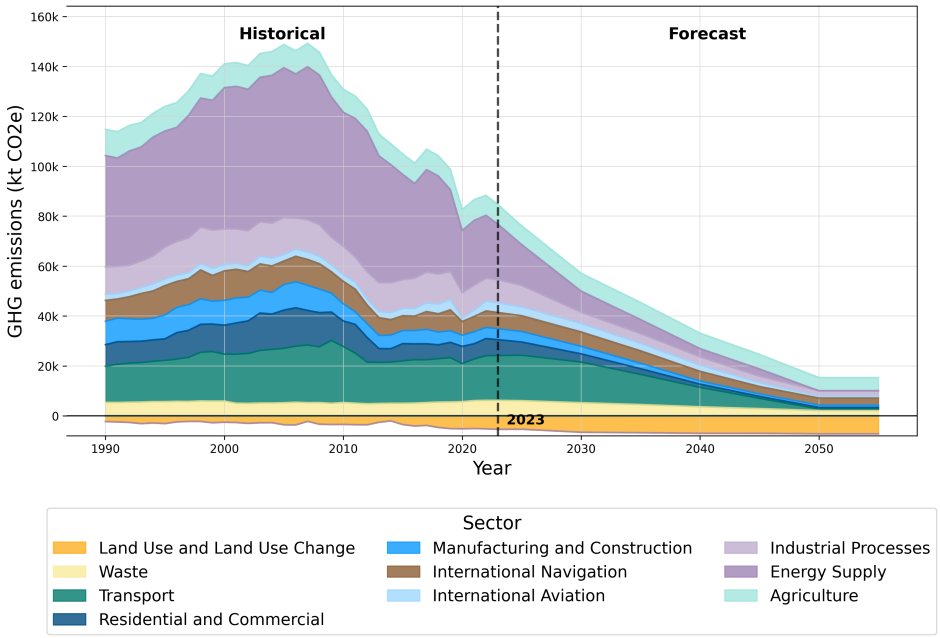
National system for policies and measures and greenhouse gas projections of Greece

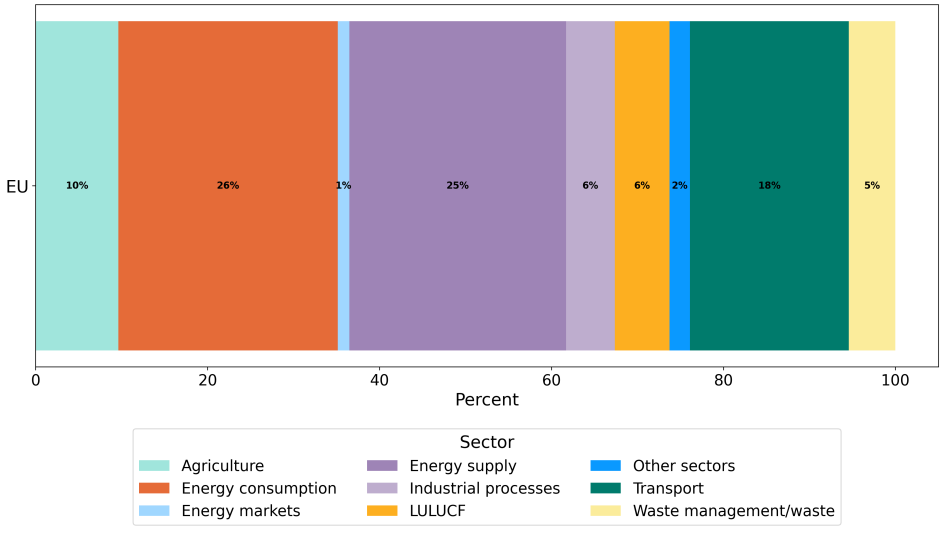
Information reported in 2025

A robust and complete national system ensures the delivery of good-quality information on the projections of anthropogenic greenhouse gas emissions by sources and removals by sinks, as well as policies and measures in place to implement National Climate and Energy Plans. The two figures provide an overview of the information submitted by Greece in 2025, enabled by the national system, as laid out below.

Historical and projected greenhouse gas emission in Greece by sector in 2025.



Reported climate and energy Policies and Measures by affected sector in Greece.



Institutional and procedural robustness

Institutional arrangements

The Greek national system for reporting on policies and measures and for reporting on projections of anthropogenic greenhouse gas emissions is based on the existed national system for the GHG emissions/removals inventory. In this context, the Ministry of Environment and Energy (MEEN) has the overall responsibility for the policy evaluation and for the projections of the anthropogenic GHG emissions; and their official consideration and approval prior to their submission to European Commission (contact persons: Artemis Gryllia, a.gryllia@prv.ypeka.gr, Charikleia Chranioti, ch.chranioti@prv.ypeka.gr, Christina Pavlopoulou, ch.pavlopoulou@prv.ypeka.gr, Address: Patission 47, 11251 Athens, Greece, tel.: +30210 8665938).
The entities participating in the national system are:
-The MEEN designated as the national entity responsible for the policy evaluation and projections of GHG emissions, which apart of the official consideration and approval also plays an active role in data collection, selection of assumptions, methodologies and models, involved in QA/QC activities. In addition, MEEN is the national entity with the responsibility for the monitoring of the achievement of the mitigation targets and the implementation of the policies and measures that are included in the National Energy and Climate Plan (NECP).
-The National Technical University of Athens (NTUA) / School of Chemical Engineering, which has the technical and scientific responsibility for policies and measures evaluation and compilation of projections of GHG emissions for all sectors, on a contract basis by MEEN.
-Governmental ministries and agencies through their appointed focal persons, ensure the data provision.
National associations, along with individual public or private industrial companies contribute to data providing and development of methodological issues as appropriate.

Procedural and administrative arrangements and timescales

The reported PaMs are decided with the aim of fulfilling the climate mitigation targets. Therefore, the completeness of PaMs reporting is linked to the NECP process, which aims to address nine different Policy Priorities:

1. Achieving a climate-neutral economy through lignite phase-out and the promotion of renewable energy sources (RES) in the national energy mix
2. Decarbonization of the islands (Initiative "GR-eco Islands")
3. Actions to reduce emissions in the transport sector
4. Actions to reduce emissions in the agricultural sector
5. Increasing carbon removals in the LULUCF (Land Use, Land-Use Change and Forestry) sector
6. Strategic plans for waste management
7. Strategic plans for the Circular Economy
8. Urban bioclimatic redevelopments and smart cities
9. Actions to reduce emissions in the industrial sector.

The preparation of the Greek GHG emissions inventory is based on the application of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories.
The evaluation of policies and measures and the compilation of projections are completed in three main stages:

Stage 1: The first stage consists of data collection and check for all source/sink categories. The main data sources used are the Hellenic Statistical Authority, the national energy balance, the national energy planning, the government ministries/agencies involved and large private enterprises, along with the verified reports from installations under the EU ETS.
Quality control of activity data and their projections include the comparison of the same or similar data from alternative data sources (e.g. Hellenic Statistical Authority and ETS reports) as well as time-series assessment in order to identify changes that cannot be explained. In cases where problems and/or inconsistencies are identified, the agency's representative, responsible for data providing, is called to explain the inconsistency and/or help solving the problem.
Stage 2: Once the reliability of input data is checked and certified, emissions/removals per source/sink category are estimated. Emissions estimates are then transformed to the format required by the templates required by Commission Implementing Regulation (EU) 2020/1208. This stage also includes the evaluation of the emission factors used and the assessment of the consistency of the methodologies applied in relation to the provisions of the IPCC Guidelines.
Quality control checks, when at this stage, are related to time-series assessment as well as to the identification and correction of any errors / gaps while estimating emissions / removals and filling in the required templates. The voluntary QA/QC checks contained in the reporting template of 2020/1208/EU are also implemented.
Stage 3: The last stage involves the compilation of the report and forms required by article 18 Regulation (EU) 2018/1999 (Governance Regulation) and its internal (i.e. within technical consultant) check. The official approval procedure follows for one-month period of interactions between the Inventory Team (NTUA) and MEEN, starting on the 1st of February of the year of submission. During this period, NTUA has to revise the report and / or templates/forms according to the observations and recommendations of MEEN. On the basis of this interaction process, the final version of the report and pertinent templates are compiled. The Director General for the Environment Policy of MEEN approves the report and templates/forms pursuant to Articles 18 of Regulation (EU) 2018/1999 and then MEEN submits them to the European Commission.
As concerns the timescale for the preparation of the evaluation of policies and projections, the government ministries and agencies and the individual private or public industrial companies referred previously should have collected and delivered to the MEEN and technical consultant the information described in the previous section, within the time period of May to November of year X-1 (X is the submission year).
The quality assurance and quality control system, which is described in section 1.6 of the NIR, is also applied for the evaluation of policies and measures and the preparation of projections. Furthermore, during the preparation of projections, many alternative scenarios were examined in order to investigate how sensitive or stable are the projection of emissions in relation to variations in the input data or underlying assumptions. This analysis is carried out by varying input values of the emission models and by observing how the model output varies correspondingly. Among these scenarios, the most representative were selected and reported in the sensitivity analysis section of this report.
In addition, and within the context of the Quality Assurance/Quality Control system, one master file, which is called Centralised File, has been organized aiming at the systematic and safe archiving of information.

Procedures for the official consideration and approval of the Member States national

system

A governance structure has been developed which governs both the NECP and PaMs/projection reporting.

The official approval procedure follows for one-month period of interactions between the Inventory Team (NTUA) and MEEN, starting on the 1st of February of the year of submission. During this period, NTUA has to revise the report and / or templates/forms according to the observations and recommendations of MEEN. On the basis of this interaction process, the final version of the report and pertinent templates are compiled. The Director General for the Environment Policy of MEEN approves the report and templates/forms pursuant to Articles 18 of Regulation (EU) 2018/1999 and then MEEN submits them to the European Commission.

Description of the information collection process

The information collection process for Policies and Measures (PaMs) is carried out simultaneously with the development of projection scenarios during the NECP preparation process. This integrated approach ensures that PaMs are both informed by and consistent with the overall climate and energy targets.

The evaluation of policies and measures and the compilation of projections are completed in three main stages:

Stage 1: The first stage consists of data collection and check for all source/sink categories. The main data sources used are the Hellenic Statistical Authority, the national energy balance, the national energy planning, the government ministries/agencies involved and large private enterprises, along with the verified reports from installations under the EU ETS.

Quality control of activity data and their projections include the comparison of the same or similar data from alternative data sources (e.g. Hellenic Statistical Authority and ETS reports) as well as time-series assessment in order to identify changes that cannot be explained. In cases where problems and/or inconsistencies are identified, the agency's representative, responsible for data providing, is called to explain the inconsistency and/or help solving the problem.

Stage 2: Once the reliability of input data is checked and certified, emissions/removals per source/sink category are estimated. Emissions estimates are then transformed to the format required by the templates required by Commission Implementing Regulation (EU) 2020/1208. This stage also includes the evaluation of the emission factors used and the assessment of the consistency of the methodologies applied in relation to the provisions of the IPCC Guidelines.

Quality control checks, when at this stage, are related to time-series assessment as well as to the identification and correction of any errors / gaps while estimating emissions / removals and filling in the required templates. The voluntary QA/QC checks contained in the reporting template of 2020/1208/EU are also implemented.

Stage 3: The last stage involves the compilation of the report and forms required by article 18 Regulation (EU) 2018/1999 (Governance Regulation) and its internal (i.e. within technical consultant) check. The official approval procedure follows for one-month period of interactions between the Inventory Team (NTUA) and MEEN, starting on the 1st of February of the year of submission. During this period, NTUA has to revise the report and / or templates/forms according to the observations and recommendations of MEEN. On the basis of this interaction process, the final version of the report and pertinent templates are compiled. The Director General for the Environment Policy of MEEN approves the report and templates/forms pursuant to Articles 18 of Regulation (EU) 2018/1999 and then MEEN submits them to the European Commission.

Description of the process for selecting assumptions, methodologies and models for making projections of anthropogenic greenhouse gas emissions

For scenario development and projections two main procedures have been used:
The projections of energy sector are based on the official energy planning (NECP) provided by the MEEN (Directorate of Energy Policy and Energy Efficiency). These data were "translated" to GHG emissions based on the spreadsheet models used for the estimation of annual GHG inventory. Spreadsheet models for the non-energy sectors, in which future changes in activity data are mainly derived from statistical analysis, while emission factors are derived from expert assessments based on the 2006 IPCC guidelines and country specific information. Actual inventory data till year 2022 have been used in the preparation of the emission projections. Emissions for all sectors were projected using the same models that were used for the BR5, updated to: include improvements in inventory reporting; include emissions for 2022, as reported in the 2024 NIR submission; and update of key assumptions, in order to reflect in the projections the current economic situation, and the most recent forecasts of macroeconomic parameters (e.g. GDP, fuel and carbon prices).
The selection of assumptions, methodologies and models is reported in the attached file with the title: Greenhouse Gas Projections Report.

Institutional administrative and procedural arrangements for domestic implementation of EU's NDC

For the monitoring of the achievement of the mitigation targets and implementation of policies and measures for the period of 2021-2030, an Interministerial Technical Working Group has been established by MEEN with MD 73714/424/28-7-2020 (revised by MD 51149/386/18-05-2023). The main tasks of the group are:
1. The coordination for the implementation and monitoring of the proposals of the Interministerial Committee for Energy and Climate in the framework of the implementation of NECP.
2. The development of a governance framework, for the monitoring, control and supervision of the implementation of policies and measures, as well as the evaluation of the progress of the achievement of the national objectives by the year 2030, foreseen in NECP.
3. The preparation of the relevant progress reports in the framework of the Regulation on the Governance of the Energy Union (2018/1999/EU), as well as internal progress reports at the frequency to be determined by the Interministerial Committee.
4. Recommendation to the Interministerial Committee on Energy and Climate on the redesign of existing and the design of new policy measures, where appropriate and in the light of progress towards the objectives, with a view to achieving them and maximizing synergies between cross-sectoral policies.

Formality

Legal arrangements

The legal framework defining the roles-responsibilities and the co-operation between MEEN, NTUA, and the designated contact points of the competent Ministries of the national system, is based on the Joint Ministerial Decision 22993/18-5-2017, entitled entitled "Structure and operation of the National Greenhouse Gases Inventory System". This formal framework establishes an Interministerial Technical Working Group for the collaboration between the entities involved, assuring the timely collection and quality of the activity data required and solving data access

restriction problems raised due to confidentiality issues.
For the monitoring of the achievement of the mitigation targets and implementation of policies and measures for the period of 2021-2030, an Interministerial Technical Working Group has been established by MEEN with MD 73714/424/28-7-2020 (revised by MD 51149/386/18-05-2023). The main tasks of the group are:
1. The coordination for the implementation and monitoring of the proposals of the Interministerial Committee for Energy and Climate in the framework of the implementation of NECP.
2. The development of a governance framework, for the monitoring, control and supervision of the implementation of policies and measures, as well as the evaluation of the progress of the achievement of the national objectives by the year 2030, foreseen in NECP.
3. The preparation of the relevant progress reports in the framework of the Regulation on the Governance of the Energy Union (2018/1999/EU), as well as internal progress reports at the frequency to be determined by the Interministerial Committee.
4. Recommendation to the Interministerial Committee on Energy and Climate on the redesign of existing and the design of new policy measures, where appropriate and in the light of progress towards the objectives, with a view to achieving them and maximizing synergies between cross-sectoral policies.

Alignment with other reporting frameworks

GHG inventory reporting

The legal framework defining the roles-responsibilities and the co-operation between the entities and the designated contact points of the competent Ministries of the national system for reporting pams and projections is based on the same Joint Ministerial Decision 22993/18-5-2017 as the National Greenhouse Gases Inventory System. The overall responsibility is held by the same entity (MEEN), and the technical and scientific responsibility are assigned to the same technical consultant (currently NTUA).
For scenario development and projections two main procedures have been used:
-The projections of energy sector are based on the official energy planning (Draft integrated national energy and climate plan) provided by the MEEN (Directorate of Energy Policy and Energy Efficiency). These data were “translated” to GHG emissions based on the spreadsheet models used for the estimation of annual GHG inventory.
-Spreadsheet models for the non-energy sectors, in which future changes in activity data are mainly derived from statistical analysis, while emission factors are derived from expert assessments based on the 2006 IPCC guidelines and country specific information.
In addition:
-each reporting of pams and projections include improvements based on most resent GHG inventory submission; and
-QA/QC checks related to time-series assessment, if needed, result in adjustments in projections based on the most resent GHG inbentory submission.

Article 17 of the Governance Regulation (EU) 2018/1999 (NECPR)

The processes for the National Energy and Climate Plan (NECP) and the Integrated National Energy and Climate Progress Reports (NECPR) have been streamlined and are being prepared under the same governance structure. Both are coordinated by the Interministerial Committee on Energy and Climate, which ensures alignment between planning and reporting processes. This integrated approach allows for consistency in data collection, scenario development, and policy assessment. It also ensures that the NECPR effectively tracks progress towards the targets and priorities defined in the NECP, using the same institutional, methodological, and consultative frameworks.

The projections of energy sector are based on the official energy planning provided by the MEEN (Directorate of Energy Policy and Energy Efficiency). These data were “translated” to GHG emissions based on the spreadsheet models used for the estimation of annual GHG inventory. Since December 2019, the official energy planning is the current version of the NECP.
In addition, for the monitoring of the achievement of the mitigation targets and implementation of policies and measures for the period of 2021-2030, an Interministerial Technical Working Group has been established by MEEN with MD 73714/424/28-7-2020 (revised by MD 51149/386/18-05-2023). The main tasks of the group are:
1. The coordination for the implementation and monitoring of the proposals of the Interministerial Committee for Energy and Climate in the framework of the implementation of NECP.
2. The development of a governance framework, for the monitoring, control and supervision of the implementation of policies and measures, as well as the evaluation of the progress of the achievement of the national objectives by the year 2030, foreseen in NECP.
3. The preparation of the relevant progress reports in the framework of the Regulation on the Governance of the Energy Union (2018/1999/EU), as well as internal progress reports at the frequency to be determined by the Interministerial Committee.
4. Recommendation to the Interministerial Committee on Energy and Climate on the redesign of existing and the design of new policy measures, where appropriate and in the light of progress towards the objectives, with a view to achieving them and maximizing synergies between cross-sectoral policies.
This group is coordinated by MEEN and most of the entities of the national system of reporting PaMs and projection participate in this group including the inventory team (NTUA).

Accountability and transparency

Quality control activities

The evaluation of policies and measures and the compilation of projections are completed in three main stages:
Stage 1: The first stage consists of data collection and check for all source/sink categories. The main data sources used are the Hellenic Statistical Authority, the national energy balance, the national energy planning, the government ministries/agencies involved and large private enterprises, along with the verified reports from installations under the EU ETS.
Quality control of activity data and their projections include the comparison of the same or similar data from alternative data sources (e.g. Hellenic Statistical Authority and ETS reports) as well as time-series assessment in order to identify changes that cannot be explained. In cases where problems and/or inconsistencies are identified, the agency’s representative, responsible for data providing, is called to explain the inconsistency and/or help solving the problem.
Stage 2: Once the reliability of input data is checked and certified, emissions/removals per

source/sink category are estimated. Emissions estimates are then transformed to the format required by the templates required by Commission Implementing Regulation (EU) 2020/1208. This stage also includes the evaluation of the emission factors used and the assessment of the consistency of the methodologies applied in relation to the provisions of the IPCC Guidelines.
Quality control checks, when at this stage, are related to time-series assessment as well as to the identification and correction of any errors / gaps while estimating emissions / removals and filling in the required templates. The voluntary QA/QC checks contained in the reporting template of 2020/1208/EU are also implemented.
Stage 3: The last stage involves the compilation of the report and forms required by article 18 Regulation (EU) 2018/1999 (Governance Regulation) and its internal (i.e. within technical consultant) check. The official approval procedure follows for one-month period of interactions between the Inventory Team (NTUA) and MEEN, starting on the 1st of February of the year of submission. During this period, NTUA has to revise the report and / or templates/forms according to the observations and recommendations of MEEN. On the basis of this interaction process, the final version of the report and pertinent templates are compiled. The Director General for the Environment Policy of MEEN approves the report and templates/forms pursuant to Articles 18 of Regulation (EU) 2018/1999 and then MEEN submits them to the European Commission.
In addition, and within the context of the Quality Assurance/Quality Control system, one master file, which is called Centralised File, has been organized aiming at the systematic and safe archiving of information.
The Centralised File includes all information relevant to the evaluation of policies and measures and the preparation of projections. At the end of each cycle of reporting, all information is handled by NTUA to the person responsible for keeping the Centralised File in MEEN, who in turn provides the latest version of all relevant files (calculation files, templates and reports) to the working team at the beginning of the next reporting cycle.
More specifically the information stored in the Centralised Files includes:
-A list of the reports, the input data files and the calculation/estimation files.
-Final versions, in electronic format and hard copy, of the reports and templates according to Article 18 of Regulation (EU) 2018/1999.
-Calculation files.
-Documentation derived from the implementation of the QA/QC procedures.

Public participation

Stakeholder engagement

The mitigation policies, measures, projections and corresponding national targets were revised in Greece's updated NECP, which was submitted in January 2025. A thorough consultation process and involvement of various stakeholders took place before the publication of the plan. Please refer to section 1.6 of NECP.
Consultation with stakeholders, including the social partners, the civil society and the general public, were carried out at different stages of the process of drawing up the NECP. Please refer to chapter 1.6 of the NECP for more information.The BTR report is undergone a consultation procedure before approval by the members of the Interministerial Technical Working Group established by MD 73714/424/28-7-2020 (revised by MD 51149/386/18-05-2023). The members of the Interministerial Technical Working Group are responsible for coordinating and gathering feedback from the ministries and / or agencies that they represent in the Group.

Contact information for entities with overall responsibility for National Systems

The Ministry of Environment and Energy (MEEN) has the overall responsibility for the policy evaluation and for the projections of the anthropogenic GHG emissions and their official consideration and approval prior to their submission to European Commission (contact persons: Artemis Gryllia, a.gryllia@prv.ypeka.gr, Charikleia Chranioti, ch.chranioti@prv.ypeka.gr, Christina Pavlopoulou, ch.pavlopoulou@prv.ypeka.gr, Address: Patission 47, 11251 Athens, Greece, tel.: +30210 8665938).