



**MINISTRY OF ECONOMY  
AND SUSTAINABLE DEVELOPMENT  
OF GEORGIA**

# **Technological Needs for Climate Action in Line with National Commitments**

---

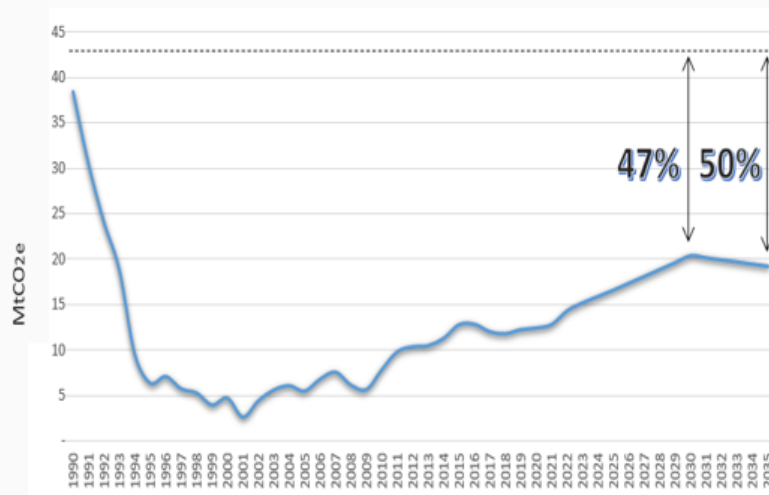
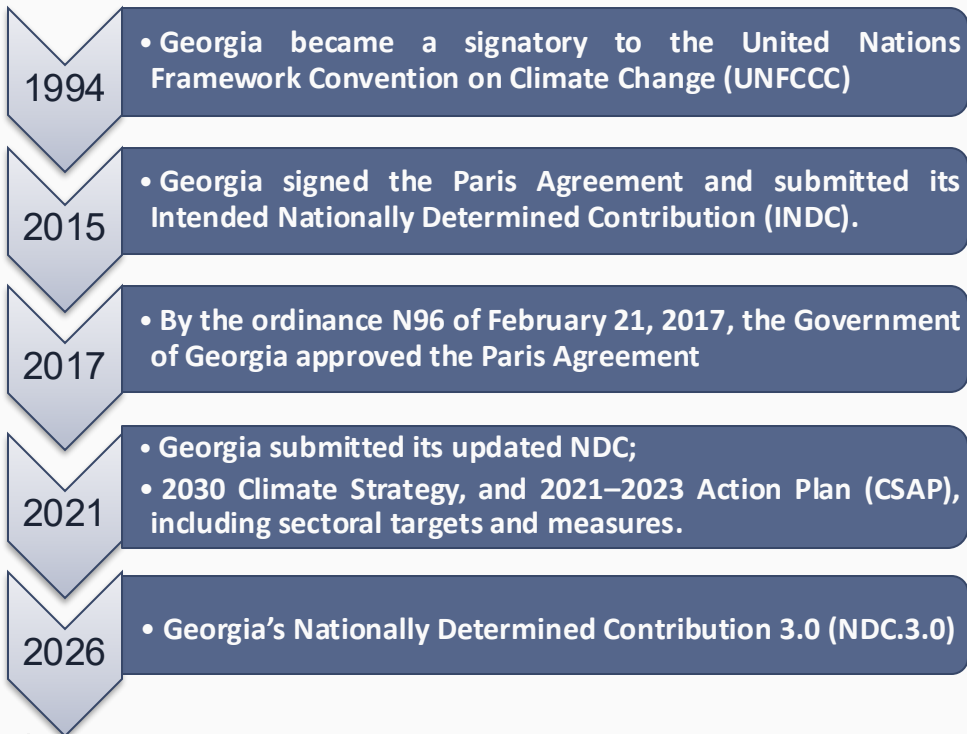
**Tamar Sabelashvili**

Energy Efficiency and Renewable Energy Policy and Sustainable  
Development Department

*07 April 2026*

*Bishkek, Kyrgyz Republic*

# Georgia's Climate Change policy Milestones



Georgia undertakes to reduce the total net emissions of greenhouse gases at the national level by 47% by 2030 compared to 1990 levels, and to set a target of a 50% reduction for 2035



# Climate Technology Needs Assessment for Georgia

- 2023 Georgia Technology Action Plan has been prepared;
- The document was developed by the Center for Sustainable Development - "Remisia" and funded by the Green Climate Fund.
- At the first stage four sectors were selected :
  - I. Electricity generation and supply;
  - II. Buildings;
  - III. Transport;
  - IV. Agriculture.



# Chapter – I

## Energy Sector Technology

### Combination of technologies:

- Wind power plants (WPP)
- Pumped storage hydro power plants (PS-HPP)

- Photovoltaic power plants
- Battery energy storage system (BESS)

- Run of-river-power plants (RoR)
- Green hydrogen(GH2)

### Main Challenges (WPP)

- Integration into the grid;
- WPP generation is highly variable

### Main Challenges (PV)

- Integration into the grid;
- Variability.

### Main Challenges(RoR)

- Variability;
- Local community opposition

### Main Challenges (PS-HPP)

- Investment costs;
- long construction period ;
- Local community opposition.

### Main Challenges (BESS)

- Investment costs;
- Low experience in the technology;
- Lack of legislative framework

### Main Challenges(GH2)

- Investment costs
- Long Construction period
- Lack of legislative framework



## Chapter – II

### Building sector technologies

- Saving potential in building sector - 40–50% reduction of GHG
- New building standards came into force - June 30, 2023

**Technology 1:** Improved building insulation (thermal envelope);

**Technology 2:** High-efficient heating & cooling system (water-electric heat pumps)

## Chapter – III

### Transport sector technologies

**Technology 1.** Public transport development;

**Technology 2.** Strengthening electric road transport and its infrastructure

**Technology 3.** Increasing biodiesel production

## Chapter – IV

### Agricultural sector technologies

**Technology 1.** Breeding of highly productive livestock;

**Technology 2.** Use of agricultural waste as fertilizer



# Conclusions

**In order to achieve better progress, there is a need for:**

- Elaboration and effective implementation of legislation;
- Modern technology development to mitigate climate change;
- Addressing financial and capacity constraints;
- Technology transfer from developed countries;
- International cooperation and awareness raising.





**MINISTRY OF ECONOMY  
AND SUSTAINABLE DEVELOPMENT  
OF GEORGIA**

# Thank You!

---

**Ministry Of Economy And Sustainable Development Of Georgia**

Energy Efficiency and Renewable Energy Policy and Sustainable Development Department

Tamar Sabelashvili – [tsabelashvili@moesd.gov.ge](mailto:tsabelashvili@moesd.gov.ge)