



**Ministry of
Ecology and Natural Resources
of the Republic of Azerbaijan**



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Azerbaijan's Climate Change Country Profile and Targets

- Azerbaijan joined the international efforts to mitigate the negative effects of global climate change by ratifying the UN Framework Convention on Climate Change in 1995, the Kyoto Protocol to the Convention in 2000, and the Paris Agreement in 2016.
- Azerbaijan contributes only 0.15% of total global GHG emissions, with around 5.5 tons of CO2 equivalent emissions per capita. Energy and agriculture are two sectors with the largest GHG emission shares, respectively 70% and 13 %.

35% reduction in the level of GHG emissions compared to 1990 by 2030

Reduce greenhouse gases by 40% by 2050

Create net zero emission zone in Karabakh and Eastern Zangazur region by 2050

Increase electricity production from renewable energy sources with share up to 30% by 2030.

Azerbaijan joined the Bonn Challenge with the commitment of bringing 270 thousand hectares' forest land into restoration by 2030

Vulnerability

- ✓ water resources
- ✓ agriculture
- ✓ coastal areas

The water flow of major rivers and the level of Caspian Sea are already decreasing. As a result of climate change, our water resources have decreased by 15% over recent decades.

Measures Taken

- Azerbaijan submitted its First Nationally Determined Contribution (NDC) in 2017 to the UNFCCC secretariat;
- The updated (Second) NDC submitted to the UNFCCC secretariat in October, 2023
- Fourth national communication to the united nations framework convention on climate change submitted in 2021 - <https://unfccc.int/sites/default/files/resource/FNC%20report.pdf>
- State Commission established in 1997 to ensure implementation of the obligations under UNFCCC was approved in a new composition on March 11, 2020 by the Order of the President of the Republic of Azerbaijan. Working group on climate change with representatives of each member organization of abovementioned Commission been established.
- The first "smart village" project based on modern technologies in Azerbaijan was implemented in Zangilan district of Karabakh. In "smart villages", the energy needs of residents is met only at the expense of alternative energy sources, which will contribute to the measures aimed to reduce the impact of climate change.

State Programs, legislations and action plans

- "Azerbaijan 2030: National priorities for socio-economic development" - Priority 5 « Clean environment and Green growth» application of green and smart technologies to reduce GHG;
- "Strategy of socio-economic development of the Republic of Azerbaijan in 2022–2026" Action plan - development of inventory of greenhouse gases and Monitoring-measurement, accountability and verification (MRV) system, creation of an institutional base based on modern experience of the MRV system and creation of a national database based on international experience;
- The State Strategy on the use of alternative and renewable energy sources in the Republic of Azerbaijan - defines the areas for the production of electricity and heat through the wide use of alternative and renewable energy sources;
- I State Program for the Great Return to Karabakh - will result in an increase in the absorption potential of greenhouse gases to achieve the goals of the updated Nationally Determined Contributions document by increasing forest and green areas;
- The draft of the Law "On the Management of Greenhouse Gases Released into the Atmosphere" has been prepared by MENR and it was sent for the revision of the other related state organizations;

Compared to the figure of 1990, the downward trend in emission level has decreased since 2000 and changed from 46.54% to 31.59% by 2016 (last inventory year)

Mitigation measures

- At present, large-scale projects in the field of electricity generation from solar and wind energy have been launched by ACWA Power of Saudi Arabia and Masdar of the United Arab Emirates. As a result of these projects, it is estimated to reduce approximately 2% of total greenhouse gas emissions of the country in the field of electricity production.
- Low Emission Development Strategy is under preparation. Implementation of this strategy in future will lead to mitigation actions in all sectors.
- Bonn Challenge with the commitment of bringing 270 thousand hectares forestland into restoration by 2030. Besides this initiative, the greening activities such as the establishment of modern agro-forest massifs are being implemented all over year in the country.
- As a result of modernization of the gas distribution system implemented by "Azerigas" Production Union in 2015-2018, the emission volume of methane gas (CH₄) decreased by 6 693.52 thousand tons with CO₂ equivalent.

Adaptation measures

- ✓ Doppler air radars have been installed and put into operation in Goy-gol and Shamakhi regions;
- ✓ More than 40 modern automatic hydrological stations have been installed in order to observe and detect hydrometeorological processes.
- ✓ National Adaptation Plan for Azerbaijan is under development. The plan will cover three sectors highly sensitive to adverse impacts of climate change, namely agriculture, coastal zones and water resources.

Challenges

- * **Lack of Technological Capacity:** Building the technological capacity for clean energy production, efficient transportation, and sustainable agriculture can be a hurdle. This includes access to the latest technologies and expertise needed for effective climate action.
- * **Data and Information Gaps:** Adequate data and information are essential for informed decision-making. There is gaps in climate data, which can hinder the ability to assess vulnerabilities and plan adaptation strategies effectively.
- * **Institutional Capacity:** Building the institutional capacity to develop, implement, and enforce climate policies and regulations are important. Effective governance and coordination among relevant agencies are essential.
- * **Social Awareness and Behavior Change:** Raising public awareness about climate change and promoting sustainable practices is essential. Behavior change is necessary at both the individual and community levels to reduce emissions and adapt to changing climate conditions.
- * **Water Scarcity:** Azerbaijan faces water scarcity challenges, and climate change can exacerbate this issue. Managing water resources and ensuring access to clean water for both consumption and agriculture are critical for adaptation efforts.
- * **Vulnerability to Climate Change Impacts:** Azerbaijan is vulnerable to various climate change impacts, including increased temperatures, extreme weather events, and sea-level fluctuations. Adaptation measures should address these vulnerabilities.

**The 28th session of the Conference of the Parties
(COP28) of the UN Framework Convention on Climate
Change (UNFCCC) Dubai,
United Arab Emirates.**

- **COP28 is expected to be attended by about 100 heads of state and government, as well as over 50,000 delegates. The key topics of the Conference is climate finance, climate action and just transition**
- **Azerbaijan will set up its country pavilion with a total area of 254 m² in Cop 28 in Blue zone of the Dubai Expo Center**
- **The side events of various interested local, regional and international organizations are also planned to be held in the country pavilion, along with the display of virtual exhibits that reflect the work done by our country in the fight against climate change, mitigation and adaptation measures.**



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NDC

- Modelling for priority sectors in Azerbaijan on possible development scenarios
- Updated Nationally Determined Contribution (NDC)
- Development of the NDC financial strategy implementation plan.

LEDS

- Development of gender-sensitive mid-century, long-term Low Emission Development Strategy (LT-LEDS) driven by NDC targets

MRV for GHG inventory

- Gap analysis of the existing MRV (GHG inventory) systems in Azerbaijan, which include review of the existing national statistical frameworks and information systems for GHG emission accounting.
- Proposals for national MRV systems in line with the UNFCCC transparency requirements.
- Training materials of MRV experts from technical departments of line ministries and for the private sector stakeholders related to their contributions to national GHG inventories

EU Acquis alignment

- Analysis of the national legislation and fiscal policies, and elaboration of proposals and plans for legislative alignment.



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Climate change mainstreaming

- Analysis of problems in the agricultural sector in Azerbaijan related to climate change and preparation of proposals.
- Gender and climate change integration into the energy policy
- Report on actualization (further strengthening) of measures to reduce GHG emissions in the industrial sector of Azerbaijan
- Climate Risk Centered Agricultural strategy and Policy analysis for Azerbaijan and scoping review of mitigation potential

Climate Finance

- Guidelines for implementing climate budget tagging in Azerbaijan
- Climate budget tagging and integrating CC indicators into national budget planning and reporting systems with the Ministry of Finance
- Integrating climate change considerations into project development processes in Azerbaijan

Communications (2023)

The Project team held:

- #GenerationRestoration Drawing Contest (WED 2021)
- EU Mobility Week (2021)
- DIY (Do It Yourself) (2022)
- School Symposium (2023)
- School Symposium on Climate Change Mitigation and Adaptation measures for high school children
- World Environment Day celebration
- "GoCarbonFree" video contest for youth

Carbon pricing

- The EU4Climate Project has initiated the preparation of an "Assessment of carbon market potential for Azerbaijan's long-term low-carbon development based on the NDC and LT-LEDS ambition."



Thank you!

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