ევროკავშირი
საქართველოსთვის
The European Union for Georgia

EU4CLIMATE

FINAL INCEPTION REPORT (TASK1)

LONG-TERM LOW EMISSION DEVELOPMENT STRATEGY OF GEORGIA

November 6
2020

REC CAUCASUS

This report was produced as part of "Long-Term Low Emission Development Strategy of Georgia".

The content of this report is the sole responsibility of REC Caucasus and does not necessarily reflect the views of the UNDP.

ACRONYMS

RECC	Regional Environmental Centre for Caucasus
ToR	Terms of Reference
NGO	Non-Governmental Organization
MEPA or MoEPA	Ministry of Environmental Protection and Agriculture of Georgia
NEA	LEPL National Environment Agency under the MoEPA
GoG	Government of Georgia
LT-LEDS	Long-Term Low Emission Development Strategy
EU	European Union
AA	Association Agreement between EU and Georgia
PA	Paris Agreement (under the UNFCCC)
UNDP	United Nations Development Program
NDC	Nationally Determined Contribution
INDC	Intended Nationally Determined Contribution
CAP/CSAP	Climate Action Plan/Climate Strategy and Action Plan
UNFCCC	United Nations Framework Convention on Climate Change
IPCC	Intergovernmental Panel on Climate Change
ITF	Integrated Transparency Framework (project)
CC	Climate Change
CCC	Climate Change Council of Georgia
CoM	EU 'Covenant of Mayors' initiative
EC LEDS	Enhancing Capacity for Low Emission Developing Strategy of Georgia
NC	National Communication to the UNFCCC
GHG	Greenhouse gases
BUR	Biennial Update Report (to the UNFCCC)
TL	Team Leader
DTL	Deputy Team Leader
WM	With measures (scenario)
WAM	With additional measures (scenario)
A/R	Afforestation and Reforestation
FM	Forest management

Content of the Report

1.1. Summary of the Assignment 5
1.2 Scope of the Report 5
2. Inception phase activities ..... **Error! Bookmark not defined.**
2.1. Team mobilization 6
2.2. Initial meetings and Identification of information needs 6
2.3. National kick of workshop 7
2.4. Updated methodology 7
2.5.Preparation of detailed Workplan 8
2.6. Preparation of Draft Inception report 8
2.7. Organization of Inception Workshop 8
2.8. Preparation and submission of Final Inception Report 9
3. Implementation phase 9
3.1. Implementation process 9
3.2. Implementation of the assignment. Methodology 10
4. Detailed workplan 26
5. Time frame and deliverables 344
6. Next steps of the assignment 35
7. Activity Plan 36
8. Annexes 367
Annex 1 - Kick-off workshop 37
I. Highlights of Kick-Off Meeting 38
II. Minutes of Kick-Off Meeting 39
Appendices 42
Appendix 1. Kick-Off Meeting Agenda 42
Appendix 2. List of Participants 45
Appendix 3. Kick-Off Meeting Photos 49
Annex 2. Inception Workshop Report 51
I. Highlights of the Inception Workshop 52
II. Minutes of the Inception Workshop 54
Appendices 57
Appendix 4. Inception Workshop Agenda 58
Appendix 5. List of Participants 60
Appendix 6. Photos 65

1. Introduction

1.1. Summary of the Assignment

This Inception Report has been prepared by the team of REC Caucasus (the Consultant) within the assignment "Long-Term Low Emission Development Strategy of Georgia (LT-LEDS)".

The overall goal of the assignment is to assist UNDP and the Ministry of Environmental Protection and Agriculture of Georgia (MEPA) in developing mid-century (long-term) gender-sensitive low emission development strategy (LT- LEDS) of Georgia aiming at supporting the country to fulfil the commitment taken under the Paris Agreement on Climate Change and assisting in environmentally sound, low-carbon and climate-wise long-term planning in the following sectors: Energy, Buildings, Transport, Industry (IPPU), Agriculture, Land-Use, Land-Use Change and Forestry (LULUCF) and Waste.

Georgia's LT-LEDS should be a visionary policy document with strong technical foundations, which will set current state of affairs and identify the most plausible long-term trajectories and pathways for low emission development and decarbonization of the identified and prioritized sectors, taking into account the updated NDC and the Climate Action Plan of Georgia.

LT-LEDS is being implemented under the project EU4Climate, funded by the European Union (EU) and implemented by the United Nations Development Program (UNDP). The Consultancy Contract with RECC is financed by UNDP.

1.2 Scope of the Report

This inception report has been prepared by the REC Caucasus. The inception report describes preparatory works conducted by the REC-Caucasus (RECC) and outlines the implementation/operational plan, including main approach, vision, methodology, detailed time-schedule and staffing plan.

2.. Inception phase activities

Inception phase activities include:

1. Team mobilization
2. Organization of kick-off meeting
3. Review of the intermediate results of relevant national policy documents (NDC, CAP, NCs, BURs, national and sectoral development strategies and plans)
4. Defining scope, structure, vision and workplan for the LT-LEDS Georgia
5. Preparation of updated methodology
6. Preparation of a draft Inception report
7. Organization of an Inception Workshop

8. Preparation and submission of final Inception Report

To date, all the activities of the Inception phase have been conducted.

2.1. Team mobilization

During the first month of the assignment RECC has mobilized the national and international experts as specified in the Staffing Schedule:

National experts:

Ms. Medea Inashvili - Team Leader/ Waste Sector Expert;
Mr. Griogol Lazrievi - Deputy Team Leader/ Agriculture Sector Expert;
Mr. Giorgi Bregadze - Economic Expert;
Mr. Levan Natadze - Building Sector Expert;
Mr. Nikoloz Javshanishvili - Energy Sector Expert;
Mr. Kakha Mdivani - Industry Sector Expert;
Mr. Giorgi Loria - Transport Sector Expert;
Mr. Koba Chiburdanidze – LULUCF Expert

Later on, it was decided to involve a Legal Expert in the Team, responsible for ensuring consistency of the final document (LT LEDS) to the national legislation.

International experts:

Mr. Juan L Martín Ortega - Modelling Expert/ Economic Expert
Ms. Ana D. Pulido - Energy Sector Expert/ Building Sector Expert
Ms. Pepa López - Industry Sector Expert
Mr. Iannis Sempos - LULUCF Sector Expert/ Waste Sector Expert
Later on, Mr. Ioannis Sempos was substituted by Ms. Daniela da Costa who will serve as a Waste Sector Expert, and Ms. Ana D. Pulido's responsibilities were allocated to Mr. Juan L. Martin.

The REC-Caucasus has established project coordination unit (PCU) for the assignment and allocated an office space, with office facilities for the expert team meetings. The technical support is also provided for conducting online platform (zoom/teams) meetings.

2.2. Initial meetings and Identification of information needs

The contract for this assignment came into force on the 1st of September 2020.

At the initial phase, the meeting was organized with the EU4Climate Project Coordinator. During the meeting the detailed work plan on implementation and modality of the LT-LEDS project as well as organization of kick-off workshop were discussed and agreed.

2.3. National kick of workshop

The national kick-off workshop of LT-LEDS was held on 21st of September 2020 via ZOOM Platform, with participation of representatives of UNDP Georgia, MoEPA, RECC project team, other partners and stakeholders.

The aim of the meeting was to familiarize participants with the process, to present methodology, approach and action plan, as well as expected outcomes and to receive feedback from stakeholders. To this end, representatives of governmental and non-governmental organizations, international organizations and independent experts attended the meeting.

The meeting participants agreed about the day-to-day communication lines and the work plan for the inception phase. The agenda, minutes and other details of the kick-off meeting is included in the Report as Annex 1.

2.4. Preparation of updated methodology, tentative structure, vision of the document

The national kick-off workshop was followed by experts' team meeting, with participation of Project Manager, Team Leader, Deputy Team Leader and international experts. Project team discussed in detail the proposed methodology, scope and structure, vision and detailed work plan, and some changes have been made in the methodology. Specifically:

Time frame:

The Project duration is 12 months, from the 1st of September 2020 to the 1st September of 2021. During the internal consultations at the Project Team meeting, the international experts, responsible for calculation of baseline and mitigation pathways by using the TIMES model, indicated that the timespan for this task (Task 2), allocated in the proposal, was too tight and the deadline (9th December 2020) for the corresponding deliverable (Report on baseline scenario(s) and LED pathways) is quite challenging to meet. The team proposed to prolong the timespan for the Task 2 and shift the corresponding deadlines for the deliverables so that the date of submission of the final deliverable won't be altered (final draft for approval) and the deliverable will be submitted by the **20th of August** 2021.

The deviation from the originally set schedule is justified by the fact that there are quite large number of selected sectors (with corresponding number of experts) for the LEDS, as well as long-term period for the Strategy, (that is to be divided into decades to ensure consistency with changeable reality and drivers for projection), in addition, more than one scenario for both baseline and mitigation are to be developed; Sector-specific projections are envisaged to be conducted separately, with further integration into the TIMES model, for some sectors.

12-month timeframe will enable the Project team to take in consideration the most important national policy documents: Georgia's Updated NDC and Climate Action Plan (CAP) (being converted into the

Climate Strategy and Action Plan (CSAP) are at the pre-publishing state and expected by the end of the 2020. This timeframe for the Project activity is reflected in the detailed workplan (para 2.5 below).

Project planning cycle: The initial stage of the assignment also involves defining planning cycles. As the LT-LEDS embrace a long-term period from 2020-to 2050 It was decided that

- the document LT-LEDS will enclose decades (2020-2030, 2030-2040 and 2040-2050),
- the strategy for the nearest decade 2020-2030 should follow the path identified by Georgia's updated NDC (and corresponding SCAP, comprising CAP for 2020-2023 and Climate Strategy for 2020-2030),
- the whole document should be subject to iterative process of monitoring and update periodically in parallel with national NDC-updating and Global Stocktaking processes.

2.5. Preparation of detailed Workplan

Based on the updated timeframe of the Project implementation, a detailed Workplan has been developed. It is presented in paragraph 4 below.

2.6. Preparation of the Draft Inception Report

The updated methodology including tentative scope and structure of the document, vision and the detailed workplan have served as a base for a Draft Inception Report that was prepared by mid-October. Key concepts and issues have been considered inside the Team and agreed with MoEPA and UNDP, and the final version elaborated for the Inception Workshop.

2.7. Organization of an Inception Workshop

The Inception Workshop was organized and held on the 6th of November 2020, on-line. The Workshop aimed at presenting the key concepts of the Draft Inception Report and seeking the stakeholders' advice on a few key issues: base year of the assessment, number of baseline and mitigation scenarios, selected sectors and sources of GHGs, scope and structure of the document and a long-term vision. The workshop have been attended by wide range of stakeholders who actively participated in consideration of the presented issues. The discussion concerned also the scope of relevant national policy documents, including sectoral strategies and action plans, and consistency of the LT LEDS to them; the process and periodicity of monitoring and update of the LT LEDS and its relation with NDC updating cycle.

The Agenda, minutes and other details of the Inception Workshop are provided in the Annex 2 of this Report.

2.8. Preparation and submission of the final Inception Report

The suggestions and advice received from the stakeholders/attendees of the Workshop have been analyzed and reflected in the Final Inception Report (present paper).

3. Implementation phase (Core/proper body of the Final Inception Report)

3.1. Implementation process

The assignment consists of five tasks to be implemented:

TASK 1: Define scope, structure, vision and work plan for the LT-LEDS of Georgia
TASK 2: Develop Baseline and Low-emission Development Pathways for Selected Sectors through Qualitative and Quantitative Assessments
TASK 3: Determining the Prioritized Mitigation Actions/Measures in the Different Sectors
TASK 4: Identifying Financial Options (Financial Strategy)
TASK 5: Stakeholders Consultation for LEDS Development, Validation and Approval

Implementation of this assignment will be realized as a sequence of 9 steps demonstrated in the diagram below.

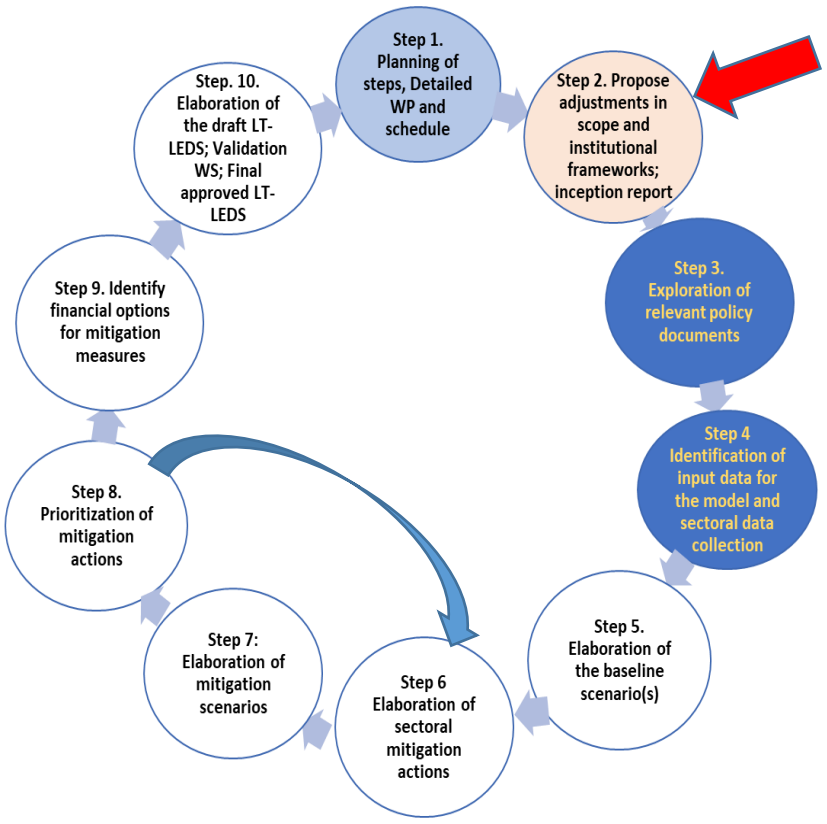


Fig. 1. Project implementation steps. Present step (red arrow), ongoing steps (dark blue circles), and potential iteration (blue arrow).

3.2. Methodology for the implementation of the Assignment

Implementation of the TASK 1: Define scope, structure, vision and work plan for the LT-LEDS of Georgia

3.2.1. Stakeholders' engagement

The assignment implies close involvement of stakeholders in the process of elaboration of the LT LEDS document. Identification of stakeholders' engagement strategy for the whole LT-LEDS design process represents the *Activity 1.1* of the Task 1.

Stakeholders' engagement has been identified with consideration of the following aspects:

Level – national and sub-national (municipal),
Specificity – general and specific (technical) stakeholders,
Way (method) – interviews, consultations, stakeholders' consultation workshop, national validation workshop.

Involvement of municipal stakeholders is conditioned by increasing popularity of the EU Covenant of Mayors initiative in Georgia that may add 'municipal component' to the mitigation potential, and on the other hand, will equip the signatory municipalities with national strategic vision of low emission development.

The specificity implies the difference between general stakeholders, involved in the entire process of the LT LEDS design, and the additional stakeholders, involved for consideration of specific, technical issues.

General stakeholders may comprise:

- main (key) relevant stakeholders (e.g. ministries, NGOs, institutions, agencies)
- sector-specific key organizations (in the selected sectors).

Identification of main relevant stakeholders (e.g. ministries, NGOs, universities, etc.) and key organizations in the pre-defined key sectors (energy, transport, building, industry, agriculture, waste and LULUCF) will be conducted by the sectoral experts for their respective sectors, providing the results to the TL and DTL for consolidation and integration into the preliminary general list of stakeholders (Table 1 below). In general, for each consultation workshop, aimed at consideration of deliverables, relevant stakeholders will be selected based on the list of key stakeholders and the relevance to the subject(s) of consideration.

Table 1. Preliminary list of main (key) stakeholders

#	Stakeholders
1	MEPA (CC unit, Forestry Policy and Forest management departments)
2	MESD (Energy unit)
3	MRDI (Road transport dep., LEPL Waste management Company),
4	Industries
5	Georgian Water and Power (GWP)
6	CSOs (EEC, WEG, RECC, Remissia, CENN, Green Alternative, Georgian Greens, NACRES)
7	LEPL NEA (under the MoEPA)
8	National CC experts
9	EU4Climate project team
10	UNDP Georgia and UNDP Georgia gender focal point
11	IFIs (EBRD, ADB, KfW, WB)
12	IOs (UNDP, GIZ, USAID, FAO)
13	CSOs working on gender-related issues

3.2.2. Institutional framework

Institutional framework and coordination mechanisms to ensure successful development and implementation of the LT-LEDS (Task 1 *Activity 1.4*) has been developed based on the Project's specific (outline, team) and national circumstances of Georgia. Presented in the chart below, it has been considered and agreed among the wide range of stakeholders at the Inception Workshop:

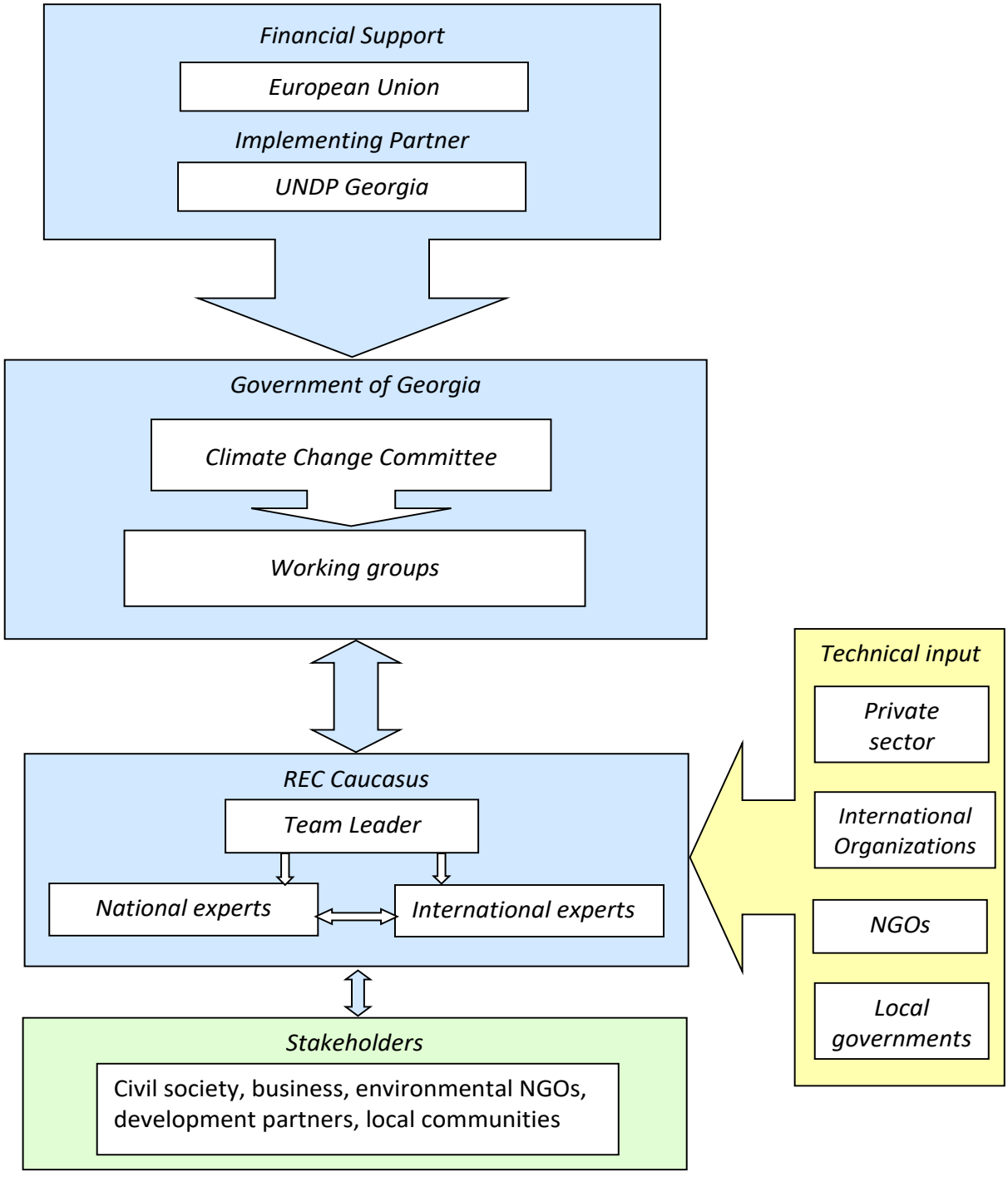


Fig.2. Institutional arrangement for the Project implementation

3.2.3. National policy documents to be reviewed

All national climate policy related documents will be reviewed and juxtaposed for use as basis for development of LT-LEDS. The Task 1 *Activity 1.2* implies an in-depth review of the existing relevant strategies, plans and programs to derive early lessons and insights on experiences, challenges, and approaches adopted in the preparation of national climate change strategies and LEDS.

Considering the unique attribute of a LEDS to be integrated in development and climate change planning, the following criteria will be applied to help to assess the extent to which the national climate change strategies and policy documents are integrated in the development and planning:

- the extent to which the climate change strategy relates to development plans;
- the extent to which different sectors and policymakers are involved in preparing the strategy; and
- the extent to which policy priorities are incorporated into the national budget or aligned with other sources of financial support.

The following key policy documents have been selected as the most relevant for the LT LEDS to build on: Georgia's updated NDC, Georgia's Climate and Energy Action Plan (CSAP), Georgia's 4th National Communication, Georgia's latest GHG Inventory and Biennial Update Report (Second BUR), EC LEDS (for 2030), NEAP3. This list will be supplemented with national sectoral policy documents, relevant to Climate Change.

The reason of this choice is based on the following considerations:

Georgia as a Non-Annex I Party is taking new commitments of GHGs emissions reduction by developing updated Nationally Determined Contribution (INDC)[1]. Georgia intends to unconditionally limit its total GHG emissions by 35-40% for 2030 compared to level of 1990. in case the global greenhouse gas emissions follow the 2 degrees or 1.5 degrees scenarios, respectively the mitigation target could be increased to 50-57% of its total greenhouse gas emissions by 2030 compared to 1990 with the international support. Also, the Association Agreement between the EU and Georgia confirms the importance of the readiness of the country to join the EU ambitious goal related to climate change mitigation by taking Georgia's circumstances in consideration. Accordingly, it is highly expected that these international activities facilitate the GHG abatement policy implementation in Georgia. The document is at the final stage of public consultations.

In order to implement the NDC, the elaboration of "Climate Action Plan 2021-2022" (CAP) has launched from the year of 2017. Later, the document was complemented with strategic part involving 2020-2030 strategy and 2020-2023 Action Plan and, as a CSAP, is at the final stage of public consultations. The CSAP covers the economic sectors that have a high contribution to the national GHG emissions, including transport, energy, residential (building), agriculture, waste and forestry sectors. The sectoral approach aims to identify the individual sectors contributing capacity towards mitigation and fulfilling the national climate goals. The draft version of CAP offers mitigation measures for upcoming three

[1] In 2013, at Warsaw Climate Change Conference, Parties agreed to prepare their intended nationally determined contributions in order to contribute in GHG abatement joint effort (Höhne, et al., 2014).

years with indication of both national budget (unconditional) and donor support (conditional). The national targets, identified in the Updated NDC will serve as indicative goals for GHG mitigation projections in future updated CAPs, and the mitigation projections under the LT LEDS project will build on the present CAP 2020-2023 outcomes.

The five years project "Enhancing Capacity for Low Development Strategies EC-LEDS Clean Energy Program" was completed in 2017 and the draft version of Low Emission Development Strategy for Georgia has been delivered. The document considers mitigation strategies for economic sectors including energy, transport, buildings, agriculture, industry, waste and forestry. Although the work on the LEDS (aimed at 2030) was completed after the submission of INDC, the baseline scenario of GHG emissions there doesn't match with the INDC baseline. However, the EC LEDS document is an important source for sectoral policies and measures for GHG mitigation that are still relevant.

Furthermore, the Third National Environment Action Program (NEAP3) of Georgia sets out the climate change policy targets, including (1) Creation of prerequisites for greenhouse gas emission reduction; (2) increase of the adaptive capacity of the country; and (3) Implementation of the reporting obligations under the UNFCCC;

Georgia's 4th National Communication to the UNFCCC together with the National GHG Inventory and the 2nd Biennial Update Report (NC4&SBUR) are also at the pre-publishing stage (SBUR and GHGI are already ready). They will provide the estimates of sectoral GHG emissions since the base (1990) year, as well as description of sectors and sectoral policies and measures. The NC4 and SBUR are at the final stage of public consultations.

In order to achieve high level of accuracy and completeness during the critical overview of policy documents, along with climate-related decisions and documents, relevant sectoral policy documents, strategy and action plans will also be reviewed by sectoral experts, including National Energy Efficiency Action Plan, National Renewable Energy Action Plan, Energy Community Treaty, Agriculture Development Strategy 2015-2020, National Energy and Climate Plan (NECP); Regional Development Strategy, Rule of Planning, Monitoring and Evaluation of the Policy Documents in Georgia. Some of these documents are still under development, however, consultations (interviews) with relevant sectoral stakeholders, envisaged under the Task 1, will complete the sectoral experts' understanding of current directions, tendencies and planned activities in the sectors. Technologies envisaged for implementation of sectoral strategies and policies should be among the most important subjects of the interviews with the stakeholders. Report on the results and analysis of the interviews, as one of the deliverables from the national sectoral experts, will contribute to further steps of identification and prioritization of mitigation measures.

3.2.4. The scope and structure of the LT-LEDS document

The scope and structure of the LT-LEDS document (Task 1, *Activity 1.3*), proposed in the TOR of the Assignment (presented below), has been considered at the Inception Workshop and accepted, in general, by the stakeholders. It was agreed that a paragraph for sectoral vision will be added in each sectoral chapter, and an overall long-term vision will be included in the general part of the document as well.

1. **Overview and process for developing the LT LEDS**
   - Executive Summary
   - Situation Analyses
   - Legal and policy context
   - Public consultation

2. **International and National context (global, EU, Georgia)**
   - The path toward greenhouse gas emission reduction for the period of 2050
   - Transformation of the economy and society by 2050
   - Description of the pathway up to 2050
   - Promoting climate action at all levels

3. **Total GHG emission reductions and enhancements of removals by sinks**
   - Projected emission reductions and enhancement of removals by2050
   - National target for 2030 (in alignment with the Updated NDC and the Climate Action Plan of Georgia) and beyond, (if available) and indicative milestones for 2040 and 2050.

4. **Sectoral Priorities (Targets and measures)**
   - Long-term climate action in energy sector
     - Initial situation and policy analysis
     - GHG emissions profile
     - To extent feasible, the estimated likely share of GHG emissions of the sector in 2050
     - Intended or likely future emissions trajectory or range
     - Guiding principle for 2050 and transformation pathway
     - Milestones for 2030
     - Potential Measures
   - Long-term climate action in transport sector
     - Initial situation and policy analysis
     - GHG emissions profile
     - To extent feasible, the estimated likely share of GHG emissions of the sector in 2050
     - Intended or likely future emissions trajectory or range
     - Guiding principle for 2050 and transformation pathway
     - Milestones for 2030
     - Potential Measures
   - Long-term climate action in building sector
     - Initial situation and policy analysis
     - GHG emissions profile
     - To extent feasible, the estimated likely share of GHG emissions of the sector in 2050
     - Intended or likely future emissions trajectory or range
     - Guiding principle for 2050 and transformation pathway
     - Milestones for 2030
     - Potential Measures

- Long-term climate action in industry sector
  - Initial situation and policy analysis
  - GHG emissions profile
  - To extent feasible, the estimated likely share of GHG emissions of the sector in 2050
  - Intended or likely future emissions trajectory or range
  - Guiding principle for 2050 and transformation pathway
  - Milestones for 2030
  - Potential measures
- Long-term climate action in agriculture sector
- Initial situation and policy analysis
  - GHG emissions profile
  - To extent feasible, the estimated likely share of GHG emissions of the sector in 2050
  - Intended or likely future emissions trajectory or range
  - Guiding principle for 2050 and transformation pathway
  - Milestones for 2030
  - Potential Measures
- Long-term climate action in Land use, land-use change and forestry (LULUCF)
  - Initial situation and policy analysis
  - GHG emissions profile
  - To extent feasible, the estimated likely share of GHG emissions of the sector in 2050
  - Intended or likely future emissions trajectory or range
  - Guiding principle for 2050 and transformation pathway
  - Milestones for 2030
  - Potential Measures
- Long-term climate action in waste sector
  - Initial situation and policy analysis
  - GHG emissions profile
  - To extent feasible, the estimated likely share of GHG emissions of the sector in 2050
  - Intended or likely future emissions trajectory or range
  - Guiding principle for 2050 and transformation pathway
  - Milestones for 2030
  - Potential Measures

5. **Financing**
   - Estimates of investments needed (refer to TASK 4 below)

6. **Implementing and updating the LT LEDS (MRV process)**

7. **Details on modelling (including assumptions) and/or analysis, indicators, etc.**
   - Details on modelling (including assumptions) and/or analysis, indicators, etc.

However, this scope and structure of Georgian LT-LEDS may be subject to adjustments in the course of the Project implementation, based on stakeholders' consultations and meetings around drafted

deliverables and in order to ensure consistency of the structure and format of the document with national legislation.

In case of need of any adjustments to the scope and structure of Georgian LT-LEDS, they will be incorporated in close cooperation and involvement of UNDP and the MoEPA.

Final structure will be explored for consistency with the requirements of Decree #629 of the Government of Georgia dated 20 December, 2019 on rule of Planning, Monitoring and Evaluation of the policy documents, in order to eliminate the risk of mismatches with national legislation, the more so that the supreme international decision on the content of LT-LEDS document does not exist. A legal and policy expert (to be joined to the Team) will be responsible for the consistency of the document with national legislation.

3.2.5. Detailed Workplan

The detailed work plan for the implementation of the Project activities (Task 1, *Activity 1.5*), with corresponding timespans (Table 2) and distribution of the work among the responsible experts (Table 3) is presented below (see para 5).

3.2.6. Long-term vision, strategic goals and objectives (Task 1, *Activity 1.5*)

The purpose for the LT LEDS is to ensure well-planned, steady and smooth transition to low-emission and sustainable path for economic and social development. It is envisaged as a forward-looking plan of actions focusing on achieving a mid-century quantitative target for national GHG emission reduction.

Project Team aims at creation of a sound, viable and reliable document that will/can be integrated in national development policy; To ensure this, the Project implementation is based on the following principles:

- Build on the existing policy documents
- Align with and complement / assist the ongoing relevant activities (NDC, CAP/CSAP)
- Promote Capacity building of national CC and sectoral staff
- Ensuring Sustainability of the results
- Parallel work of sectoral experts
- Coordinated interconnections inside the Team (intersectoral) and vertically
- Consider gender dimension
- Involvement of stakeholders
- Close cooperation with MEPA and UNDP
- Ensure timeliness and high quality of the outcomes, and efficiency in the existing extraordinary conditions of the pandemic crisis.

The approach

- The LT LEDS will set a range of national GHG emission reduction by 2050, reflecting 'with measures' (WM) or 'unconditional' and 'with additional measures' (WAM) or 'conditional' scenarios, and thus provide tentative indicators for GHG emission reduction for the CC policy and measures, conducted in the country throughout the years 2020-2050;
- The LT-LEDS will establish milestones for LED and is subject to update from time to time, in parallel with and taking in consideration the NDCs, CSAPs and/or other policy documents adopted by the UNFCCC in future, if any, including the outcomes of Global Stocktaking (MRV process);
- The LT-LEDS should provide more than one scenario for baseline and mitigation GHGs (at least, pessimistic and optimistic scenarios for baseline and 'with measures'(WM) and 'with additional measures' (WAM) scenarios for mitigation pathways) due to changeable circumstances;
- Innovations and good international practices are to be encouraged in the mitigation actions, however, with consideration of the country specifics and practical viability, including introduction of their respective technologies.

Vision

Long-term vision is essential for strategic planning in order to determine the direction for the planned activity. For the LT LEDS, the overall target will be identified based on analysis of cumulative mitigation potential and corresponding activities in economic sectors, and modified periodically via monitoring and evaluation in certain steps of implementation. It will serve as a pharos to aim at, in the course of the LT-LEDS implementation.

Based on preliminary assessment and the updated NDC figures for 2030, Georgia envisages reduction of its mid-century GHG emissions to, at least, 70% below the base year (1990) emissions assuming that there won't be barriers in undertaking technological innovation in all sectors.

The LT LEDS envisages three different visions for the upcoming decades (2020-2030, 2030-2040, 2040-2050). Thus,

I. For the 2020-2030 period of time:

1. The Strategy will follow the updated NDC path and targets for 2030 (35 % unconditionally, 50-57% conditionally, with international support, corresponding to the 2 degrees or 1.5 degrees scenarios respectively). However, Georgia will try to strengthen efforts aiming at peaking the emissions till 2030, exploring possibilities of adding more conditional measures;
2. To make foundation for faster effects in the next decade, the Strategy will identify technology needs for each sector, to create a basis for technologic transformation of the sectors – introduction of new technologies. Based on that, Georgia will create a regulatory base for technological innovation for all sectors, envisaging all components ensuring introduction and implementation of the innovative technologies (enabling environment, actors and services), and enhance the process for technology introduction.

II. **For 2030-2040:**

Based on enhanced process of introduction and implementation of new technologies, the GHG emission reduction is envisaged to be in the range of 40-41%, 55-57% and 60-62% below the base year figure for unconditional and conditional 2^{o} and 1.5^{o} development scenarios, respectively; with enhanced A/R these figures may be increased.

III. **For 2030-2050:** the emission reduction is expected to be 55-57%, 64-66 % and 70-72 % below the base year figure for unconditional, and conditional 2^{o} and 1.5^{o} scenarios, respectively; with enhanced Afforestation/Reforestation (A/R) and forest management (FM) these figures may be increased.

Targets for every next period as well as the mid-century target will be subject to revision based on
a) monitoring of the implementation in previous period,
b) actual updated NDC figures and
c) the results of corresponding Global Stocktaking with consequent changes in Global CC policy.

Sectoral visions will be provided by the corresponding sectoral experts in the final LT LEDS document, based on analysis of development perspectives and mitigation potential of the sectors. *Consequently, the overall vision will be determined based on sectoral figures.*

Implementation of Task 2: Develop Baseline and Low-emission Development Pathways for Selected Sectors through Qualitative and Quantitative Assessments

The project team will be working together with the International experts to identify low emissions pathways and priorities and to convey qualitative and quantitative assessments to develop baseline scenario(s) and intended future emission reduction trajectories / pathways to achieve Georgian LT-LEDS vision per each sector for the period 2020 to 2050 taking into account national guidelines for policy and strategy document development and other national and sectoral mid-term 2030 targets.

The exercise of developing baseline scenarios and future low-emission trajectories / pathways will be carried out in close consultations with sectoral experts and stakeholders.

Activities to be carried out by the sectoral experts under this task are:

- Identification of national data for each sector, according to the modeling tool to be applied for calculations (projections),
- Data collection,
- Interviews with the stakeholders: on sectoral development, plans, tendencies, technology, GHG mitigation potential and perspectives,
- Identification of sectoral visions,
- Calculation of GHG emissions by baseline and mitigation scenarios.

The analysis of the information, presented in closely related to climate policy documents such as updated NDC, Climate Action Plan of Georgia (CAP)/Climate Strategy and Action Plan (CSAP), LEDS 2030, latest National Communication (NC4), GHG inventory and Biennial Update Report (SBUR), conducted by the experts, is essential for identification of baseline and gives opportunity to hold the process in an effective mode through identification of information on the country specific conditions and possible alternative scenarios.

Interviews with thoroughly selected relevant stakeholders and analysis of their outcomes will help the sectoral experts to determine possible perspectives and mitigation opportunities of their specific sectors by the mid-century. This information will serve as a base for identification of main parameters for both baseline and mitigation scenarios for their respective sectors, as well as for setting sectoral long-term vision.

Main documents to build on the scenarios are the updated NDC and CSAP, giving quantitative indicators for the next decade (2020-2030).

The updated NDC includes three different GHG emission reduction pathways, including one unconditional commitment (35% emission reduction comparing to the 1990 level) and two conditional commitments following 2 degree and 1.5-degree scenarios.

The draft CAP (for 2020-2023) under the Climate Strategy and Action Plan (CSAP, with Strategy for 2020-2030) provides mitigation activity packages for both conditional and unconditional commitments for 7 different economic sectors, including energy generation and transmission, transport, buildings, industry, waste, agriculture, and LULUCF. This sectoral division is fully consistent to the sectors identified for the LT-LEDS. Nevertheless, as the CSAP is subject to update periodically, the packages are limited in time. The LT LEDS will build on the estimates provided in these documents and ensure consistency with their periodic updates along with Global Stocktake process.

Regarding the baseline and emission reduction pathways, in inner consultations with the team it was decided and agreed at the Inception Workshop) that:

- Base year will be 2016,
- The projection time will be divided into decades, till 2050,
- The updated NDC (for 2020-2030) targets will be taken for indicative target for the 2020-2030 decade,
- The actual CAP (for 2020-2023) projections will be used as a basis for the baseline scenarios,
- Data collection for each sector will be conducted by the corresponding sectoral (national) experts based on the list of necessary input data for projections by respective sector-relevant modeling tool,
- Corresponding drivers (main drivers: population, GDP and sector-relevant additional drivers, if any) will be used for decade-long projections for sectors,
- Energy sector will be estimated using the TIMES model, modified for Georgia's specific (TIMES Georgia tool) and will embrace also transport and buildings (residential) sectors,

- Waste sector will be projected using the IPCC Waste model (for solid waste), while for LULUCF the FAO EX-ACT modelling tool will be used,
- TIMES model will incorporate all the sectors' projections (for baseline and mitigation scenarios, calculated outside the TIMES, by using their respective sector-specific modeling tools) to make overall projections adding economic dimension to the emission trajectories,

Based on the country specifics (changeable conditions, unstable trends of the main drivers etc.), also due to the long-term estimation timespan of the document, the Team is intending to develop two scenarios for baseline (pessimistic and optimistic) and two scenarios for mitigation pathways (with measures (WM) and with additional measures (WAM)) to be consistent with the model specifications from one side and Georgia's case with differentiation of unconditional and conditional mitigation actions (in NDC and CAP/CSAP). Conditional scenarios (WAM) may be two: corresponding to 2^{o} and 1.5^{o} C development pathways, implying the global tendencies regarding the PA commitments.

These scenarios and pathways will be presented to and discussed with the Climate Change Council of Georgia.

The project's national and international experts' team will support Climate Change Division at MoEPA in understanding and considering the link between the NDC and the LT-LEDS, as well as in adapting their climate planning processes to ensure that the NDC updating process can be informed by and aligned with the LT-LEDS.

Assumptions and consistency of LEDS-NDC-CAP updating process: The mitigation commitments of actual updated NDC was built on assumptions on the population projections, GDP growth and other sectoral developments. All of the assumptions accepted and approved by the government will be used as building blocks in the design of LT-LEDS for the first upcoming decade. The Project Team will have a close collaboration with Climate Change Division and share with them all necessary materials including information notes and infographics, transparently presenting the information and clearly explain the correspondence between the policy papers and LT-LEDS during the assignment. Further update of the documents, based on the PA periodicity (updating NDC and corresponding CAP, according to Global Stocktake process) will /should be thoroughly inter-coordinated and consolidated in order to ensure consistency in calculations and viability of the policies to achieve the target. Iterative process envisaged for the LT LEDS (via MRV process) will ensure keeping the projections realistic and the policy consolidated among different documents.

Capacity building: The MEPA with its Climate Change Division is planning to increase its capacity on use of TIMES model in upcoming years through the support of NDC partnership. The Climate Action Enhancement Package (CAEP) assists Georgia, member of the NDC Partnership, in establishing TIMES tool during the NDC implementation, covering the following training activities: 1) TIMES tool calibration; 2) Managing Scenarios in ANSWER and Submitting a Model Run; 3) Adjusting the Load Duration Curve; 4) Forecasting Demands; 5) Development of reference and alternate scenarios; 6) Running the model and results analysis. Purchase of the TIMES model software package and elaboration of the country-specific TIMES Georgia version together with training of Georgian experts in using it, will considerably increase the country's technical capacity to make projections for energy-related sectors via the same tool in the future activities.

Implementation of Task 3: Determining the Prioritized Mitigation Actions/Measures in the Different Sectors

Performing this task, the main objective will be to agree and validate with the relevant stakeholders/experts in the different sectors and with the Climate Change Council of Georgia the prioritized mitigation pathways and actions/measures based on the modelling outputs and the prioritization methodology to be proposed and agreed upon. This task will be undertaken though the following steps:

Activity 3.1 The project team will coordinate a stakeholder consultation with different sectors including Energy, Buildings, Industry, Transport, Agriculture, Land Use, Land-Use Change and Forestry, Waste. The objectives of this consultation will be to:

- Present the main outputs of the modelled sectoral scenarios/pathways and agree upon the necessary modifications for the selected low-emission development pathways (if any) with the stakeholders and Climate Council of Georgia.
- Discuss the different plausible measures required to assist the implementation of the various modelled mitigation trajectories/ pathways.
- Discuss the prioritization criteria required to set the time plan for the implementation of the mitigation actions/measures included in low-emission development pathways.
- Discuss the nationally prioritized mitigation actions in all sectors, the chosen policy instruments, and the potential interactions.

To conduct these activities the Project team will, in advance, identify prioritization criteria for the mitigation measures. Inner consultations for developing preliminary set of criteria, with ranking, for prioritization of mitigation actions are conducted. Each sectoral expert will lead this activity for his/her respective sector, however, there may also be some common criteria e.g. mitigation potential of the measures.

The Stakeholders' consultation workshops are to be held for all sectors, separately, one by one or in groups of sectors. The most relevant stakeholders for each sector will participate in discussions. The sectoral experts will present for discussion:

1) the preliminary set of prioritization actions to relevant stakeholder, to identify final set of criteria for prioritization of mitigation actions,
2) the main outputs of the modelled sectoral scenarios/pathways, and agree upon the necessary modifications (if any) for the selected low-emission development pathways.

Activity 3.2 After the stakeholders' consultation, the team will address the comments raised, and re-quantify the GHG emission reduction potential of the potential mitigation actions. The team will also analyze the inter-sectoral policy synergies and trade-offs in addition to the potential cross sectoral policy interactions. Sectoral experts will closely cooperate with the modelling expert(s) to implement this activity to ensure reasonable and rational corrections in the projections.

Activity 3.3. Building upon the results of the consultations with stakeholders and the Climate Council of Georgia, the consultant will then re-visit the mitigation scenarios/ pathways and measures and recalculate the projections.

The assumptions, alternative mitigation activity packages, methods and indicators are all subject to agreement with key stakeholders including ministries and municipality city halls - members of the Climate Change Council Coordination Group, and leading organizations operating in energy, building, industry, agriculture, LULUCF, waste and transport sectors.

Implementation of Task 4: Identifying Financial Options (Financial Strategy)

At the stage of this implementation, when the prioritized mitigation actions are already identified, enabling to achieve the desired target in the projections, the sectoral experts and Economic Sector Expert will work together with the LT-LEDS key stakeholders groups to assess the acceptable financial options required to implement the prioritized mitigation measures and determine which actions can be financed through national sources, and which will require international support. The assessment will include both the technology cost and the implementation cost, define priorities and time- sequencing of the investments proposed in each sector.

To estimate the costs of mitigation actions, the entire chains of the actions are to be assessed. The costs will cover the following elements, at the extent possible for each sector: investment costs, costs for technologies, for operations and maintenance, for natural resources used, for imported material, revenue for exported products, costs for energy consumed, taxes.

When estimating the costs of mitigation actions, some possible combinations of actions of the same sector and/or intersectoral connections should be taken in consideration as well. Thus, this activity will be undertaken in close cooperation of the economic and sectoral experts, involving key stakeholder groups.

The outputs of the financial analysis will be estimated cost and time horizon for implementation of individual mitigation activity packages for each scenario.

As an additional output the domestic market capacity on climate friendly technologies will be also assessed.

MRV system[2]: Monitoring, Reporting and Verification system for implementing, tracking progress and updating the LT-LEDS will be designed and reflected in the corresponding chapter of the LT LEDS document (see the structure of the LT LEDS above).

The MRV system for LT LEDS will aim at:

- Identification of relevant indicators and establishing the appropriate data collection systems for tracking progress and updating the LT LEDS.
- Monitoring the evolution of the GHG emissions, enabling the comparison with emission levels

of previous years and the baseline without/outside the LT LEDS.
- Monitoring progress of mitigation measures included in LT LEDS by sector.
- Monitoring progress towards the achievement of mitigation targets, set.
- Verifying the data provided/collected.
- Verifying the calculations made, using the tools and guidelines of the MRV system.
- Verifying the reports developed with the information contained in the MRV system.
- Reporting high-quality information to donors, public entities and general public on LT-LEDS.

MRV system is an essential part of the LT LEDS iteration process described above for tracking and updating the LT LEDS periodically, according to the UNFCCC and PA requirements regarding update of NDC and corresponding CAP. In addition, MRV will enhance transparency of the information availabl[2]e on the GHG emission impact and the efforts made to reduce it; inform donors, in a standardized way, of the needs when achieving the low carbon vision and increase their confidence; to quantify the benefits of specific actions that result in GHG emissions reductions and in other co-benefits; track progress at reducing emissions and provide a basis for updating the pathways, developing further additional mitigation actions over time and setting goals and targets for future progressively more ambitious commitments on targets and emission reductions.

The MRV system of the LT LEDS will comprise:

- Georgia's Rule on Guidelines and Processes for Monitoring, Reporting and Verification.
- An Institutional system with detailed roles and responsibilities.
- Tools and templates for facilitating the calculations, the obtention of results, the production of reports and the verification.
- The time spent in developing an MRV system for LT LEDS will reduce future workload and will set the ground for increasing transparency and confidence.

Accountability on the GHG emission reductions and the procedures of the MRV system will follow internationally recognized GHG accounting, reporting and verification principles making thus a more compelling case for accessing local and international climate financing for implementing the actions of LT-LEDS.

One of the important issues to be addressed when operationalizing MRV is the provision of methodological and technical guidelines. Methods to measure, report, and verify information differ based on what is assessed and at what level. In some cases, such as MRV of GHG effects from mitigation projects, a variety of methods may be available for use; in other instances, such as building national inventories, there is only one internationally accepted method, that is, the IPCC Guidelines. Methods and tools exist for undertaking MRV (e.g., of emissions or emissions

[2] The term *Measurement* is used instead of *Monitoring* in the decisions of the Conference of the Parties of the United Nations Framework Convention of Climate Change (UNFCCC). However, monitoring is a wider concept which encompass the estimation of GHG emissions and the monitoring of progress of this emission levels, as it is recognized in other frameworks in place at international level as the European Monitoring Mechanism.

reductions) at different levels. Available methods may need to be customized or new methods may have to be developed to suit the particular needs of the LT LEDS and the national circumstances.

From a technical point of view, the work will be organized in the three components of the MRV system, considering all elements needed for its operationalization such as:

- The development of the guidelines and processes for Monitoring, Reporting and Verification of GHG emission levels and GHG emission reductions.
- The development of a proposal of institutional system for the functioning of the MRV system.
- The development of tools and templates for facilitating the calculations, the obtainment of results, the production of reports and the verification activities.

Implementation of Task 5: Stakeholders Consultation for LEDS Development, Validation and Approval

The Project design implies crucial role of stakeholders in the process of LT LEDS elaboration and envisages a series of stakeholder consultation workshops, including:

- LT-LEDS development kick-off workshop,
- Inception workshop,
- Consultation and validation workshops during the LT-LEDS development process for practically each deliverable,
- Final wide-range National Validation workshop to gather all the LT-LEDS stakeholders and present the final proposed LT-LEDS.

Practically, drafts of each deliverable, envisaged under the Project, shall be considered in the consultation meetings and the comments and suggestions reflected in the final version. At the final stage, the draft of the LT-LEDS document will be elaborated and presented at the national validation workshop before a wide audience of stakeholders for consideration, and the draft copies having sent to them in advance, and the final document, resulting from the consultation meeting, reflecting the comments and suggestions from it, will be issued, and a copy sent to all relevant entities / stakeholders and the Climate Change Council of Georgia for endorsement.

The results of stakeholder analysis allow to define the appropriate strategy for engagement of groups of stakeholders (defined in the Activity 1.1, see above). It may be based on their level of interest and influence on processes, including qualification. Deeper and closer communication strategy will be offered to the key stakeholders with high level of interest and influence.

The sub-national level of engagement in development of mitigation actions packages in Energy, Industry, Agriculture, Building, Transport, LULUCF and Waste sectors will enrich the LT LEDS with on-ground initiatives and alignments with sustainable energy and climate actions plans (SECAPs). The GHG emission reduction activity of the EU CoM East signatory municipalities plays an important role in the national CC mitigation policy of Georgia and it was reflected in Georgia's EC LEDS (2030). This activity is supported by the Government of Georgia, and a Coordination Group in the CCC has

recently been created for coordination of the CoM signatories' activities for 2020-2030. There is an opportunity to use ongoing ITF project municipal focal point for receiving local data necessary for developing baseline and alternative mitigation scenarios.

Moreover, a blend of instruments and activities will be selected and agreed on with UNDP and MEPA in order to outreach to a multi-stakeholder audience and create an environment, supporting achievement of the results efficiently. Along with workshops, various forms of consultation with stakeholders are envisaged in different stages of the Project implementation, such as interviews and inner meetings. Selection of stakeholders for each event will be conditioned by level of their relevance to the subjects of the agenda of the event, qualification and competence. The Project Team will moderate the events and discussions and ensure the comments and suggestions be taken into account and reflected in the outcome version of the considered document.

4. Updated work plan

During the inception phase, the consultant updated work program and introduced to the broad spectrum of stakeholders with the detailed methodology during the Inception National Workshop.

Detailed Workplan for the Project implementation encompasses main tasks and activities identified in the Project TOR; However, the process and stages of preparation of the LT LEDS document according to the proposed (tentative) scope is outlined in a separate table, indicating the distribution of the work among the Project Team members by parts of the scope (chapters and paragraphs) and responsibilities.

Table 2: Detailed Work Plan for implementation of the Project activities

Tasks / Activities / deliverables	Involved experts and Description of activities	Due timeframe/ deadline
Task 1. Define scope, structure, vision and workplan for the LT-LEDS Georgia		
1.1 Development of stakeholder engagement strategy for the whole LT-LEDS design process.	TL, DTL, Manager: develop criteria for stakeholder engagement and their preferences; develop a list of stakeholders with indication of their rank and roles	6-7 Oct, 2020
1.2 In-depth policy review of national development plans and visions, CC strategy/policy, national and sectoral strategies, NCs, BURs etc.	Develop a paper of assignments for sectoral experts for conducting the in-depth review of relevant National CC policy documents and their respective sectoral policy documents;	5-6 Oct, 2020
	All sectoral experts: Carry out and develop an in-depth policy review of national development plans & vision statements, climate change strategy/policy (including but not limited to Nationally Determined Contribution, Climate Action Plan, Low Emission Development Strategy 2030), national and sectoral strategies, national	by end of October 2020

	communications, biennial updated reports etc. as the basis for crafting of an economy wide Long-Term Low Emission Development Strategy	
1.3 Propose adjustments to scope, structure and content of LT-LEDS and provide recommendations	TL: Communicating to the sectoral experts with description of the assignment	7th Oct, 2020
	Sectoral experts: Propose adjustments to the recommended scope, structure and content of LT-LEDS and provide recommendations (in writing)	20th October 2020
	TL, DTL: Drafting scope, structure and content of Georgian LT-LEDS based on the provided recommendations on what features to communicate in the LT-LEDS document	End of October 2020
1.4. Advise on institutional frameworks and coordination me-chanisms to ensure successful development of the LT-LEDS based on international best practices and taking into account national circumstances of Georgia	TL, DTL, Manager, (other experts)	8th Oct, 2020
1.5 Coordinate inner consultations to discuss the LT vision, objectives, institutional arrangements and WP	TL: Communicate to the sectoral experts over the assignment to prepare Long-term vision and objective for their respective sectors and institutional arrangements	9th Oct 2020
	Feedback from the sectoral experts providing the requested outputs.	13th Oct 2020
	The discussion will be held at the inception meeting, considering a draft, preliminarily prepared by TL/DTL based on the feedback from the sectoral experts.	Mid-October 2020
1.6 Drafting overall long-term mid-century vision, strategic goals and objectives	TL: Drafting overall long-term mid-century vision, strategic goals and objectives, based on the feedback from the sectoral experts.	20th Oct 2020
1.7 Conducting Inception workshop	Organize an IM (Consultant), present the draft inception report (TL)	End of October 2020 **
1.8 Finalization of the Inception report	TL (with DTL): incorporate the suggestions, resolve the issues, get the IR ready for submission	By 13th Nov, 2020
1.9 Submission of the final Inception report	Manager	By 13th Nov, 2020

Task 2. Develop baseline and LED pathways for selected sectors through qualitative and quantitative assessments		
2.1 Collect, review and analyze available information and data, necessary for developing a baseline scenario(s) and modelling LED pathways for all sectors - Identifying the lists of input data for sectoral projections - Collect, review and analyze available information and data, necessary for developing a baseline scenario(s) and modelling LED pathways for all sectors - Prepare and submit a report on data collection - Conduct interviews with stakeholders; - Prepare and submit Interview analysis	Modelling Expert, international sectoral experts, national sectoral experts: For each sector, the respective (2) sectoral experts consult with each other and outer expert(s) if needed, on the input data necessary for the projections in their respective sectors.	
	Sectoral experts: Collect the input data necessary for the projections in their respective sectors; analyze them and arrange them in tables.	End of October, 2020 November, 2020 End of November, 2020 November 2020 End of November, 2020
2.2 Develop sectoral scenarios/pathways in alignment with the updated NDC and the Climate Action Plan, including sectoral modelling of GHG emissions and sector's economic parameters	All the Team: An inner team meeting is held where the TL, DTL, Modelling expert explain the assignment details to the sectoral experts.	November, 2020
	Sectoral experts: Develop sectoral scenarios/pathways in alignment with the updated NDC and the Climate Action Plan, for each sector: Energy experts and agriculture expert working with the modelling expert; waste, Industry and LULUCF experts are working	By the end of January 2021

through employing TIMES energy model generator	separately on their respective sector's projections. 2 Baseline projections (pessimistic and optimistic) and 3 mitigation projections (WM and two WAM - 2^o and 1.5^o).	
	Modelling expert, in close cooperation with all sectoral experts: integration of the sectoral projections' outcomes into the TIMES model	by 20th of February 2021
Deliverable: Report on baseline scenario(s) and LED pathways	TL, DTL, in consulting and cooperative mode with sectoral experts and modelling expert	25th of February, 2021
Task 3. Determining prioritized mitigation actions in different sectors		
3.1		
- Develop criteria for prioritization of mitigation actions	All experts: inner consultations for developing preliminary set of criteria, with ranking, for prioritization of mitigation actions.	Early in February 2021
- Convene National Consultation Workshop for determining prioriti-zed mitigation actions in different sectors and discuss the main outputs of the modelled sectoral scenarios/pathways, and agree upon the necessary modifications for the selected low-emission development pathways (if any) with the stakeholders and Climate Council of Georgia.	All experts: present and discuss 1) the preliminary set of prioritization actions to relevant stakeholder, to identify final set of criteria for prioritization of mitigation actions; 2) the main outputs of the modelled sectoral scenarios/pathways, and agree upon the necessary modifications for the selected low-emission development pathways (if any)	End of February 2021
3.2 Address the comments raised and make corresponding corrections in calculation of mitigation potential, considering also inter-sectoral synergies and interactions;	All experts: Address the comments raised and re-quantify the GHG emission reduction potential of the mitigation actions. The team will also analyze the inter-sectoral policy synergies and trade-offs in addition to the potential cross sectoral policy interactions. Sectoral experts will closely cooperate with the modelling expert to implement this activity to ensure reasonable and rational corrections in the projections.	10th of March, 2021

3.3 Recalculation of the projections (if necessary)	All experts, including modelling expert: Building upon the results of the consultations with stakeholders and the Climate Council of Georgia, the Team will re-visit the mitigation scenarios/ pathways and measures and recalculate the projections (if necessary)	20th of March, 2021
Task 4: Identifying financial options/ strategy		
4.1 Identifying financial options/ strategy	All the team: Now, when the prioritized mitigation actions are already identified, enabling to achieve the desired target in the projections, the Team will work together with the LT-LEDS key stakeholder groups to assess the acceptable financial options required to implement the prioritized mitigation measures and determine which actions can be financed through national sources, and which will require international support. The assessment will include the entire chains of the actions, including also both the technology cost and the implementation cost; The assessment should also define priorities and time- sequencing of the investments proposed in each sector.	End of March, 2021
4.2 Develop MRV system for the LT LEDS	TL, DTL, other experts	January-June, 2021
4.3 Draft Georgian LT LEDS*	All the Team	1st of June, 2021
Deliverable: LT-LEDS draft	TL (responsible)	
Task 5. Stakeholders Consultation for LEDS Development, Validation and Approval		
5.1 Conduct the multi-stakeholder consultation meeting (National Validation Workshop) to consider the draft LT LEDS	Consultant is organizing the representative multi-stakeholder consultation meeting where the draft LT LEDS document, that was disseminated beforehand, is considered critically, and comments and suggestions recorded.	1st of July, 2021
5.2 Finalize the LT LEDS document and submit for approval	TL: in close cooperation with DTL, Manager, sectoral experts is finalizing the LT LEDS document, incorporating the appropriate corrections provided by the stakeholders. The document is internally considered and endorsed by the Team, and is officially submitted for approval.	20th August, 2021

Deliverable: Final LT-LEDS	TL (responsible)	31st August, 2020

**The process of drafting of the LT LEDS document is outlined in the table below, with distribution of responsibilities of the experts and tentative timeframes.*

***The Inception Workshop was held later (6 November), due to objective impediments*

Distribution of work in drafting the LT LEDS document

Project Expert Team carries collective responsibility for elaboration of the entire LT LEDS document. However, its different parts are individual responsibility of different experts. The distribution of work in drafting the LT LEDS among the Project Experts, together with tentative timeframes is presented in Table 3 below.

Table 3: The scope of the LT LEDS with the experts' responsibilities and timelines for their chapters and paragraphs-writing

Chapters& paragraphs*	Responsible expert(s)**	Timelines
1. Overview and process for developing the LT LEDS		
1.1 Executive Summary	TL, DTL, M	January-February 2021
1.2 Situation Analyses	DTL	February 2021
1.3 Legal and policy context	TL, DTL, M	June 2021
1.4 Public consultation	M	June 2021
1.5 International and National context (global, EU, Georgia)	TL, DTL, M	March 2021
2. International and National context (global, EU, Georgia)		
2.1 The path toward greenhouse gas emission reduction for the period of 2050		May 2021
2.2 Transformation of the economy and society by 2050	TL, DTL, M	May 2021
2.3 Description of the pathway up to 2050	TL, DTL, M	June 2021
2.4 Promoting climate action at all levels	TL, DTL, M	March 2021
3. Total GHG emission reductions and enhancements of removals by sinks		
3.1 Projected emission reductions and enhancement of removals by 2050	TL, DTL, M	June 2021
3.2 National target for 2030 (in alignment with the Updated NDC and the Climate Action Plan of Georgia) and beyond, (if available) and indicative milestones for 2040 and 2050	TL, DTL, M	June 2021
4. Sectoral Priorities (Targets and measures)		
4.1 Long-term climate action in energy sector	EEs//M, TL, DTL	May 2021

4.1.1 Initial situation and policy analysis	EEs /M, TL, DTL	Nov-Dec 2020
4.1.2 GHG emissions profile	EEs /DTL	Nov-Dec 2020
4.1.3 To extent feasible, the estimated likely share of GHG emissions of the sector in 2050	EEs, ME	March 2021
4.1.4 Intended or likely future emissions trajectory or range	EEs, ME	May 2021
4.1.5 Guiding principle for 2050 and transformation pathway	EEs	May 2021
4.1.6 Milestones for 2030	EEs	Jan-Feb 2021
4.1.7 Potential Measures	EEs, EcEs	May 2021
4.2 Long-term climate action in transport sector	TE/M, TL, DTL	May 2021
4.2.1 Initial situation and policy analysis	TEs /M, TL, DTL	Nov-Dec 2020
4.2.2 GHG emissions profile	TEs /DTL	Nov-Dec 2020
4.2.3 To extent feasible, the estimated likely share of GHG emissions of the sector in 2050	TEs, ME	March 2021
4.2.4 Intended or likely future emissions trajectory or range	TEs, ME	May 2021
4.2.5 Guiding principle for 2050 and transformation pathway	TEs	May 2021
4.2.6 Milestones for 2030	TEs	Jan-Feb 2021
4.2.7 Potential Measures	TEs, EcEs	May 2021
4.3 Long-term climate action in buildings sector	BE/M, TL, DTL	May 2021
4.3.1 Initial situation and policy analysis	BEs /M, TL, DTL	Nov-Dec 2020
4.3.2 GHG emissions profile	BEs /DTL	Nov-Dec 2020
4.3.3 To extent feasible, the estimated likely share of GHG emissions of the sector in 2050	BEs, ME	March 2021
4.3.4 Intended or likely future emissions trajectory or range	BEs, ME	May 2021
4.3.5 Guiding principle for 2050 and transformation pathway	BEs	May 2021
4.3.6 Milestones for 2030	BEs	Jan-Feb 2021
4.3.7 Potential Measures	BEs, EcEs	May 2021
4.4 Long-term climate action in Industry sector	IE/M, TL, DTL	May 2021
4.4.1 Initial situation and policy analysis	IEs /M, TL, DTL	Nov-Dec 2020
4.4.2 GHG emissions profile	IEs /DTL	Nov-Dec 2020
4.4.3 To extent feasible, the estimated likely share of GHG emissions of the sector in 2050	IEs, ME	March 2021
4.4.4 Intended or likely future emissions trajectory or range	IEs, ME	May 2021
4.4.5 Guiding principle for 2050 and transformation pathway	IEs	May 2021
4.4.6 Milestones for 2030	IEs	Jan-Feb 2021
4.4.7 Potential Measures	IEs, EcEs	May 2021

4.5 Long-term climate action in agriculture sector	AE/M, TL	May 2021
4.5.1 Initial situation and policy analysis	AEs /M, TL	Nov-Dec 2020
4.5.2 GHG emissions profile	AEs	Nov-Dec 2020
4.5.3 To extent feasible, the estimated likely share of GHG emissions of the sector in 2050	AEs, ME	March 2021
4.5.4 Intended or likely future emissions trajectory or range	AEs, ME	May 2021
4.5.5 Guiding principle for 2050 and transformation pathway	AEs	May 2021
4.5.6 Milestones for 2030	AEs	Jan-Feb 2021
4.5.7 Potential Measures	AEs, EcEs	May 2021
4.6 Long-term climate action in LULUCF sector	LE/M, TL, DTL	May 2021
4.6.1 Initial situation and policy analysis	LEs /M, TL, DTL	Nov-Dec 2020
4.6.2 GHG emissions profile	LEs /DTL	Nov-Dec 2020
4.6.3 To extent feasible, the estimated likely share of GHG emissions of the sector in 2050	LEs, ME	March 2021
4.6.4 Intended or likely future emissions trajectory or range	LEs, ME	May 2021
4.6.5 Guiding principle for 2050 and transformation pathway	LEs	May 2021
4.6.6 Milestones for 2030	LEs	Jan-Feb 2021
4.6.7 Potential Measures	LEs, EcEs	May 2021
4.7 Long-term climate action in waste sector	WE/M, DTL	May 2021
4.7.1 Initial situation and policy analysis	WEs /M, DTL	Nov-Dec 2020
4.7.2 GHG emissions profile	WEs /DTL	Nov-Dec 2020
4.7.3 To extent feasible, the estimated likely share of GHG emissions of the sector in 2050	WEs, ME	March 2021
4.7.4 Intended or likely future emissions trajectory or range	WEs, ME	May 2021
4.7.5 Guiding principle for 2050 and transformation pathway	WEs	May 2021
4.7.6 Milestones for 2030	WEs	Jan-Feb 2021
4.7.7 Potential Measures	WEs, EcEs	May 2021
5. Financing	All sectoral experts, EcE, TL, DTL, M	
5.1 Estimates of investments needed (refer to TASK 4 below)	All sectoral experts, EcE, TL, DTL, M	Mid-May 2021
6. Implementing and updating the LT LEDS (MRV process)	TL, DTL, another team	January – June 2021
7. Details on modelling (including assumptions) and/or analysis, indicators, etc.	ME/ TL, DTL	May-June, 2021
7.1 Details on modelling (including assumptions) and/or analysis, indicators, etc.	ME/ TL, DTL	May-June, 2021

TL and DTL are carrying responsibility for the timeliness and quality of the LT LEDS preparation process; Overall supervision on the process is carried out by the M

**The content, the scope and the structure of the document are subject to modification in the course of the Project implementation; The recommended scope is structured under chapters and paragraphs in the purposes of allocation of responsibilities to the experts.*

***Abbreviations: EE- energy sector expert; BE – Buildings sector expert(s); TE – transport sector expert(s); AE – agriculture sector expert(s); LE – LULUCF sector expert(s); WE – waste sector expert(s); EcE – economic sector expert(s); ME – modelling expert; TL – team leader; DTL – deputy team leader; M – manager.*

5. Time frame and deliverables

As indicated above (para 2.4), during the internal consultations at the Project Team meeting, held after the kick-off meeting, the timeframe for the Project implementation was decided to be prolonged without violating the deadline for submission of the final product - LT LEDS (20 August 2021). Based on this change, the schedule for submission of deliverables has been modified accordingly:

Table 4. Deliverables and timeframe

No.	Deliverables	Timing*
1	Work plan for the assignment	08.09.2020
2	LT-LEDS Kick-Off National Workshop	21.09.2020
3	Draft Inception Report (TASK 1)	01.10.2020
4	Inception Workshop	06.11.2020
	Final Inception Report	13.11.2020
5	Draft Report on Baseline Scenario and Low-Emission Development Pathways (TASK 2), Stage 1: Data compilation for scenarios (deliverables from sectoral experts)	14.12.2020
6	Draft Report on Baseline Scenario(s) and Low-Emission Development Pathways (TASK 2), Stage 2: Scenarios	25.02.2021
7	National Consultation Workshop for determining prioritized mitigation actions in different sectors	28.02.2021
8	Final Report on Baseline Scenario and Low-Emission Development Pathways (TASK 2, end)	31.03.2021
9	Draft LT-LEDS, including Financial Strategy (TASK 3, TASK 4)	01.06.2021
10	National Validation Workshop for Final Draft of Mid-Century LT-LEDS	01.07.2021
11	Final Approved LT- LEDS	31.08.2021

**For deliverables in writing (Reports), Timing is showing deadlines for submission, for workshops – deadlines for holding.*

6. Nearest steps of the assignment

Main activities planned for the near future (end of 2020) include:

- Finalization of stakeholder engagement strategy for the whole LT-LEDS design process (finalization of the list of stakeholders based on sectoral experts' suggestions);
- Carry out and develop an in-depth policy review of national development plans & vision statements, climate change strategy/policy (including but not limited to Nationally Determined Contribution, Climate Action Plan, Low Emission Development Strategy 2030), national and sectoral strategies, national communications, biennial updated reports etc. as the basis for crafting of an economy wide Long-Term Low Emission Development Strategy (due by end of November); Sectoral experts will deliver their reports, to be compiled later;
- Collect, review and analyze available information and data, necessary for developing baseline scenario(s) and for modelling low-emission development pathways for all sectors (due by end of November 2020);
- Plan and conduct interviews with relevant stakeholders by sector and reflect the outcomes and their analysis in sectoral reports (November) – to be compiled later.

7. Activity Plan

Tasks	Year 2020				Year 2021							
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1. Work plan for the assignment												
2. LT-LEDS Kick-Off National Workshop												
3. Stakeholder engagement strategy for the whole LT-LEDS design process.												
4. An in-depth policy review of national development plans & vision statements												
5. structure and content of Georgian LT-LEDS and provide recommendations on what features to communicate in the LT-LEDS document												
6. Overall long-term mid-century vision, strategic goals and objectives												
7. Final work plan for the development of the LT-LEDS												
8. Inception Workshop and Final Inception Report												
9. Collect, review and analyze available information and necessary data necessary for developing baseline scenario(s) and for modelling low-emission development pathways for all sector												
10. Sectoral scenarios/pathways in alignment with the updated NDC and the Climate Action Plan, including sectoral modelling of GHG emissions and sector's economic parameters through employing TIMES energy model generator												
11.Report on Baseline Scenario(s) and Low-Emission Development Pathways												
12.National Consultation Workshop for determining prioritized mitigation actions in different sectors												
13. The prioritized mitigation pathways and actions/measures based on the modeling outputs and the prioritization methodology												
14.Identifying financial options/ strategy												
15. Develop MRV system for the LT LEDS												
16. Drafting LT-LEDS												
17. National Validation Workshop for Final Draft of Mid-Century LT-LEDS												
18. Final LT-LEDS document												

8. Annexes

Annex 1 - Kick-off workshop

საქართველოს დაბალეიმისიანი განვითარების გრძელვადიანი სტრატეგია

Long-Term Low Emission Development Strategy of Georgia

KICK-OFF MEETING REPORT

Project Kick-Off Meeting

October 2020 – English Version

პროექტის გახსნისადმი დაკავშირებული შეხვედრის ანგარიში

2020 წლის ოქტომბერი, ინგლისურენოვანი ვერსია

კავკასიის რეგიონული გარემოსდაცვითი ცენტრი

ბადრი შოშიტაიშვილის ქ. 13, ქ. თბილისი 0179

The Regional Environmental Centre for the Caucasus

13, B. Shoshitaishvili str., 0179 Tbilisi, Georgia

I. Highlights of Kick-Off Meeting

1. Background

Kick-Off Meeting was organized within the project for elaboration of Long-Term Low Emission Development Strategy of Georgia (LT-LEDS). LT-LEDS of Georgia will be developed in the scope of the EU4Climate project. The EU4Climate project is a regional initiative, funded by the European Union and implemented by the United Nations Development Program (UNDP) in six Eastern Partnership countries. National implementing partner of the EU4Climate project in Georgia is the Ministry of Environmental Protection and Agriculture of Georgia (MoEPA). Development of LT-LEDS of Georgia will be executed by the Regional Environmental Centre for the Caucasus (REC Caucasus).

The overall goal of the project is to assist UNDP and the Ministry of Environmental Protection and Agriculture of Georgia (MEPA) in developing mid-century (long-term) gender-sensitive low emission development strategy (LT- LEDS) of Georgia aiming at supporting the country to fulfil the commitment taken under the Paris Agreement on Climate Change and assisting in Environmentally sound long-term planning in the following sectors: Energy, Buildings, Transport, Industry, Agriculture, Land-Use, Land-Use Change and Forestry (LULUCF) and Waste.

2. Objectives of Kick-Off Meeting

The main objective of the Kick-Off Meeting was to introduce the team of experts, methodologies and approaches, work-plan and major milestones envisaged for elaboration of LT-LEDS to the stakeholders and implementing partners, exchange views on main approaches and explore opportunities for synergies with various sector development initiatives

3. Outputs

- Kick-Off Meeting provided participants with information and knowledge about vision, methodology, steps and schedule of implementation of the tasks and the list of the engaged experts.

- Objectives, outcomes and work plan were presented to participants.

- Project Work Plan was/were discussed and agreed.

Project Team received feedback and recommendations for future activities from participants of the Meeting.

4. Participants

Kick-Off Meeting targeted policy makers in the environment and climate change related ministries and agencies, as well as representatives of non-governmental organizations and experts (see List of Participants).

The targeted stakeholders were representatives of:

- Ministry of Environment Protection and Agriculture of Georgia
- Ministry of Regional Development and Infrastructure of Georgia
- Ministry of Finance
- Ministry of Economy and Sustainable Development of Georgia
- Administration of the Government of Georgia
- International Organizations
- Non-governmental Organizations
- Independent Experts

5. Contacts:

REC CAUCASUS

Sophiko Akhobadze, Ms. – REC Caucasus Director / Project Director

REC Caucasus

Badri Shoshitaishvili Str. 11, 0120 Tbilisi, Georgia
Tel.: + 995 32 2250775

sophiko.akhobadze@rec-caucasus.org

http://www.rec-caucasus.org

6. Venue:

Kick-Off Meeting was organized online via ZOOM Platform.

II. Minutes of Kick-Off Meeting

The national kick-off meeting for elaboration of LT-LEDS took place on 21t of September 2020 via ZOOM Platform https://undp.zoom.us/j/91020920596 in which participated project team, partners and stakeholders. The aim of the meeting was to familiarize participants with the process, to present action plan and expected outcomes and to receive feedback from stakeholders. To this end, representatives of governmental and non-governmental organizations, international organizations and independent experts attended the meeting.

National Project Coordinator of EU4CLIMATE opened the first session of the meeting. According to Mr. Lasha Nakashidze all involved parties have been waiting to initiate this process which is part of the regional initiative and for this he thanked EU and UNDP for their support.

Ms. Nino Tkhilava, Head of Environment and Climate Change Department of the MEPA was moderator of the opening session. She talked about the importance of the strategy for the country, thanked EU and UNDP and highlighted importance of cooperation with REC Caucasus which is long-term partner of the ministry, especially in the climate change related projects. Before introducing representatives of the ministry, UNDP and REC Caucasus, she mentioned that engagement of all sectors and consideration of opinions of stakeholders is very important for this process.

Ms. Nino Tandilashvili, Deputy Minister of Environment Protection and Agriculture welcomed the participants. She thanked partners for their support and mentioned that it is very important to discuss this document urgently, because according to the Framework Convention on Climate Change, the country is obliged to prepare a Low-Emissions Development Strategy, in addition under the Association Agreement Georgia has obligation to develop the strategy, which will formulate a long-term vision for our country. Ms. Tandilashvili reminded participants about unfortunate consequences of climate change and mentioned that elaboration strategy will help the process of development sectoral recommendations and planning appropriate measures to help mitigate climate change and adapt to its consequences. Deputy Minister noted that it is multi-sectoral process, therefore hearing the opinions of stakeholders regarding this process is very important, which is exactly the aim of this meeting.

Ms. Louisa Vinton, the Resident Representative of UNDP in Georgia took floor after Ms. Tandilashvili. She thanked EU for supporting this project in 6 countries and afterwards she praised Georgia for handling COVID-19 related condition very well which gives the country the opportunity to focus energy of development of such strategy. She also highlighted the strategy will include long term activities and visions but they need to be elaborated now because it is big and long-term problem. According to her it is multi sectoral problem, everyone is affected by it and everyone is contributing in creating and reducing this problem, so it is not just environmental issue, therefore it is important to include all important sectors.

Ms. Sophiko Akhobadze, the Director of the Regional Environmental Centre for the Caucasus finalized opening session. She said that starting this project is very important for the organization. According to her this process started just 1 week ago based on the contract signed between REC Caucasus and UNDP, the process will last approximately 1 year and in September next year strategy for 2050 will be elaborated. Ms. Akhobadze talked about the project objectives and ways to achieve them. She highlighted several approaches which will be used by project team during the process which are: participatory approach; engagement of all relevant sectors and stakeholders; synergy and partnership with other projects and organizations; gender mainstreaming; consideration of best international and national practice; consideration of SDGs and contributing to achieving nationally recognized goals and objectives and taking previous practice into consideration. Lastly, Ms. Akhobadze mentioned that similar process was carried out last year, however the final document was not approved and did not get the status of governmental program. Therefore, project team will analyze policy related and technical gaps of previous process and will take them into consideration while elaborating the strategy.

The Project TL presented the vision, methodology, steps and schedule of implementation of the tasks and the list of the engaged experts (project team). The preliminary workplan was also presented outlining the tasks according to their timeframes. Discussion over the problems arisen around the previous LEDS document of Georgia was held and institutional and technical aspects of them were highlighted. The TL expressed her vision on the number of scenarios for baseline and mitigation pathways and proposed to use milestones for monitoring and iteration process for the document. The discussion was held around Georgia's legislation about long-term

policy documents and some ideas were proposed.Deputy TL presented some recommendations and next steps for a few sectors under his responsibility.

Q&A session was passionate and involved many attendees. The presenters and the Project Manager and the MEPA representative (Ms. Nino Tkhilava) answered the questions. On this the kick-off meeting was over.

Appendices

Appendix 1. Kick-Off Meeting Agenda

ევროკავშირი
საქართველოსთვის
The European Union for Georgia

EU4CLIMATE

AGENDA

LT-LEDS KICK-OFF NATIONAL WORKSHOP

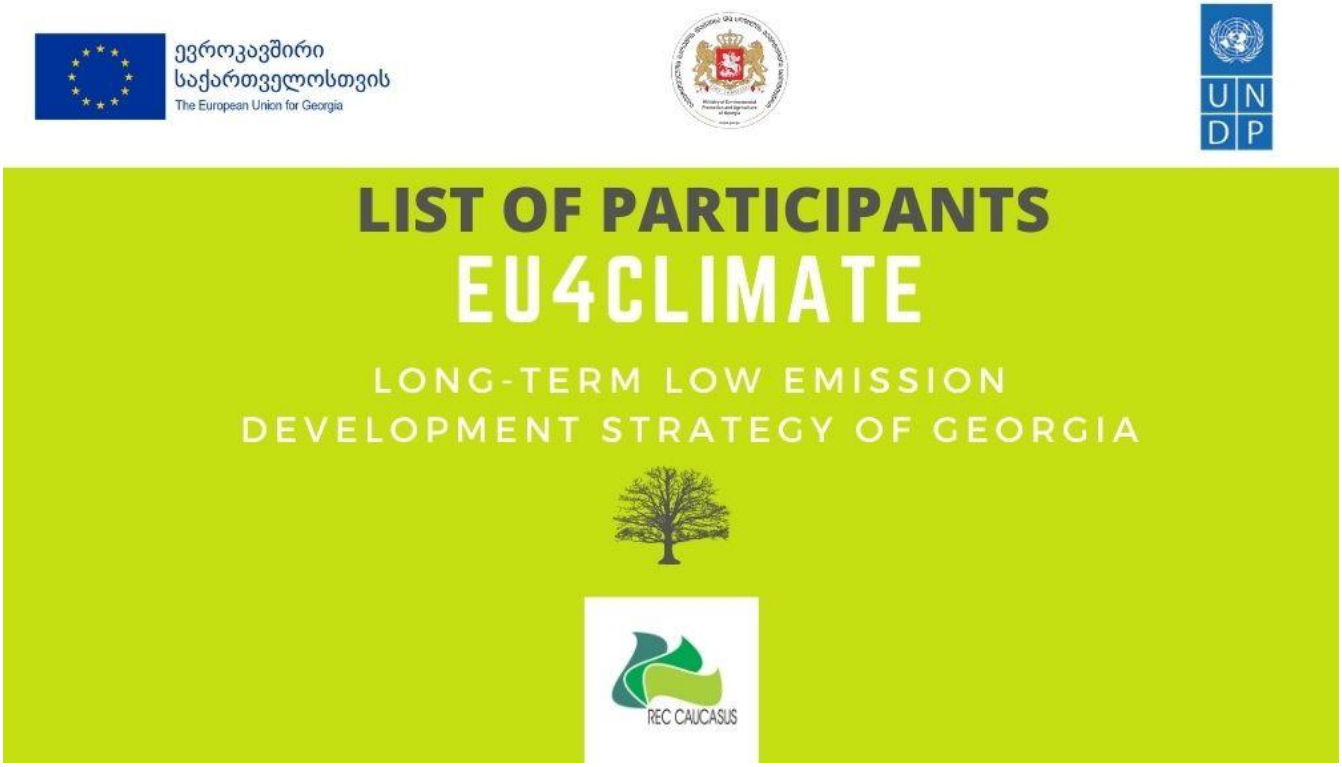
LONG-TERM LOW EMISSION DEVELOPMENT STRATEGY OF GEORGIA

REC CAUCASUS

15:00 – 15:10	Welcome of participants and introduction of the meeting agenda	**Mr. Lasha Nakashidze,** EU4CLIMATE National Coordinator. UNDP Georgia
15:10 – 15:45	Opening remarks from project agencies • **Ms. Nino Tandilashvili,** Deputy Minister, Ministry of Environmental Protection and Agriculture of Georgia • **Mr. Alexandre Darras**, Team Leader Connectivity, Energy, Environment & Climate Change; Delegation of the European Union to Georgia • **Ms. Louisa Vinton,** Resident Representative, UNDP Georgia	Moderator: **Ms. Nino Tkhilava,** Head of Climate and Environment Department, Ministry of Environmental Protection and Agriculture of Georgia
15:45 – 16:00	Overview of project – outcomes Project work plan, key deliverables, methodology and team of experts	**Ms. Sophiko Akhobadze,** Director of RECC **Ms. Medea Inashvili**, Team Leader RECC
16:00 – 16:15	Q&A	
16:15 – 16:30	Recommendations & next steps	**Mr. Grigol Lazrievi**, Deputy Team Leader, RECC
16:30 – 17:00	Final questions	
17:00 – 17:15	Closing statements	

Appendix 2

List of Participants



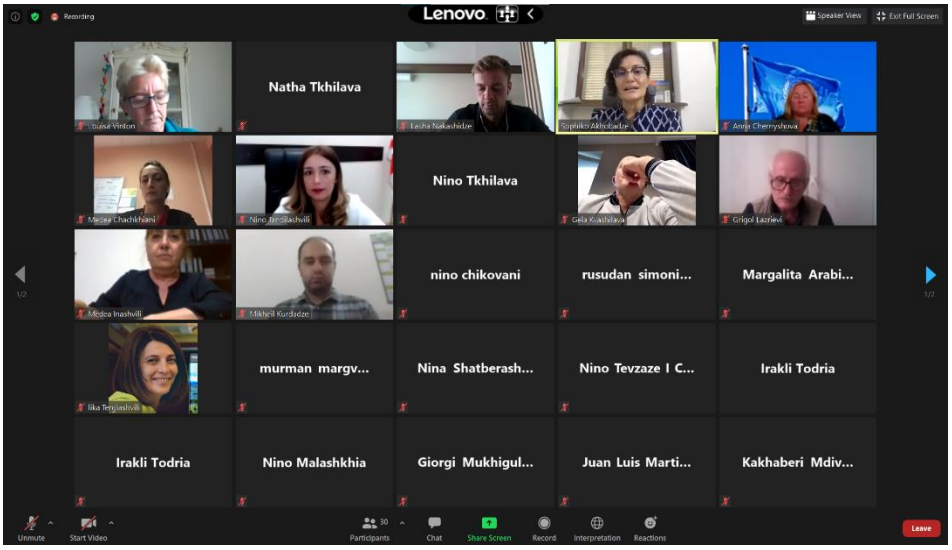
No.	Institution/Position	CP Meeting Participant/ Position	Contact Details
1.	UNDP Georgia	Ms. Louisa Vinton, Resident Representative	Louisa.vinton@undp.org
2.	UNDP Georgia	Ms. Anna Chernyshova, Deputy Resident Representative	Anna.chernyshova@undp.org
3.	UNDP Georgia	Ms. Nino Antadze/ Energy and Environment Team Leader	Nino.antadze@undp.org Tel: 599 09 39 89
4.	UNDP Georgia	Mr. Lasha Nakashidze EU4Climate National Coordinator	Nino.antadze@undp.org Tel: 599 09 39 89
5.	UNDP Georgia	Mr. Shalva Amiredjibi, Project Manager, Development of Georgia's Fourth National Communication and Second Biennial Update Report to the UNFCCC	shalva.amiredjibi@undp.org
6.	GIZ Georgia	Ms. Ketevan Vardosanidze National Adviser (Climate Portfolio),	ketevan.vardosanidze@giz.de
7.	UNDP IRH	Mr. Yevgen Groza EU4Climate Regional Manager	Yevgen.groza@undp.org
8.	EUD to Georgia	Mr. Alexandre Darras, Team Leader Connectivity, Energy, Environment & Climate Change	Alexandre.DARRAS@eeas.europa.eu
9.	Ministry of Environmental Protection and Agriculture of Georgia	Ms. Nino Tandilashvili /Deputy Minister	Nino.tandilashvili@mepa.gov.ge
10.	Ministry of Environmental Protection and Agriculture of Georgia	Ms. Nino Tkhilava Head of Env. And Climate Change Department	Nino.tkhilava@mepa.gov.ge
11.	Ministry of Environmental Protection and Agriculture of Georgia	Ms. Maia Tskhvaradze, Acting Head of Climate Change Division	Maia.tshvaradze@mepa.gov.ge
12.	Ministry of Environmental Protection and Agriculture of Georgia	Mr. Karlo.Amirgulashvili, Head of Biodiversity and Forestry Department	Karlo.Amirgulashvili@mepa.gov.ge
13.	Ministry of Environmental Protection and Agriculture of Georgia	Mr. Gizo Chelidze/ Head Of the Hydro melioration Department	gizo.chelidze@mepa.gov.ge Tel: 599 06 99 12
14.	Ministry of Environmental Protection and Agriculture of Georgia	Ms. Nino Chikovani/ Head of Land Resources Protection and Mineral Resources Service	nino.chikovani@mepa.gov.ge Tel: 599 51 77 33

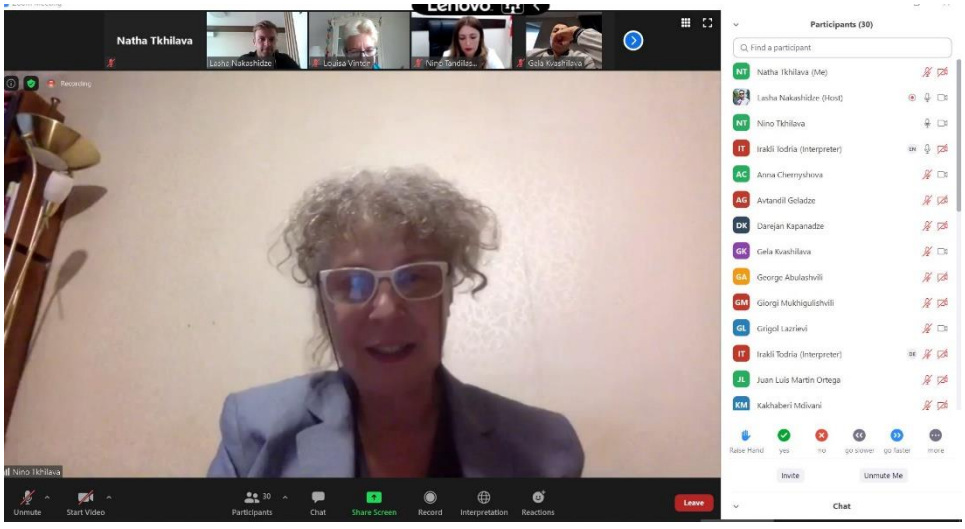
15.	Ministry of Environmental Protection and Agriculture of Georgia	Ms. Irma Gurguliani/ Deputy Head of Waste and Chemical Management Department	irma.gurguliani@mepa.gov.ge Tel: 598 33 40 00
16.	Ministry of Economy and Sustainable Development of Georgia	Ms. Marita Arabidze /Deputy Head of Energy department	Marabidze@moesd.gov.ge Tel: 593 72 85 95
17.	Prime Minister's Office Administration of the Government of Georgia	Bakur Kvaratskhelia, Deputy Head Secretariat for Environmental Issues	bkvaratskhelia@gov.ge Tel: 591 883 767
18.	Prime Minister's Office Administration of the Government of Georgia	Ms. Ana kvernadze, Head of Policy Planning and Coordination Departmen	akvernadze@gov.ge Tel: 577 922 912
19.	Ministry of Finance	Ms. Natia Gulua/ Head of Budget Department	n.gulua@mof.ge Tel: 577 922 912
20.	Ministry of Regional Development and Infrastructure of Georgia	Mr. Nikoloz Rosebashvili /Head of department for relations with Regions and local Self-government agencies	n.rosebashvili@mrdi.gov.ge
21.	Ministry of Economy and Sustainable Development of Georgia	Mr. Erekle Kejherashvili Deputy Head of Transport Policy Department	ekezherashvili@moesd.gov.ge Tel: 595-960-350
22.	Solid Waste Management Company of Georgia	Ms. Khatuna Chikviladze	khatunac@hotmail.com Tel: 599 107 328
23.	EIEC	Ms. Tamar Aladashvili/ Director	tamarage@brandeis.edu
24.	Tbilisi City Hall	Mr. Giga Gigashvili/ Head of Municipal Department of Environment and Landscaping	g.gigashvili@tbilisi.gov.ge Tel: 591 94 55 33
25.	Georgian Energy Development Fund	Mr. Nugzar Khanidrava	n.khanidrava@gedf.com.ge
26.	Municipal Development Fund	Ms. Ana Rukhadze	arukhadze@mdf.org.ge
27.	GWP	Ms. Nino Sulkhanishvili/ Head of Environmental Department	Tel: 574 73 88 71
28.	MFO Crystal	Mr. Malkhaz Dzadzua Executive Director	info@crystal.ge ტელ.: (032) 2 02 20 20 ;
29.	CENN	Ms. Nana Janashia / Director	nana.janashia@cenn.org Tel: 599 577 722

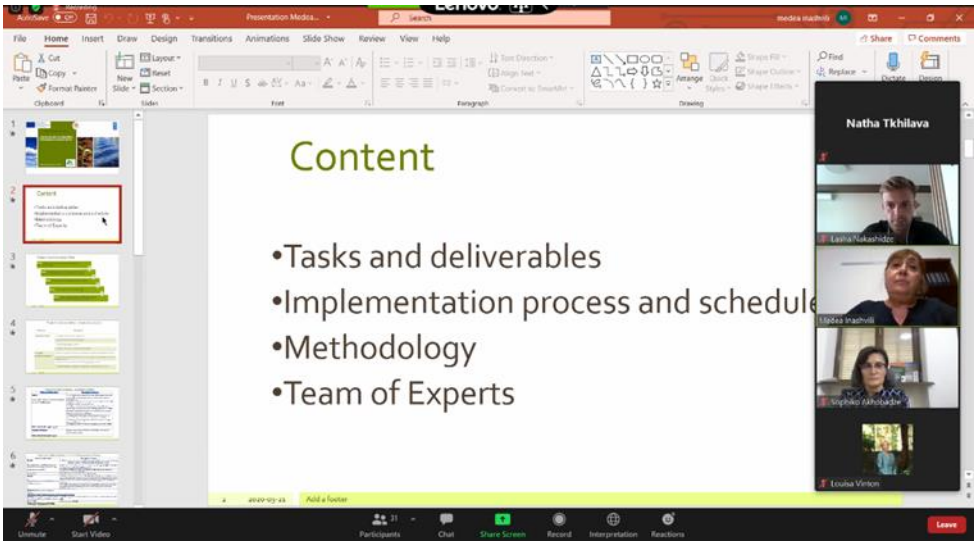
30.	Greens Movement of Georgia/Friends of the Earth-Georgia	Ms. Rusudan Simonidze	rusudan.simonidze@greens.ge Tel: 995 599 532 611
31.	WEG	Mr. Murman Margvelashvili/ Director	m.margvelashvili@weg.ge Tel: 599 574 247
32.	Remissia	Ms. Marina Shvangiradze/ Director	mshvangiradze@hotmail.com Tel: 995 599 19 12 75
33.	Partnership for Road Safety	Mr. Gela Kvashilava/ Founder	georoadsafety@gmail.com Tel: 599 06 22 11
34.	Rec-Caucasus	Ms. Kety Tsereteli	Kety.thereteli@rec-caucasus.org Tel: 577 56 96 56
35.	EEC Energy Efficiency Center	Mr. George Abulashvili/Director	g_abul@eecgeo.org Tel: 599 974 003
36.	GEO Georgia's Environmental Outlook	Ms. Khatuna Gogoladze	Tel: 599 29 28 16 kh_gogaladze@yahoo.com
37.	EBRD	Ms. Tea Melikadze Principal Banker Municipal and Environmental Infrastructure	MelikadT@ebrd.com Tel: +995 32 2447400
38.	The World Bank Group	Ms. Darejan Kapanadze	dkapanadze@worldbank.org
39.	ADB	Mr. Kamel Bouhmad	kbouhmad@adb.org
40.	USAID	Mr. Nick Okreshidze/ CTO	norkeshidze@usaid.gov Tel: 551000033
41.	KfW	Ms. Tako Kvantaliani – KfW South Caucasus regional Office	Tamar.Kvantaliani@kfw.de Tel: 577 798764
42.	GIZ/ EcoSERVE	Mr. Benedikt Ibele/ Team leader	Benedict.ibele@giz.de Tel: 577 783 707
43.	UNIDO /Reducing Greenhouse Gas (GHG) Emissions through Improved Energy Efficiency in the Industrial Sector in Georgia	Ms. Nino Lazashvili/National Project Manager	n.lazashvili@unido.org Tel: 599 699 757

Appendix 3

Kick-Off Meeting Photos






Content
•Tasks and deliverables
•Implementation process and schedule
•Methodology
•Team of Experts
Natha Tkhilava

Annex 2. Inception Workshop Report

საქართველოს დაბალეიმისიანი განვითარების გრძელვადიანი სტრატეგია
Long-Term Low Emission Development Strategy of Georgia

INCEPTION WORKSHOP REPORT

Project Inception Workshop

November 2020 – English Version

პროექტის პირველი სამუშაო შეხვედრის ანგარიში

2020 წლის ნოემბერი, ინგლისურენოვანი ვერსია

კავკასიის რეგიონული გარემოსდაცვითი ცენტრი
ბადრი შოშიტაიშვილის ქ. 13, ქ. თბილისი 0179
The Regional Environmental Centre for the Caucasus
B. Shoshitaishvili str., 0179 Tbilisi, Georgia

I. Highlights of the Inception Workshop

1. Background

Inception Workshop was organized within the project for elaboration of Long-Term Low Emission Development Strategy of Georgia (LT-LEDS). LT-LEDS of Georgia will be developed in the scope of the EU4Climate project. The EU4Climate project is a regional initiative, funded by the European Union and implemented by the United Nations Development Program (UNDP) in six Eastern Partnership countries. National implementing partner of the EU4Climate project in Georgia is the Ministry of Environmental Protection and Agriculture of Georgia (MoEPA). Development of LT-LEDS of Georgia will be executed by the Regional Environmental Centre for the Caucasus (REC Caucasus).

The overall goal of the project is to assist UNDP and the Ministry of Environmental Protection and Agriculture of Georgia (MEPA) in developing mid-century (long-term) gender-sensitive low emission development strategy (LT-LEDS) of Georgia aiming at supporting the country to fulfil the commitment taken under the Paris Agreement on Climate Change and assisting in Environmentally sound long-term planning in the following sectors: Energy, Buildings, Transport, Industry, Agriculture, Land-Use, Land-Use Change and Forestry (LULUCF) and Waste.

2. Objectives of the Inception Workshop

The main objective of the Inception Workshop was to present a Draft Inception Report to the wide range of stakeholders and implementing partners, and to discuss some technical issues related to the Project implementation and the future LT LEDS, to exchange views and get valuable suggestions from the attendees, in order to reflect them in the final Inception Report.

3. Outputs

- The Inception Workshop provided participants with main items of the Draft Inception Report, namely, scope and structure of the LT LEDS, base year, number of scenarios, workplan, vision, methodology, tasks and schedule of their implementation and the list of the engaged national and international experts.

- Scope and structure of the LT LEDS document, strategic vision and general approach for implementation of the Project have been discussed among the participants, questions set and answered.

- The Draft Inception Report and its issues presented and discussed at the meeting were agreed.

  Project Team received valuable comments and suggestions for the final Inception Report from participants of the Meeting.

4. Participants

Inception Workshop targeted policy makers in the environment and climate change related ministries and agencies, municipalities – signatories of the Covenant of Mayors' East, as well as representatives of non-governmental organizations and experts (see List of Participants).

The targeted stakeholders were representatives of:

- Ministry of Environment Protection and Agriculture of Georgia
- Ministry of Regional Development and Infrastructure of Georgia
- Ministry of Finance
- Ministry of Economy and Sustainable Development of Georgia
- Administration of the Government of Georgia
- International Organizations
- Municipalities
- Non-governmental Organizations
- Independent Experts

5. Contacts:

REC CAUCASUS

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Badri Shoshitaishvili Str. 11, 0120 Tbilisi, Georgia
Tel.: + 995 32 2250775

sophiko.akhobadze@rec-caucasus.org

http://www.rec-caucasus.org

6. Venue:

Inception Workshop was organized online via ZOOM Platform.

7. Media coverage

https://www.facebook.com/permalink.php?story_fbid=1460084117520776&id=314985285364004

https://www.facebook.com/europeanunioningeorgia/posts/3412317615550388

https://www.facebook.com/UNDPGeorgia/posts/3421834514531187

https://www.ge.undp.org/content/georgia/ka/home/presscenter/pressreleases/2020/eu4climate-emissions-strategy.html?fbclid=IwAR0ruoeFxCwTpJCREtakzkbs2Qs_AMCWE9EUsqsMtQJHahXDJ0cvpc6otD8

II. Minutes of the Inception Workshop

The national Inception Workshop for elaboration of LT-LEDS took place on 6th of November 2020 via ZOOM Platform https://undp.zoom.us/j/82396779649 and the participants comprised project team, partners and stakeholders. The aim of the meeting was to familiarize participants with the process, to present action plan and expected outcomes and to receive feedback from stakeholders. To this end, representatives of governmental and non-governmental organizations, international organizations and independent experts attended the meeting.

National Project Coordinator of the EU4CLIMATE project Mr. Lasha Nakashidze, who was moderating the meeting, opened the first session, welcomed the participants and after short introduction of the LT LEDS Project, gave the floor for opening remarks.

Ms. Nino Tandilashvili, Deputy Minister of Environmental Protection and Agriculture of Georgia opened the workshop and stated that: “Long-Term Low Emission Development Strategy 2050 (LT-LEDS) is an important document and tool for Georgia to help the country in planning climate change mitigation and meeting its

commitments under UNFCCC, to support investment in low-emission economic growth, manage natural resources in a way that promotes sustainable economic growth and improve Georgia's climate resilience".

Mr. Alexandre Darras, Team Leader on Connectivity, Energy, Environment and Climate Change at the Delegation of the EU to Georgia continued the opening session and accentuated the importance of the Strategy within the Paris Agreement framework: "It is very important that EU4Climate is supporting LT-LEDS Development, because the fight against the climate change is the key priority of the European Union, so we see it in the framework of the willingness to make the Paris Agreement a success. We believe the Strategy will help Georgia build its future actions around the objectives of reducing emissions".

Afterwards, Ms. Louisa Vinton, Resident Representative of UNDP Georgia noted that "UNDP is very pleased to be part of and support this initiative". She highlighted that along with being realistic and practical, this needs to be a visionary strategy for 2050, and strongly encouraged stakeholders to utilize the "thinking out-of-box approach", while keeping feet on the ground in order to achieve the best results in addressing challenges associated with the Climate Change in Georgia.

During the workshop, RECC project team, consisting of national and international experts, introduced the methodology, development process and schedule, as well as scope and structure of the Low Emission Development Strategy 2050 document.

Ms. Medea Inashvili – RECC team leader, introduced the vision and methods, as well as scope and structure of the Low Emission Development Strategy 2050 document. The purpose of the LT LEDS is to ensure well-planned, steady and smooth transition to low-emission and sustainable path for economic and social development. It is envisaged as a forward-looking plan of actions focusing on achieving a mid-century quantitative target for national GHG emission reduction. "We aim at creation of a sound, viable and reliable document that can be integrated in national development policy. The LT LEDS will set a range of national GHG emission reduction by 2050 and will provide tentative indicators for GHG emission reduction for the CC policy and measures, conducted in the country throughout the years 2020-2050," – said Ms. Inashvili.

It was also mentioned that the long-term gender-sensitive strategy will support the country to fulfil the commitment taken under the Paris Agreement on Climate Change and assist in environmentally sound, low-carbon and climate-wise long-term planning in the following sectors: Energy, Buildings, Transport, Industry (IPPU), Agriculture, Land-Use, Land-Use Change and Forestry (LULUCF) and Waste.

Mr. Lasha Nakashidze, National Coordinator of EU4Climate from UNDP Georgia, led the Q&A session which involved many attendees and involved substantial issues of the LT LEDS. The project team answered questions from attendees and received suggestions and recommendations from them. On this the Inception Workshop was over.

Appendices

Appendix 1. Inception Workshop Agenda

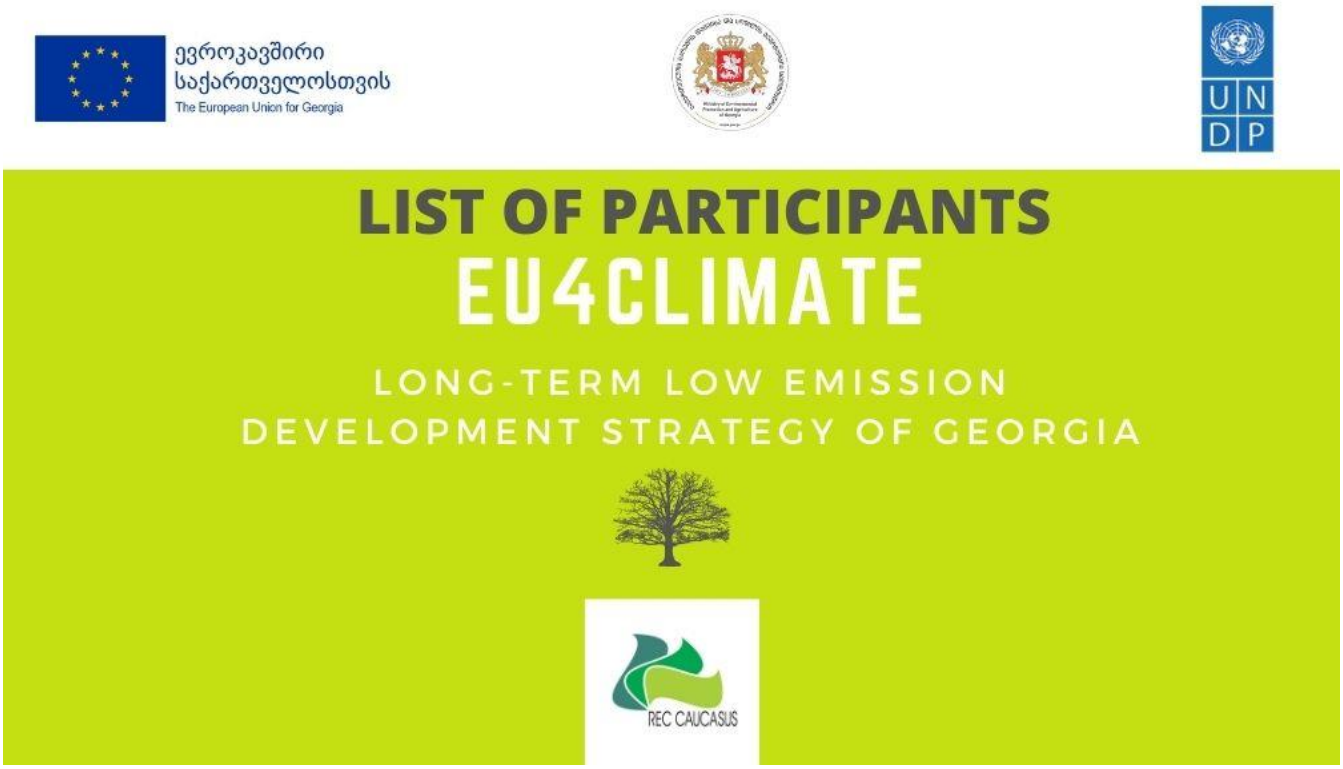
November 6, 2020.

Moderated by **Mr. Lasha Nakashidze,** EU4Climate National Coordinator, UNDP Georgia

12:00 – 12:15	Opening remarks: • **Ms. Nino Tandilashvili,** Deputy Minister of Environmental Protection and Agriculture of Georgia • **Mr. Alexandre Darras**, Team Leader Connectivity, Energy, Environment & Climate Change; Delegation of the European Union to Georgia • **Ms. Louisa Vinton,** Resident Representative, UNDP Georgia • **Ms. Sophiko Akhobadze**, Director of Regional Environmental Center for Caucasus	*Moderated by:* **Mr. Lasha Nakashidze,** EU4Climate National Coordinator, UNDP Georgia
12:15 – 12:35	Developing Georgia's LT LEDS: Key points, items and issues • The purpose of the LT LEDS • Selected sectors • Vision, objectives • Strategy of implementation • Base year • Scope and structure of the LT LEDS document	**Ms. Medea Inashvili**, Team Leader, RECC
12:35 – 12:50	Q&A	**Mr. Lasha Nakashidze,** EU4Climate National Coordinator, UNDP Georgia
12:50 – 13:15	Developing Georgia's LT LEDS: • Methodology, • Key deliverables and schedule for implementation • Institutional framework • Team of experts	**Ms. Medea Inashvili**, Team Leader, RECC
13:15 – 13:30	Q&A	**Mr. Lasha Nakashidze,** EU4Climate National Coordinator, UNDP Georgia
13:30 – 14:00	Presentation and consideration on the provided recommendations and suggestions	**Ms. Medea Inashvili**, Team Leader, RECC
14:00	Next steps and closure of the workshop	**Mr. Lasha Nakashidze,** EU4Climate National Coordinator, UNDP Georgia

Appendix 2

List of Participants



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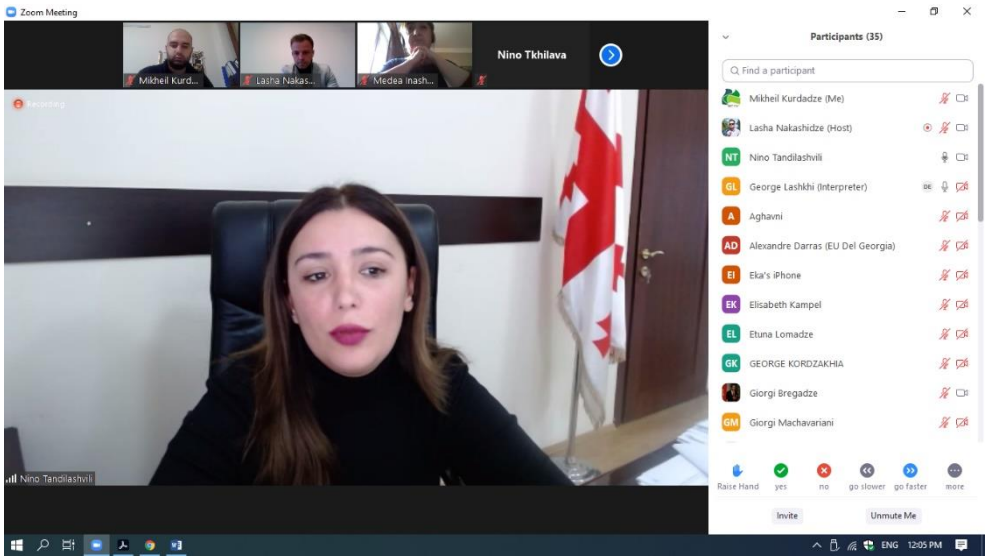
Appendix 3

Inception Workshop Photos




Zoom Meeting
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Giorgi Brega...
Nino Antadze
Kety Tsereteli
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Louisa Vinton
Participants (35)
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Mikheil Kurdadze (Me)
Lasha Nakashidze (Host)
George Lashkhi (Interpreter)
Aghavni
Alexandre Darras (EU Del Georgia)
Eka's iPhone
Elisabeth Kampel
Etuna Lomadze
GEORGE KORDZAKHIA
Giorgi Bregadze
Giorgi Machavariani
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Record
Interpretation
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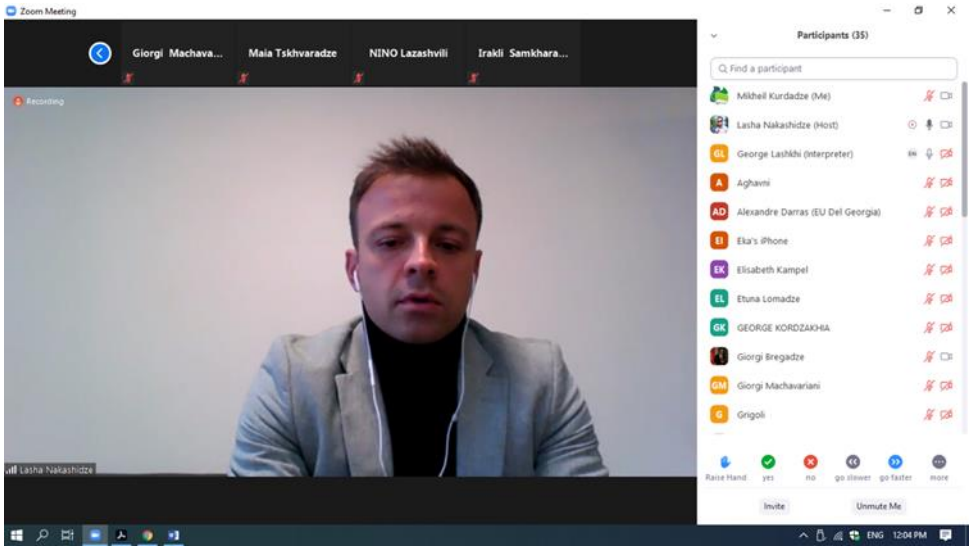
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Maia Tskhvaradze
NINO Lazashvili
Irakli Samkhara...
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Lasha Nakashidze (Host)
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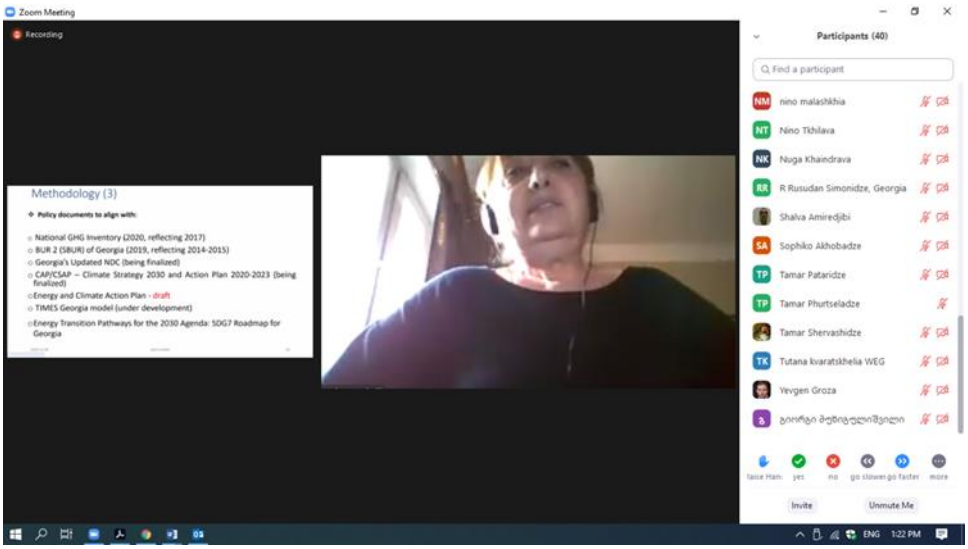
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Methodology (3)
Policy documents to align with:
National GHG Inventory (2020, reflecting 2017)
BUR 2 (SBUR) of Georgia (2019, reflecting 2014-2015)
Georgia's Updated NDC (being finalized)
CAP/CSAP – Climate Strategy 2030 and Action Plan 2020-2023 (being finalized)
Energy and Climate Action Plan - draft
TIMES Georgia model (under development)
Energy Transition Pathways for the 2030 Agenda: SDG7 Roadmap for Georgia
Participants (40)
Find a participant
nino malashkhia
Nino Tkhilava
Nuga Khaindrava
R Rusudan Simonidze, Georgia
Shalva Amiredjibi
Sophiko Akhobadze
Tamar Pataridze
Tamar Phurtseladze
Tamar Shervashidze
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