Climate Change Strategy and Statistics in Georgia

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Main strategic framework document:

- Georgia’s 2030 Climate Change Strategy
- Nationally Determined Contribution (NDC)

Main Goal and Purpose - Level Indicator - Reduction of national greenhouse gas (GHG) emissions by 35% compared to 1990 (baseline) levels
General Overview

Responsible organizations for climate change strategy and relevant statistical data:
- Ministry of Environmental Protection and Agriculture of Georgia - MEPA
- National Statistics Office of Georgia - GEOSTAT

Agencies involved in climate change issues:
- Ministry of Economy and Sustainable Development of Georgia
- Local Government Offices of Georgia
- Georgian Revenue Service
- Georgian State Electrosystem (GSE)
- Georgian Oil and Gas Corporation (GOGC)
- Other public and private organizations
Target Segments

- Energy Generation and Transmission
- Energy Consumption in Transport
- Energy Consumption in Buildings
- Energy Consumption in Industry and Industrial Processes
- Agriculture
- Waste Management
- Forestry
Data Sources

- Surveys – Geostat
- Administrative Data - Ministry of Environmental Protection and Agriculture (MEPA) and respective agencies

### Geostat

- Survey of Water Supply Enterprises (Data on water supply industry)
- Data from different sources - used for producing environmental indicators and Environmental Accounts
  - Agricultural Statistics (Agricultural and Environmental Statistics Department)
  - Energy Balance and Transport Statistics (Business Statistics Department)
  - Energy Sector Survey
  - Final Consumption of Energy Resources Survey
  - Import/Export Data (External Trade and Foreign Investments Statistics Department)
  - Population (Population Census and Demography Department)
  - GDP (National Accounts Department)

### MEPA

- Data on Water Resources and Ambient Air Protection (Ministry of Environmental Protection and Agriculture)
- Data on Forest Resources and its Protection (National Forestry Agency, Forestry Agency of Adjara)
- Data on Protected Areas (Agency of Protected Areas)
- Data on Natural Hazards (National Environmental Agency)
**Environmental Statistics Disseminated by Geostat**

### Land resources
- Land cover
- Agricultural and non-agricultural land operated by agricultural holdings

### Forest resources and their protection
- Forest area
- Forest fire and restoration
- Illegal and legal timber logging
- Export and import of non-processed timber

### Protected areas
- Structure of protected areas
- Number of preserved animal and bird species
- Expenses on maintenance of protected areas and number of employees

### Water Resources
- Main rivers, lakes and reservoirs
- Main indicators for water supply industry and wastewater collection
- Main indicators for protection and use of water resources

### Ambient air protection
- Generated, decontaminated and emitted hazardous substances from stationary sources
- Exhaust emissions from road transport

### Natural hazards
- Number of hydro meteorological events and geological phenomena
### UNECE Environmental Indicators

<table>
<thead>
<tr>
<th>Category</th>
<th>Indicator</th>
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<tbody>
<tr>
<td>A-1</td>
<td>Emissions of pollutants into the atmospheric air</td>
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<tr>
<td>A-3</td>
<td>Consumption of ozone-depleting substances</td>
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<tr>
<td><strong>B-3. Greenhouse gas emissions</strong></td>
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<td>C-4</td>
<td>Household water use per capita</td>
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<td>C-5</td>
<td>Water supply industry and population connected to water supply industry</td>
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<td>C-7</td>
<td>Water losses</td>
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<td>C-14</td>
<td>Population connected to wastewater treatment</td>
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<td>F-2</td>
<td>Fertilizer consumption</td>
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<td>F-4</td>
<td>Pesticide consumption</td>
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<td><strong>G-1. Final energy consumption</strong></td>
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<tr>
<td>G-2</td>
<td>Total primary energy supply</td>
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<td>G-3</td>
<td>Energy intensity</td>
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<td>G-4</td>
<td>Renewable energy supply</td>
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<td><strong>H-1. Passenger transport demand</strong></td>
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<tr>
<td>H-2</td>
<td>Freight transport demand</td>
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<td><strong>H-3. Composition of road motor vehicle fleet by fuel type</strong></td>
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<td><strong>H-4. Age of road motor vehicle fleet</strong></td>
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**Methodology – definitions and terms:**

- UNECE environmental indicators
- UNSD/UNEP Questionnaire on Environment Statistics
Share of GHG Emission by Sectors

- Energy combustion in stationary sources: 29%
- Energy combustion in mobile sources: 23%
- Agriculture: 20%
- Waste: 9%
- Industrial Processes: 11%
- Fugitive emissions: 8%

2017
Challenges

- Quality of administrative data (accuracy of data, incomplete data)
- Lack of disaggregated administrative and survey data
- Not sufficient resources
- Not complete metadata document
Innovations

- Computer-Assisted Personal Interviewing (CAPI) Method
  - Saving time and human resources
  - Flexible and efficient data processing
  - Improving quality
  - Less environmental pollution
Data Dissemination Formats

- Annual statistical publication “Natural Resources of Georgia and Environmental Protection”

- Statistical Yearbook of Georgia:
  Section: Natural Resources and Environmental Protection
  https://www.geostat.ge/en/single-categories/95/statistical-yearbook

- Environment section at Geostat website:
  Charts and tables

- Regional statistical portal of Geostat
  https://www.geostat.ge/regions/#

- Regional statistics section

- Separate section for UNECE environmental indicators at Geostat website:

- Android and IOS applications

- PC-AXIS Database
  http://pc-axis.geostat.ge/PXweb/pxweb/en/Databse/?rxid=dfe9a49a-2741-4aac-b682-c73a856747ad
Future plans

- Reviewing and discussing data gaps
- Prioritizing non-produced indicators
- Strengthening national statistical capacities and data collection system
- Actively cooperating with international organizations and experts
- Working on data quality
- Assessing and looking for new data sources
- Preparing Energy Statistics Portal
- Producing two additional climate change related UNECE Environmental Indicators
  
  (B1 - Air temperature; B2 - Atmospheric precipitation)
THANK YOU FOR YOUR ATTENTION!

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Reliable Data for Right Decisions!
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