strategies implementation.
- 4. To provide information for decision making and report to Provincial Planning Commission and Green Project Office of Gauteng Department of Economic Development, the Climate Change M&E unit of the DEA and to all other relevant organizations.

GHG Inventory – Framework (phase 1)

As required by the IPCC Guidelines, 2006 additional sectors be included in the GHG inventory

- 1. Industrial processes and product use emissions
- 2. Agriculture, forestry (urban forest) and other land uses (includes fire)
- 3. Waste

GHG Inventory – preliminary findings

- 1. The energy sector is most significant, but GHG emissions from electricity produced outside of Gauteng are about 150% of the GHG emissions within province.
- 2. The most significant sector is transport, but difference between using Tier 1 or Tier 2 for calculations is not significant.
- 3. The waste sector is also important. Although Gauteng is the smallest province it produces about 45% of the total municipal waste in SA, but there is no enough provincial data and
 - no mitigation targets for province.

GHG Inventory – preliminary findings (2)

- 1. Most of the data available at national level and it is not easy to downscale it to provincial level
- 2. The provincial departments are not equipped/capable to collect, process and maintain large amount of data required for proper (IPCC, 2006) GHG Inventory
- 3. GHG inventory does not look like most appropriate provincial tool for monitoring compliance with provincial mitigation targets and agreement on simpler indicators using data that is already collected may be more practical.

How mainstreaming can be done?

- Re-educate decision makers that there is need to include Climate Change in updated strategies rather than creating new Climate Change strategies
- Consider Climate Change in all relevant planning activities (IDPs, MTEF, etc.)
- Create clear roles and responsibilities that minimise duplication and maximise synergies (employ project mangers to run flagship projects/activities rather than increase government structure)

Way forward

- 1. Start with pilots/demos that can be upscaled into flagships (focus on "lower hanging fruits" with biggest impact)
- Build partnership on flagships between departments to create joint ownership, share limited budgets and minimise project management burden
- 3. Build partnership on flagships with NGOs and private sector
- 4. Minimise and simplify reporting
 (same report for multiple purposes)
 and have innovative
 use of technical skills

Together we can do more