



transport

Department:  
Transport  
**REPUBLIC OF SOUTH AFRICA**

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**11 January 2010**

**SUBJECT: COLLECTION OF INFORMATION ON VOLUNTARY ACTIVITY FOR  
GREENHOUSE GAS (GHG) REDUCTION / MITIGATION IN THE  
AVIATION SECTOR**

1. The Department of Transport of the Republic of South Africa presents its compliments to the International Civil Aviation Organization and has the honour to refer to State Letter Ref: AN 1/17-09/93 dated 2 December 2009 regarding the above-mentioned matter.

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2. Kindly be informed that our South African Civil Aviation does not have such voluntary activity, except what is currently done by the South African Department of Environmental Affairs and Tourism. Attached please find the completed questionnaire.
3. The Department of Transport of the Republic of South Africa avails itself of the opportunity to renew to the International Civil Aviation Organization the assurances of our highest consideration.

Ydurs sincerely

**for DIRECTOR-GENERAL: TRANSPORT**

ATTACHMENT to State letter AN 1/17-09/093

**QUESTIONNAIRE CONCERNING VOLUNTARY ACTIVITY FOR GHG REDUCTION/MITIGATION  
IN THE AVIATION SECTOR**

A copy of the questionnaire, in Microsoft Word format, has been posted on the Internet at <http://www.icao.int/icao/en/env/measures.htm>.

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**Q1.** Name of the voluntary activity.

None in Aviation (Except what is currently done by the Department of Environmental Affairs and Tourism).

**Q2.** Type<sup>1</sup> of the voluntary activity.

Unilateral commitment     
  Public voluntary scheme     
  Negotiated agreement  
 Other (Please describe the activity in the box below.)

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**Q3.** Please mark all the participants<sup>2</sup> of the activity.

Airline   
  Airline association   
  Manufacturer   
  Manufacturer association   
  Airport authority  
 Air traffic control   
 Government   
 Other (Please specify in the box below.)

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**Q4.** Is the voluntary activity accompanied by a side agreement<sup>3</sup>?

Yes (Proceed to Q4-1.)   
 No (Proceed to Q5.)

<sup>1</sup>The features of each type of voluntary activity are as follows.

- Unilateral Commitment: The environmental improvement plan established by the participant itself, and declared to the stakeholders, such as employees, stockholders, consumers, etc. Target and measures to environmental improvement are established by the participant itself.
- Public Voluntary Scheme: The scheme which the participant agrees voluntarily with the standard on environmental improvement target, technology, management, etc. established by public organization such as Ministry for Environment.
- Negotiated Agreement: Contract based on negotiation between public organization (national government/local government) and industries. Both parties can independently decide whether to agree to the contract.

<sup>2</sup> If you marked "Public voluntary scheme" on Q2, the public organization which establishes the standard is included in the participants. If you marked "Negotiated agreement" on Q2, the public organization which agrees to the contract is included in the participants.

<sup>3</sup> "Side agreement" is the agreement between the participant of the activity and a third party. For example, the agreement between an airline and an engine manufacturer, which prescribes that the manufacturer assist the airline to attain its target by introducing new emission-reducing technologies, is considered as a side agreement. For more information, please refer to Part II Paragraph 6.5.2 on "Template and Guidance on Voluntary Measures", released on ICAO CAEP website ([http://www.icao.int/icao/en/env/Caep\\_Template.pdf](http://www.icao.int/icao/en/env/Caep_Template.pdf)).

**Q4-1.** If the voluntary activity is accompanied by side agreement, please describe the parties and outline the side agreement.

**Q5.** Please answer the following questions concerning the coverage of the voluntary activity:

**Q5-1.** Select all green house gases (GHGs) which are part of the voluntary activity.

- Carbon dioxide (CO<sub>2</sub>)  
  Methane (CH<sub>4</sub>)  
  Nitrous oxide (N<sub>2</sub>O)  
  Hydrofluorocarbons (HFCs)  
 Perfluorocarbons (PFCs)  
  Sulphur hexafluoride (SF<sub>6</sub>)  
  Nitric oxide & Nitrogen dioxide (NO<sub>x</sub>)  
  Water vapor (H<sub>2</sub>O)  
  Other (Please specify in the next box.)

**Q5-2.** Please select all operations<sup>4</sup> which are part of the voluntary activity.

- International passenger flight  
  Domestic passenger flight  
  International cargo flight  
 Domestic cargo flight  
  Other (Please specify in the next box.)

**Q6.** Please answer the following questions concerning the index to measure the effect of the voluntary activity.

**Q6-1.** Select the index used to measure the effect of the voluntary activity.

- Absolute quantity of GHG emissions<sup>5</sup> (Please outline the index in the box below.)  
 Unit of GHG emissions<sup>6</sup> (Please outline the index in the box below.)  
 Introduction of specific technology  
 Introduction of specific procedure  
  Other (Please specify in the box below.)

<sup>4</sup> In case that the voluntary activity describes its coverage from the other viewpoint than listed above, such as “operation under IFR”, “operation of aircraft larger than specific weight”, etc. and that aim of the activity is not linked to operation directly, for example introduction of new technology which contributes reduction/mitigation of GHGs, please mark “other” and please describe feature.

<sup>5</sup> The example of the unit is Ton-CO<sub>2</sub>, Ton-C, m<sup>3</sup>-CO<sub>2</sub>, etc.

<sup>6</sup> The example of the unit is g-CO<sub>2</sub>/RPK (Revenue Passenger Kilometer), g-CO<sub>2</sub>/ASK (Available Seat Kilometer), g-CO<sub>2</sub>/RTK (Revenue Ton Kilometer), g-CO<sub>2</sub>/ATK (Available Ton Kilometer), etc.

**Q6-2.** Please outline the procedure to acquire data to calculate or describe the index of Q6-1.

**RSA Government's vision:**

Government has outlined its vision for climate policy in the following terms:

- In designing our policy for the transition to a climate resilient and low-carbon economy and society, we will balance our mitigation and adaptation response.
- Our climate response policy, built on six pillars, will be informed by what is *required by science*, namely to limit global temperature increase to 2°C above pre-industrial levels.

The six policy direction themes are:

Theme 1: Greenhouse gas emission reductions and limits;  
 Theme 2: Build on, strengthen and/or scale up current initiatives;  
 Theme 3: Implementing the "Business Unusual" Call for Action;  
 Theme 4: Preparing for the future;  
 Theme 5: Vulnerability and Adaptation; and  
 Theme 6: Alignment, Coordination and Cooperation.

**Q7.** Please answer the following questions concerning the target of the voluntary activity.

**Q7-1.** Is the target of the voluntary activity clearly defined?

Yes (Proceed to Q7-2.)     No (Proceed to Q8.)

**Q7-2.** Please describe the target of the voluntary activity, including substance of the target, target year, base year.

GHG emissions must peak, plateau and decline. This means it must stop growing at the latest by 2020-2025, stabilise for up to ten years and then decline in absolute terms.

**Q8.** Please list the measures to attain the target or to reduce/mitigate GHGs.

**Mitigation Strategy**

With reference specifically to our mitigation strategy, Cabinet adopted the following approach:

- The *Start Now* strategic option as outlined in the LTMS (long term mitigation scenarios) will be further implemented. This is based, amongst others, on accelerated energy efficiency and conservation across all sectors, including industry, commerce, transport and residential, inter alia through more stringent building standards.
- We will invest in the *Reach for the Goal* strategic option by setting ambitious research and development targets focussing on carbon-friendly technologies, identifying new resources and affecting behavioral change.

- Furthermore, regulatory mechanisms as set out in the *Scale Up* strategic option will be combined with economic instruments such as taxes and incentives under the *Use the Market* strategic option, with a view to:
  - Setting ambitious and mandatory (as distinct from voluntary) targets for energy efficiency and in other sub-national sectors. In the next few months each sector will be required to do work to enable it to decide on actions and targets in relation to this overall framework.
  - Based on the electricity-crisis response, government's energy efficiency policies and strategies will be continuously reviewed and amended to reflect more ambitious national targets aligned with the LTMS.
  - Increasing the price on carbon through an escalating CO2 tax, or an alternative market mechanism.
  - Diversifying the energy mix away from coal whilst shifting to cleaner coal, by for example introducing more stringent thermal efficiency and emissions standards for coal fired power stations.
  - Setting similar targets for electricity generated from both renewable and nuclear energy sources by the end of the next two decades.
  - Laying the basis for a net zero-carbon electricity sector in the long term.
  - Incentivising renewable energy through feed-in tariffs.
  - Exploring and developing carbon capture and storage (CCS) for coal fired power stations and all coal-to-liquid (CTL) plants, and not approving new coal fired power stations without carbon capture readiness.
  - Introducing industrial policy that favours sectors using less energy per unit of economic output and building domestic industries in these emerging sectors.
  - Setting ambitious and where appropriate mandatory national targets for the reduction of transport emissions, including through stringent and escalating fuel efficiency standards, facilitating passenger modal shifts towards public transport and the aggressive promotion of hybrids and electric vehicles.

**Q9.** Please answer the following questions concerning periodic review of the voluntary activity.

**Q9-1.** Is the progress of the voluntary activity reviewed periodically?

Yes (Proceed to Q9-2.)    No (Proceed to Q10.)

**Q9-2.** Please describe the frequency of the periodic review.

Annually.

**Q9-3.** Is a third party's opinion considered/to be considered in the periodic review?

Yes (Proceed to Q9-4.)    No (Proceed to Q10.)

**Q9-4.** Please outline the third party opinion.

Theme 6:      **Alignment, Coordination and Cooperation.**

**Q10.** Please answer the following questions concerning legislative obligation.

**Q10-1.** Is there any legislative obligation on attainment of the target?

Yes (Proceed to Q10-2.)    No (Proceed to Q11.)

**Q10-2.** Please describe legislative obligation, including measures taken in case that the participant of the voluntary activity fails to attain the target.

**Government's VISION, STRATEGIC DIRECTION AND FRAMEWORK FOR CLIMATE POLICY**

The South African Government: Long-term mitigation scenario (LTMS).

**Q11.** Please answer the following questions concerning disclosure of information<sup>7</sup> on the voluntary activity:

**Q11-1.** Is the name of the participant of the voluntary activity disclosed to the public?

Yes    No

**Q11-2.** Is the target of the voluntary activity disclosed to the public? (If you marked "no" at Q7-1, the answer to this question shall be "not applicable".)

Yes    No    Not applicable

**Q11-3.** Are the measures taken/to be taken by the participant of the voluntary activity to attain the target/reduce or mitigate GHGs disclosed to the public?

Yes    No

**Q11-4.** Is the result of each periodic review disclosed/to be disclosed to the public? (If you marked "no" at Q9-1, the answer to this question shall be "not applicable".)

Yes    No    Not applicable

**Q11-5.** Is the effect of the voluntary activity disclosed/to be disclosed to the public?

Yes    No

<sup>7</sup> Item(s) to which the answer is/are "no" from Q11-1 to Q11-5, are considered but this information will not be included in the final report.

**Q12.** Please answer the following questions concerning effect of the voluntary activity:

**Q12-1.** Is third party's opinion considered/to be considered when examining the effect of the voluntary activity?

Yes (Proceed to Q12-2.)    No (Proceed to Q12-3.)

**Q12-2.** Please outline the third party opinion.

Theme 6:      **Alignment, Coordination and Cooperation.**

**Q12-3.** How much of GHGs amount emitted per year, in CO<sub>2</sub> weight equivalent are reduced or mitigated/expected to be reduced or mitigated by the voluntary activity?

**To avoid the worst impacts of climate change RSA needs to limit the temperature increase to 2°C above pre-industrial levels.**

**Q13.** Please provide the website address for the voluntary activity, if any, in the box below.

<http://www.environment.gov.za>

**Q14.** Please describe additional information, if any.

None

Duly completed questionnaires should be returned to:

Voluntary Measures Focal Point  
ICAO Committee on Aviation Environmental Protection (CAEP)  
Attention: Mr. Tetsu Shimizu  
Policy Coordinator for Global Environment  
Civil Aviation Bureau of Japan  
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