

**« Support to improvement of
environmental governance in Georgia»**

**Letter of Contract N«2009/223790 - Version
1»**

Inception Report

Prepared by:

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“The contents of this publication are the sole responsibility of the contractor and can in no way be taken to reflect the views of the European Union.”



International Consultant:	Dr Tom Stafford
Local Consultant:	Ms. Lia Todua
Project:	Project N° 2009 / 223790 on State of the Environment Reporting In Georgia
Mission	Number 1
Dates	17 th January – 30 th January 2010

TOR Project Objectives:

The objective of the work under this assignment is to implement Capacity Building (CB) activities on State of the environment reporting:

1. Rules for development of the National Report on the State of Environment
 - The new Rules should be as detailed as possible, clear and directly applicable. They should contain a set of key environmental indicators.
2. National Report on the State of Environment
 - The Report should contain key information on the state of the environment in terms of:
 - a. its current condition;
 - b. the pressures on it and the drivers of those pressures;
 - c. the extent to which these pressures are significant;
 - d. initiatives carried out to address environmental concerns, both by the Government and by the donor community, as well as by the civil society and the private sector;
 - e. impacts of those initiatives, etc.
 - f. It should also identify gaps where financing and/or technical assistance would be required.
 - g. The Report should be user friendly and should be considered for a wide range of readers - high level decision makers, government officials, NGOs, experts and public. It should cover the period of 4 years (2006-2009).
3. Report on recommendations for future EU assistance to the environmental sector
 - The financing gaps identified shall be analysed and matched with existing EU co-operation instruments. A special attention will be paid to a possible sector policy support programme (SPSP) for the environment. An assessment of the environmental sector shall be carried out to determine to what extent it is ready for a possible SPSP and what still has to be done. Besides others, the seven key elements of an SPSP as defined in the EuropeAid's guidelines on "Support to sector programmes" shall be used for this purpose. The priorities and plans of other donors in the environmental sector will also be taken into consideration, in order to avoid overlaps and create synergies. Practical recommendations with detailed proposals on the areas for a further EU intervention and relevant aid modalities should be presented.

Outline Project Plan for Project Deliverables

The key tasks and milestones identified for delivery of the State of the Environment Report are provided in Table 1 and the proposed timeline provided in Figure 1. The timeframe and dates are incredibly ambitious and do not allow for any slippage.

In broad terms the work is divided into three missions for the International expert with the National expert providing ongoing support over the lifetime of the project up-to a maximum of 70 days.

Mission 1:

- Agree structure and content of the SOE Report with Ministry and other stakeholders.
- Meet with chapter authors and discuss structure and content of chapters.
- Put in place administrative framework for producing report including information management, report design and production.

Intermission work: Chapters drafted and initial internal review, chapters translated

Mission 2:

- Review draft chapters and comment (Editorial Process)
- Agree main findings of and Key Messages of the report with Ministry.
- Begin drafting rules for future SOE reports based on project experience.

Intermission work: Chapters revised, translation updated, chapters put into final (DTP) layout.

Mission 3:

- Review the proposed amendments for other Ministries
- Meeting with working group to discuss progress
- Finalise Rules for State of the Environment Preparation in Georgia
- Draft Final Report

It must be reiterated that this project cannot prepare the State of the Environment Report in isolation and indeed is dependent to a large extent on Ministry personnel to write chapters for the report and to provide input into the conclusions and recommendations drawn by the report. The contribution by Ministry staff in this regard is seen as a possible risk to achieving the timelines outlined in this plan.

Milestone No.	Milestone title	Due date	Delivered by WP
1	Prepare outline structure of SOE report	25/1	TS/LT
2	Agree report content with Ministry	29/1	TS/LT Ministry
3	Discuss content of each chapter with authors	29/1	TS/LT/M Authors
4	Select graphic designer and agree layout and design for SOE Report	29/1	TS/LT Ministry
5	Meet with stakeholders to outline SOE drafting process	29/1	TS/LT Ministry
6	Request required information for other Ministries/bodies	5/2	Authors/MJ
7	1 st Draft of each chapter prepared	26/2	Authors
8	Review 1 of chapters complete	5/3	LT/NS
9	Revisions of chapters complete	12/3	Authors
10	Translation of Chapters	19/3	Translator
11	Review 2 - English Version	23/3	TS
12	Revisions of Chapters complete	30/3	Authors/LT
13	Agree Main Findings of SOE Report and Agree Key Messages	26/3	TS/LT Ministry
14	Review 3 - of chapters by Ministry Editors (Up to and including Minister)	16/4	Ministry
15	Revisions of chapters complete	23/4	Ministry/Au thors/LT
16	Translation of amendments/Final version	27/4	Translator
17	Desk top publishing	7/5	DTP
18	Final quality checking of SOE Report	14/5	TS/LT Ministry
17	Sign off of report at Ministry level	21/5	Minister
18	Circulate Draft SOE report to other Ministries and comments recieved	21/6	Ministry
19	Comments reviewed and report amended	28/6	Ministry
20	Present report to Government	30/6	Minister
21	Print report	16/7	PR Department
22	Prepare media pack and organise launch	16/7	PR Department
23	Launch Report/Press Event	20/7	PR Department

ID	Task Name	Start	Finish	Duration	Q1 10							Q2 10							Q3 10																	
					17/1	24/1	31/1	7/2	14/2	21/2	28/2	7/3	14/3	21/3	28/3	4/4	11/4	18/4	25/4	2/5	9/5	16/5	23/5	30/5	6/6	13/6	20/6	27/6	4/7	11/7	18/7	25/7				
1	Prepare outline structure of SOE report	18/01/2010	25/01/2010	6d	■																															
2	Agree report content with Ministry	18/01/2010	29/01/2010	10d	■	■																														
3	Discuss content of each chapter with authors	25/01/2010	29/01/2010	5d		■																														
4	Select graphic designer and agree layout and design for SOE Report	22/01/2010	28/01/2010	5d	■	■																														
5	Meet with stakeholders to outline SOE drafting process	28/01/2010	29/01/2010	2d			■																													
6	Request required information for other Ministries/bodies	05/02/2010	05/02/2010	1d																																
7	1st Draft of each chapter prepared	18/01/2010	26/02/2010	30d	■	■	■	■	■	■																										
8	Review 1 of chapters complete	26/02/2010	05/03/2010	6d																																
9	Revisions of chapters complete	01/03/2010	12/03/2010	10d																																
10	Translation of Chapters	12/03/2010	19/03/2010	6d																																
11	Review 2 - English Version	15/03/2010	23/03/2010	7d																																
12	Revisions of Chapters complete	19/03/2010	30/03/2010	8d																																
13	Agree Main Findings of SOE Report and Agree Key Messages	22/03/2010	26/03/2010	5d																																
14	Review 3 - of chapters by Ministry Editors (Up to and including Minister)	02/04/2010	16/04/2010	11d																																
15	Revisions of chapters complete	09/04/2010	23/04/2010	11d																																
16	Translation of amendments/Final version	23/04/2010	27/04/2010	3d																																
17	Desk top publishing	27/04/2010	07/05/2010	9d																																
18	Final quality checking of SOE Report	10/05/2010	14/05/2010	5d																																
19	Sign off of report at Ministry level	14/05/2010	21/05/2010	6d																																
20	Circulate Draft SOE report to other Ministries for comment	21/05/2010	21/06/2010	22d																																
21	Comments reviewed and report amended	21/06/2010	28/06/2010	6d																																
22	Present report to Government	30/06/2010	30/06/2010	1d																																
23	Print report	05/07/2010	16/07/2010	10d																																
24	Prepare media pack and organise launch	05/07/2010	16/07/2010	10d																																
25	Launch Report/Press Event	20/07/2010	20/07/2010	1d																																

Proposed Structure and content for State of The Environment 2010

The current proposed report structure and outline content of the report are provided in Annex 1.

The content and structure of the report may be amended during the drafting as chapters may be amalgamated or split based on the level of information available on the particular topic.

Dr Tom Stafford
International Expert

Ms. Lia Todua
Local Expert

Annex 1

SoE 2010 Chapter Outlines

Section 1. Introduction

Chapter 1: Background & Introduction

- Introduction
- Regulatory and Policy Framework
- International obligations with regards to environment
 - International Conventions, (H2)
 - Access to Information on the Environment (Arhus)
- Conclusion
- References

Chapter 2: Socio-economic Developments

The Socioeconomic Context

Introduction

Population

- Population increase & distribution
- Population density
- Urbanisation and consequent impacts

Households (H1)

- Growth in number of households
- Consumer behaviour and contribution to pressures on the environment -
- Household expenditure and ensuing environmental pressures -

Economy

- Georgia's economic growth per capita GDP
- GDP share by sector Energy, Industry, Agriculture etc...
- Impact of Georgia's exceptional economic growth – positive impacts and less positive impacts of same.
- Employment figures and trends

Infrastructure

- Expenditure earmarked for environmental infrastructure - wwtp, waste management facilities.

Key Challenges/Issues

Section 2 Air Pollution

Chapter 3: Ambient Air Quality

Introduction

Importance of good air quality (1 paragraph)

Normative basis (permitted pollution levels, comparison with EU/WHO norms) -

Air Quality in Georgia

Description of air monitoring (how many stations, in which cities, what is measured, how often, background monitoring station)

Map of Monitoring Stations

Air quality data (to be compared with PAC and EU/WHO allowable levels):

Particulate Matter Total

Short description of the pollutant and its effects

Number of exceedences of relevant standard per year

Annual mean concentrations, Time Series

Nitrogen Oxides

Short description of the pollutant and its effects

Number of exceedences of relevant standard per year

Annual mean concentrations, Time Series

Sulphur Dioxide -

Short description of the pollutant and its effects

Number of exceedences of relevant standard per year

Annual mean concentrations, Time Series

Lead -

Short description of the pollutant and its effects

Number of exceedences of relevant standard per year

Annual mean concentrations, Time Series

Carbon Monoxide

Short description of the pollutant and its effects

Number of exceedences of relevant standard per year

Annual mean concentrations, Time Series

Causes -

Main air polluting sectors of economy and their effect on air quality (diffuse and point sources).

Diagrams of annual emissions from main sectors, time series

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 4: Climate Change

Introduction

Short information about the causes –effects of climate change

Short story about the international process of IFCCC and latest developments, status of Georgia , obligations/opportunities

The Current Situation in Georgia -

Observations and projections

Air Temperature

Precipitation

Impacts (3 cases described in second national communication: sea level rise, desertification, increased geohazards in mountains)

Causes

GHG Emissions -

Trends (*graphs for sectors and gases*) –

share of Georgia in worlds emissions

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Section 3: Water

Chapter 5: Groundwater

Introduction (background information)

Current Situation in Georgia

Classification of groundwater, comparison with EU approach

Quality of groundwater: Availability of data on quality and quantity of groundwater (*lack of recent data, availability of data from 20 years ago? present the old data – where were the substantial exceedances of norms*)

Use of groundwater by:

drinking water supply systems

enterprises

share of population using the unprocessed groundwater for drinking purposes

Sources of groundwater contamination: description of groundwater pollution from: industry, agriculture, landfills/waste dumps, septic tanks/toilets, etc.

Map of groundwaters/aquifers (and their vulnerability), *main polluters (sectors) in each aquifer?*

Key Issues/Challenges (H1)

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 6: Rivers

Introduction/background information

Current Situation in Georgia

Brief description of existing river monitoring (*how many rivers, how many points, how frequently, what parameters. brief info about planned bio-monitoring*)

Monitoring data (*diagrams for: N, BOD, Metals, phosphate – annual means for 10 years, for main rivers*)

Map of Georgia's main Rivers with monitoring points indicated (*size of the point proportional to the pollution in specific year*) –

Map of river catchments. (*some text on main water polluter sectors in each catchment?*)

Causes of Pollution

Main polluting sectors, major polluters (municipalities/enterprises)

Occurrences of large fish kills

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 7: Lakes

Introduction/background information

Current Situation:

How many lakes monitored

Monitoring data for the monitored lakes (*diagrams, N, BOD, for recreational lakes – microbiology*)

Causes of Pollution

some description of main causes

Key Challenges/Issues -

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 8: Coastal Waters

Introduction/ background information

Current Situation

Data on quality of coastal waters:

Characterization of phyto- zoo-plankton

nutrients (N, BOD, etc)

Bathing water quality (*lack of regular monitoring, existing data on microbiological contamination*)

Causes of Pollution

Description/numbers of:

Oil Pollution Incidents

Litter and Unauthorised Dumping on the Coast

Urban Waste Water Discharges –

Industrial Discharges

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 9: Water Use

Introduction/background information

Current Situation

Data on water abstraction, use for different purposes, water losses

Drinking water quality

Description of monitoring (number of samples, map of sampling points, measured parameters,

Monitoring data (for 3 last years)

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 10: Discharges to Waters

Introduction/background information

Current Situation

Most important discharges (*in terms of sensitivity of water object or in terms of hazardous substances discharged*)

Description of level of treatment of discharged waters. Share of treated waters.

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Section 4: Land and Mineral Resources

Chapter 11: Land Use and Soils

Introduction

Current Situation

The way the existing information on land use has been collected. When it stopped. What are future projections.

Land use figures and changes during 1989-2004 (diagrams). (urban territories, different types of agricultural lands, forestry, erosion, loss of soils etc)

Dynamics of coastal erosion

Dynamics of desertification (due to abolishment of irrigation systems) for 1989-2004

Map of soils

Approaches to soil contamination monitoring

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 12: Geohazards

Introduction

Current Situation

General description of geohazards in Georgia

Map of sensitive areas (whole country and regions)

Diagrams showing changes in annual numbers of natural disasters (for 1995-2009)

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 13: Mineral Resources

Introduction

Current Situation

Short description of mineral resources

map of mineral resources

Main environmental problems resulting from mining

Amounts/share of annual use, life expectancy of mines

Geological map of Georgia

Key Challenges/Issues -

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Section 5: Biodiversity and Biological Resources

Chapter 14: Biodiversity

Introduction

Legislative and Policy Framework

International Frameworks and Conventions -

Current Situation -

Habitats

Terrestrial

Wetlands

Inland Waters

Marine and Coastal

Protected Areas

Species

Flora

Lower Plants

Vascular Plants

Fauna

Invertebrates

Fishes

Amphibians

Reptiles

Birds

Mammals

Protected Species -

Key Challenges/Issues

Sectoral Pressures (Fisheries, Agriculture, Forestry, Hunting)

Invasive Alien Species

Loss of Habitats and Species

Chapter 15: Biological Resources Management –

Introduction

Current Situation

Fisheries

Hunting

Forestry

Agriculture

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Section 5: Pressures

Chapter 16: Wastes

Introduction

The Current Situation -

Waste Generation

estimates for:

Municipal Waste

Industrial Waste

Medical Waste -

Data on waste recycling (existing facilities, types and volumes of recycled wastes)

Waste Disposal -

number of landfills, short description

map of existing landfills

Data on existing medical waste incinerators (numbers, capacity, location)

Short description of transboundary of hazardous wastes

Waste Management Infrastructure -

Short explanation of situation with waste collection, transportation, disposal and future plans/projections.

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 17: Chemicals and Other Environmental Issues

Chemicals -

Short information about POPs in the country, undertaken and planned activities with this regards

Consumption of Ozone Depleting Substances -

Radioactivity -

Naturally Occurring Sources of Radioactivity -

Radon

Thoron

Cosmic Radiation

External Gamma Radiation

Occupational

Man-made Sources of Radioactivity

Artificial Radioactivity

Radioactivity Monitoring of the Georgian Environment

Key Challenges/Issues -

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 18: Transport

Introduction:

Importance of transport to the economy

Current situation:

Increase in vehicle numbers, cars, commercial (vans, trucks, busses etc)

Composition and age of national fleet

Numbers using public transport (Busses, metro)

Public transport as a share of overall passenger movement

Freight transport

Use of fuel in transport sector (move from one fuel type to another?)

Main emissions from transport

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Chapter 19: Industry and Energy

Introduction

Importance of Industry as a sector contribution to economy.

Importance of Energy as a sector contribution to economy.

Industry

Current Situation

Main industrial sectors. Trends in production, sectoral changes.

Main pressures of industry on the environment

Air pollution

Waste generation

Surface water pollution

Groundwater pollution

Green house gas emissions

Energy

Current Situation

Main energy generation sectors, sectoral changes.

Energy Balance/Energy efficiency

Main pressures of industry on the environment

Air pollution
Waste generation
Surface water pollution
Groundwater pollution
Green house gas emissions

Key Challenges/Issues

Main issues, our response, its effectiveness, gaps, what needs to be done, what challenges lie ahead.

Section 6: Managing Our Environment

Chapter 20: Environmental Policy and Regulation

Organisational Responsibilities

Funding of Environmental Programmes -

International Co-operation -

Chapter 21: Environmental Permitting and Enforcement

Chapter 22: Research, Education and Awareness Raising

Chapter 23: Main Challenges – Summary