



OECD ENVIRONMENTAL PERFORMANCE REVIEWS: Greece Questionnaire

PURPOSE

The Environmental Performance Review (EPR) will provide an independent assessment of progress made by Greece in achieving its domestic and international environmental policy commitments. It aims at identifying areas where recommendations from OECD could help Greece to strengthen its environmental performance, as well as good practices that could be helpful to other countries.

Your response to this questionnaire is meant to provide factual and policy information to support the discussions during the OECD review mission to Greece (25-28 June 2019 TBC). It is not meant to provide an official government position. Your reply to the questionnaire, the additional documentation provided, and discussions during the review mission will provide the basis for preparing the draft OECD report "Environmental Performance Review of Greece", which will be discussed at the meeting of the OECD Working Party on Environmental Performance in February 2020.

SCOPE

Your response to this request should focus on the period since 2005 for quantitative information (e.g. for environmental data), and since 2009 for policy-related information, unless some earlier policy measures had a specific impact on environmental trends during the decade.

This questionnaire is organised into sections which correspond to the chapters of the EPR report. For each section, you are requested to provide a narrative text and relevant data on the topics selected for the review.

The questionnaire also includes a table presenting the recommendations of the previous 2009 EPR. For each recommendation you are kindly requested to provide a brief narrative text describing how the recommendation has been implemented and what results have been achieved. Please feel free to refer to your reply to other sections of the questionnaire as appropriate, so as to avoid repetitions.

The reply to the questionnaire could refer to existing reports (paper copies, electronic versions or Internet links), as well as include sections thereof. Text submissions should be accompanied by supporting data, to the extent possible. These data should be country-specific and complement information already provided in response to the OECD-Eurostat questionnaire on the state of the environment and to other international data sources (e.g. EEA, Eurostat, UNFCCC).

The reply could be provided as one consolidated report or separate reports under each chapter heading.

Could you please return the country response by 15 March 2019 to:

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PART 1. PROGRESS TOWARDS SUSTAINABLE DEVELOPMENT

Section 1 – Key Environmental trends and policy measures

1.1 Overview of key environmental trends and policy measures

Please complete the following tables, one for each environmental theme covered in Chapter 1¹:

- Air emissions and pollution
- Water management
- Waste and materials management and circular economy

Each table should summarise the main environmental trends with respect to targets, the key factors underlying these trends and the projections (if available/appropriate). For each cell, write 1 to 2 paragraphs or a few bullet points and use indicators whenever possible. Please feel free to make reference to other documents, reports, websites etc. and to add tables/figures/data sheets.

Air emissions and pollution	
Key strategies, objectives and targets	<i>Please indicate the main strategic documents that sets policy objectives; please indicate the qualitative and quantitative objectives, with timeframes, specifying whether they are domestic objectives or international commitments</i>
Progress towards objectives/targets	<i>Please indicate progress made towards targets since 2005 and distance to target, using indicators as appropriate.</i>
Drivers	<i>Please indicate the main factors that have influenced trends since 2005 and progress in achieving targets: - socio-economic factors; - key policy measures</i>
Projections	<i>Please indicate projections, mid-term (e.g. to 2020) and long-term (e.g. to 2050), if available.</i>
Legislations and regulatory framework	<i>Please briefly describe the key pieces of legislation and the regulatory framework for air management, including ambient air quality standards and general and sector-specific emission standards, and the mechanism of setting emission limit values in permits. Please indicate the changes since the previous EPR (2009).</i>
Economic instruments	<i>Please indicate and briefly describe economic instruments used for air pollution management (e.g. emission taxes, pollution charges, emission trading), and/or provide any relevant document and study assessing effectiveness and efficiency of those instruments. Please indicate the changes since the previous EPR (2009).</i>
Sources	<i>Please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i>

¹ Climate change and biodiversity are covered in Part 2.

Water management	
Key strategies, objectives and targets	<i>Please indicate the main strategic documents that sets policy objectives; please indicate the qualitative and quantitative objectives, with time frame, specifying whether they are domestic objectives or international commitments.</i>
Progress towards objectives/targets	<i>Please indicate progress made towards targets since 2005 and distance to target, using indicators as appropriate.</i>
Drivers	<i>Please indicate the main factors that have influenced trends since 2005 and progress in achieving targets: - socio-economic factors; - key policy measures</i>
Projections	<i>Please indicate projections, mid-term (e.g. to 2020) and long-term (e.g. to 2050), if available.</i>
Legislations and regulatory framework	<i>Please briefly describe the key pieces of legislation and the regulatory framework: river basin planning, water quality standards, effluent standards (for wastewater treatment plants, industry sectors) and the mechanism of setting effluent limit values in permits. Please indicate the changes since the previous EPR (2009).</i>
Economic instruments	<i>Please indicate and briefly describe economic instruments used for water management (e.g. charges for drinking water and wastewater treatment), and/or provide any relevant document and study assessing effectiveness and efficiency of those instruments. Please indicate the changes since the previous EPR (2009).</i>
Sources	<i>Please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i>

Waste and materials management and circular economy	
Key strategies, objectives and targets	<i>Please indicate the main strategic documents that set policy objectives, including for the promotion of a circular economy; please indicate the qualitative and quantitative objectives, with time frame, specifying whether they are domestic objectives or international commitments.</i>
Progress towards objectives/targets	<i>Please indicate progress made towards targets since 2005 and distance to target, using indicators as appropriate.</i>
Drivers	<i>Please indicate the main factors that have influenced trends since 2005 and progress in achieving targets: - socio-economic factors; - key policy measures.</i>
Projections	<i>Please indicate projections, mid-term (e.g. to 2030) and long-term (e.g. to 2050), if available.</i>
Legislations and regulatory framework	<i>Please briefly describe the key pieces of legislation and the regulatory framework (e.g. environmental standards, permitting/licensing systems) for waste management and for improving resource efficiency and material productivity. Please indicate the changes since the previous EPR (2009).</i>
Economic instruments	<i>Please indicate and briefly describe economic instruments used for managing waste (e.g. waste collection charges, landfill taxes) and for improving resource efficiency and material productivity (e.g. taxes on extraction of raw materials), and/or provide any relevant document and study assessing effectiveness and efficiency of those instruments. Please indicate the changes since the previous EPR (2009).</i>
Sources	<i>Please indicate the main sources of information (websites, statistics, legislation, reports, etc.).</i>

1.2 Environmental quality of life

Please provide data and information and/or provide any relevant study assessing:

- the impacts of environment degradation and pollution on human health;
- the public perception of environmental quality and awareness of environmental issues.

Section 2 – Environmental governance and management

The purpose of this section is to collect information on the key features of the framework for policy-making, in order to better understand the trends described in Section 1.

2.1 Framework for environmental management

Please briefly describe:

2.1.1 Institutional framework

- 1) The institutional framework for environmental management and sustainable development (division of responsibilities).
- 2) The arrangements in place for horizontal co-ordination and co-operation among different institutions at the national level in policy development and implementation.
- 3) The arrangements in place for ensuring effective vertical co-ordination and co-operation between different levels of government (multi-level governance) for environmental management.

2.1.2 Monitoring and evaluation mechanisms

- 1) Mechanisms for ex ante and ex post evaluation of environmental legislation, policies and plans, including:
 - regulatory impact analysis;
 - cost-benefit analysis;
 - strategic environmental assessment;
 - sustainability impact assessment;
 - performance monitoring mechanisms and reporting (and indicators used).
- 2) Provide examples where these mechanisms have influenced policy development.

2.2 Regulation, enforcement and compliance

- 1) Briefly describe the Environmental Impact Assessment (EIA) process and provide information on its implementation (e.g. number of projects assessed by category, number of projects rejected, etc.); alternatively, please provide the most recent statistical report on this issue and any study assessing the effectiveness of EIA in influencing project design. Indicate how the EIA system is linked with environmental permitting.
- 2) Briefly describe the environmental permitting and licensing system: responsible institutions and agencies; key requirements; procedures; differences depending on the size and environmental impact of regulated facilities. Please indicate how the system of Integrated Pollution Prevention and Control is implemented and what the regulatory regime is for facilities with low environmental risk.
- 3) Briefly describe land-use/spatial planning arrangements, regulations and co-ordination mechanisms at the national and sub-national levels, and their evolution; describe how environmental considerations are integrated into land-use planning (e.g. via strategic environmental assessment).
- 4) Please provide information on inspection of regulated facilities (e.g. number of inspections per year and category of installations, number on detected non-compliance cases) and how they

are planned (random inspections, risk-based targeting, response to complaints, integrated or separate by regulatory regime); if possible, please provide the most recent statistics on this issue.

- 5) Briefly describe the non-compliance responses (administrative and criminal enforcement), sanctions and statistics of their actual use (at least over 5 years), the role of the police, prosecutors and the judiciary.
- 6) Describe the regime of liability for damage to the environment (strict or fault-based), with respect to current and past pollution of soil and water bodies and destruction of ecosystems and biodiversity; the use of insurance and other financial guarantees;
- 7) Provide information on the identification and clean-up of contaminated sites, including aftercare of landfills, and how it is financed. Include information about policy developments, remediation standards and monitoring, key factors of success and remaining obstacles.
- 8) Please provide information on new voluntary agreements between government and industry, corporate social responsibility initiatives, the use of, and incentives for, environmental management systems, eco-labelling and other green certifications, green public procurement, other initiatives and mechanisms to promote compliance and green practices among the regulated community, particularly small and medium-sized enterprises.

2.3 Environmental democracy

- 1) Mechanisms and instruments to ensure access to environmental information; recent developments in monitoring and reporting activities on the state of the environment, sustainable development and green growth, such as new reports and new indicators; provisions to ensure access to company environmental data (e.g. Pollution Release and Transfer Register).
- 2) Mechanisms for stakeholder and public participation (e.g. citizens, non-governmental organisations, industrial associations) in decision making at the national and sub-national level, including development of policies, laws and regulations, EIA and permitting, and land-use planning.
- 3) Public access to justice in environmental matters (right of administrative and judicial appeal, legal standing of NGOs, judicial review of proceedings).
- 4) Policies and practices to provide environmental education and raise environmental awareness (e.g. environmental curricula in schools and universities, adult environmental education).

Section 3 – Towards Green Growth: market-based Instruments and transition measures

The purpose of this section is to collect information on the environmental policy mix, in order to assess its economic efficiency and its effectiveness in influencing the trends described in Section 1.

3.1 Main priorities/initiatives for sustainable development and environmental management

- 1) Please describe the strategic framework for sustainable development and/or green growth (e.g. national strategy or agenda for sustainable development).
- 2) Please indicate (maximum 5) key policy initiatives since 2009, reflective of Greece's policy priorities in integrating environmental policy and other sectoral policies (e.g. agriculture, mining, energy, transport).

3.2 Taxation, economic instruments and subsidies

- 1) Please ensure that the information on Greece included in the OECD database on Policy Instruments for the Environment (<https://pinedatabase.oecd.org/>) is correct and up-to-date. Alternatively, please provide the most recent statistical report on environmentally related taxes.
- 2) Briefly describe the main changes introduced in fuel and vehicle taxes, pollution taxes (e.g. on emission to air and water) and resource taxes (e.g. on water abstractions, forest, fishery and mining), and/or provide any relevant document and study assessing effectiveness and efficiency of those instruments. Please provide information on tax rates, tax bases and exemptions, and on their changes since 2009. Please provide environmental tax revenue data by type of tax since 2009.
- 3) Please provide any relevant data and information on subsidies and state aid provided to:
 - production and consumption on energy products;
 - provision and use of public transport services;
 - agriculture and forestry;
 - fishery;
 - mining and quarrying;
 - industrial activities;
 and/or provide any relevant document and study assessing environmental and economic impacts of such subsidies.
- 4) Please provide data on tax expenditure of environmental significance, i.e. on revenue losses due to discounts, exemptions and other of allowances that reduce the tax base (e.g. exemptions on excise duties on energy products, corporate tax credits for investment in renewable energy sources).
- 5) Indicate and briefly describe any form of support given to environmentally friendly behavior, product or service (e.g. bonuses for fuel efficient appliances), and/or provide any relevant document and study assessing effectiveness and efficiency of such support.

3.3 *Environment-related expenditure and financing*

- 1) Please briefly describe, and/or indicate relevant documentation on the environmental component of the government's budget and growth and stability plan(s).
- 2) Please ensure that the information provided in Greece's reply to the Eurostat Questionnaire on Environmental Protection Expenditure Accounts, is up-to-date. Alternatively, please provide the most recent statistical report on this issue.
- 3) Provide data and any relevant information on public and private expenditure for "green investments" (other than directly for environmental protection), including water supply, renewable energy sources, energy efficiency, sustainable transport infrastructure.
- 4) Provide data and any relevant information on financing sources for the construction of environment-related infrastructure and the provision of environmental services, including:
 - national/local public funds;
 - co-financing from EU sources;
 - revenue from charges for environmental services; please provide an assessment of the degree of cost recovery through fees and charges (e.g. waste and water charges).
- 5) Please describe the mechanisms and instruments in place to mobilize private sector investment for environmental purposes, including initiatives involving the financial sector.

3.4 *Environmental goods and services (EGS) sector*

- 1) Please provide data and information (or provide the most recent statistical report) on the trends in the environmental goods and services sector (e.g. value added, export/import), including the renewable energy and energy efficiency sectors; please specify the area covered.
- 2) Please provide information about the role of the private sector in providing environmental services such as waste management, wastewater treatment and water supply.
- 3) Indicate and briefly describe policies and measures to support the EGS sector (e.g. labelling, public procurement).
- 4) Please provide any study that assesses the impacts on the EGS sector of environmental policies or of specific policy measures.

3.5 *Eco-innovation*

- 1) Indicate and briefly describe eco-innovation priorities and strategies to promote eco-innovation.
- 2) Indicate and briefly describe the institutional setting and governance for eco-innovation, including mechanisms for policy evaluation and monitoring.
- 3) Indicate and briefly describe policies and measures to promote eco-innovation:
 - supply side measures: investment (public and private) in environment- and climate-related research and development (R&D expenditure and personnel), demonstration and commercialisation; networks and partnerships; information services;
 - demand side measures, including green public procurement and demand support (e.g. financial incentives); technology transfer.
- 4) Please indicate any relevant study assessing:
 - effectiveness and economic efficiency of policy measures to promote eco-innovation;

- impacts of eco-innovation in terms of improved environmental performance, resource productivity and energy efficiency.
- 5) Provide some examples of innovations that reduce pollution or increase environmental efficiency.

3.6 Social consequences

1) Distributional implications

- Please provide information on disparities in access to environmental services: regions, social groups, gender.
- Please provide information on disparities in exposure to environmental health risks (e.g. pollution, hazards); regions, social groups, gender.
- Please briefly indicate measures taken for integrating poverty and distributive concerns in environmental policy decisions (e.g. social tariffs, increases in social welfare payments etc.).
- Please provide any document or study assessing the distributional implications of environmental policy or of some specific policy measures.

2) Employment

- Please provide data and information (or provide the most recent statistical report) on:
 - employment in the environmental goods and services sectors, including the renewable energy and energy efficiency sectors;
 - graduates in environmentally related subjects
- Please provide any document or study that assesses the direct and indirect employment impacts of environmental policies or of specific policy measures.

3.7 Environment, trade and development

- 1) Please describe objectives/ priorities of Greece's international co-operation on environment.
- 2) Please describe bilateral and regional co-operation.
- 3) Please provide any document assessing environmental impacts of trade and investments flows and mechanisms in place to minimise adverse impacts (e.g. implementation of OECD guidelines on multinational enterprises, environmental provisions of export credits, environmental provisions in regional/bilateral trade agreements, corporate social responsibility).
- 4) Please provide information on the enforcement of trade-related provisions of multilateral environmental agreements (smuggling, mislabelling, etc.).
- 5) Please briefly describe and/or indicate relevant documentation concerning the integration of environment/climate/biodiversity in development co-operation, with particular reference to:
 - quantitative data on aid directed to environment-, climate- and biodiversity-related projects in partner countries;
 - mechanisms to ensure that environmental issues are taken into considerations in development activities that are not environment-related (e.g. environmental impact assessment procedures).

PART 2. PROGRESS TOWARDS SELECTED ENVIRONMENTAL OBJECTIVES

Section 4 – Climate change mitigation and adaptation

The purpose of this section is to collect information on the various aspects of climate policy in Greece in order to assess its effectiveness and its economic efficiency.

4.1 Climate change mitigation

- 1) Please complete the following table on climate change mitigation. As a lot of information is available in [Greece 7th National communication and 3rd biennial report under the UNFCCC](#) and [Greece NIR 2018](#), please feel free to make reference to these (and other) reports, websites etc. Please indicate updates/changes since these reports were submitted.

Climate change mitigation	
Objectives and targets	<i>Please indicate key strategies and policies in climate change mitigation, their quantitative objectives, with time frame, specifying whether they are domestic objectives or international commitments.</i>
Progress towards objectives/targets	<i>Please indicate progress made towards targets during since 2005 and distance to target, using indicators as appropriate.</i>
Drivers	<i>Please indicate the main factors that have influenced trends since 2005 and progress in achieving targets: - socio-economic factors; - key policy measures.</i>
Projections	<i>Please indicate projections, short-term (e.g. to 2020), mid-term (e.g. to 2030) and long-term (e.g. to 2050), if available.</i>
Legislations and regulatory framework	<i>Please briefly describe the key pieces of legislation and the regulatory framework for mitigating GHG emissions.</i>
Institutional framework	<i>Please provide information on the institutional framework for climate change mitigation and the arrangements in place for co-ordination and co-operation among different institutions and agencies (at national and sub-national levels).</i>
Economic instruments	<i>Please indicate and briefly describe economic instruments used for mitigating GHG emissions (e.g. carbon tax, vehicle taxes, EU ETS), and/or provide any relevant document and study assessing effectiveness and efficiency of those instruments.</i>
Sectoral measures	<i>Please indicate the main regulatory and economic measures in place to mitigate GHG emissions from: - energy production and use (renewable energy sources and energy efficiency), such as energy efficiency standards, energy labelling, renewable tradable certificates and subsidies; - transport, such as vehicle standards, biofuel obligations, fuel prices and taxes, road pricing, congestion charges; - agriculture, forestry and fishery; - Waste; and provide any relevant document and study assessing effectiveness and economic efficiency of those measures.</i>
Sources	<i>Please indicate the main sources of information (websites, statistics, legislation, reports, etc.).</i>

4.2 Climate change adaptation

4.2.1 Current and projected impacts of climate in Greece

- 1) Please provide quantitative and qualitative information on the current and projected impacts of climate change on:
 - the country's physical conditions, such as temperature increases, changes in rainfall and snowfall, extreme weather events, snow melting; vulnerable areas;
 - the economy; infrastructure; vulnerable economic sectors; biodiversity;
 - society, such as health, distributional implications and impacts on low-income households.
 For each item, please indicate the main sources of information (websites, statistics, reports, etc.) and whether or not the information is available at the resolution needed for local, regional or national-level decisions.
- 2) If there has been an assessment of the overall costs of climate change to Greece, please include details on methodology and results.

4.2.2 The strategic framework

- 1) Please indicate qualitative and quantitative objectives and policy priorities related to climate change adaptation, with time frame; please specify whether they are domestic objectives or international commitments.
- 2) Please provide information on Greece's national adaptation strategy. In particular:
 - What kind of consultation procedures were put in place to develop the strategy?
 - What is its legal status?
 - What kind of follow-up mechanisms does it foresee?
 - What are the main objectives and priorities of the strategy? How were these objectives/priorities identified?
 - Which are the main economic sectors and social groups involved?
 - What are the main policy measures and instruments? How were they selected?
 - Does the strategy include budget allocations?
 - What are the links between the adaptation strategy and the climate change mitigation strategy/plan?

Please provide any relevant documentation.

4.2.3 Governance for adaptation policy

- 1) Please describe the institutional arrangements for adaptation, including the arrangements for coordination among agencies and different level of governments (e.g. central coordination units).
- 2) Please provide information about Greece's activities to improve information about climate change impacts and inform decision-making; please provide information about research and development activities related to adaptation to climate change and prevention of/response to natural hazards.
- 3) Please describe the instruments used to mainstream adaptation priorities throughout government operations; in particular:
 - Is climate adaptation integrated in Environmental Impact Assessment and Strategic Environmental Assessment procedures? How?

- Is climate adaptation integrated in other forms of sustainability impact assessment or in regulatory impact assessment? How?
 - Are other climate-proofing tools currently and systematically applied?
 - Are there links between climate change adaptation and relevant policy areas, such as biodiversity and health?
- 4) Please provide information on any measures to assess or increase the private sector's resilience to climate change. For example, provision of information, regulations, fiscal measures, risk assessments etc.
- 5) Please provide information about the financing mechanisms currently in place for adaptation policies and measures, including budgetary allocations, market-based instruments, public-private partnership, insurance mechanisms.

Please indicate the main sources of information (websites, statistics, reports, etc.)

4.2.4 Mainstreaming adaptation in sectoral policies

- 1) Please describe the measures that have been implemented to prepare for and respond to climate-related hazards in vulnerable sectors, in particular in:
- Agriculture and forestry;
 - Buildings and housing;
 - Tourism;
 - Strategic infrastructure, such as energy, transport and water infrastructure.
- 2) Please identify the main natural hazards in Greece (e.g. floods, windstorms) and describe the measures implemented to reduce and manage those risks at the state, regional and local level. Identify any changes that have been made to these arrangements in response to current or projected climate change impact.

Please indicate the main sources of information (websites, reports, etc.)

4.2.5 Local initiatives

- 1) Please describe the role of local governments in climate change adaptation policies and management of natural hazards.
- 2) Please provide a few examples (maximum three) of good practices at local level.

4.2.6 Monitoring and evaluation

- 3) Please describe the mechanism and instruments in place to monitor and evaluate climate adaptation policies and impacts of climate change.

Section 5 – Biodiversity

The purpose of this section is to collect information on the various aspects of biodiversity policy in Greece in order to assess its effectiveness and its economic efficiency.

5.1 Pressures, state, and trends

- 1) Please complete the following table on biodiversity conservation and sustainable use. The table should summarise the main biodiversity trends with respect to targets, the key factors underlying these trends and the projections (if available/appropriate). For each cell, write a few paragraphs or a few bullet points and use indicators whenever possible. Please feel free to make reference to other documents, reports, websites etc. and to add tables/figures/data sheets.

Biodiversity	
Objectives and targets	<i>Please indicate qualitative and quantitative objectives, with timeframes, specifying whether they are domestic objectives or international commitments (e.g. CBD, UNFCCC, UNCCD, CITES).</i>
Progress towards objectives/targets	<i>Please indicate progress made towards targets during the review period (since 2009) and distance to target, indicators of state and trends of:</i> <ul style="list-style-type: none"> – species, including threatened species and alien species; – ecosystems (terrestrial, forests, freshwater and marine ecosystems); – land use and land-use change; – fragmentation and degradation of habitats and ecosystems.
Drivers and pressures	<i>Please indicate the main factors that have influenced trends since 2009 and progress in achieving targets:</i> <ul style="list-style-type: none"> – pressures on species and ecosystems (e.g. from agriculture, hunting/forestry/fishing, mining and quarrying, infrastructure, pollution, invasive alien species, climate change); please provide data. – key policy measures.
Projections	<i>Please indicate projections, mid-term (e.g. to 2020) and long-term (e.g. to 2050), if available.</i>
Sources	<i>Please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i>

- 2) Please complete the following table on protected areas. The table should summarise the main trends with respect to targets, the key factors underlying these trends and the projections (if available/appropriate). For each cell, write a few paragraphs or a few bullet points and use indicators whenever possible. Please feel free to make reference to other documents, reports, websites etc. and to add tables/figures/data sheets.

Protected areas	
Objectives and targets	<i>Please indicate qualitative and quantitative objectives, with time frame, specifying whether they are domestic objectives or international commitments (e.g. CBD, Ramsar).</i>
Progress towards objectives/targets	<p><i>Please indicate progress made towards targets during the review period (since 2009) and distance to target, including:</i></p> <ul style="list-style-type: none"> <i>– number and area extension of terrestrial and marine protected areas;</i> <i>– type of areas;</i> <i>– correspondence of protected areas to ecosystem and species conservation needs;</i> <i>– progress towards the Aichi target on protected areas;</i> <i>– conservation status of species, habitats and ecosystems in protected areas, and development since 2009.</i> <p><i>Please provide a list of protected areas.</i></p>
Drivers	<p><i>Please indicate the main factors that have influenced trends since 2009 and progress in achieving targets:</i></p> <ul style="list-style-type: none"> <i>- socio-economic factors;</i> <i>- key policy measures.</i>
Projections	<i>Please indicate projections, mid-term (e.g. to 2020) and long-term (e.g. to 2050), if available.</i>
Sources	<i>Please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i>

5.2 Institutional and policy framework

- 1) Please describe the institutional framework for biodiversity policy: role of national and local governments and communities; mechanisms to ensure horizontal and vertical co-operation among institutions.
- 2) Please indicate the main legislation and strategies concerning biodiversity conservation and sustainable use, including legislation about protected areas.
- 3) Please indicate the mechanisms in place to evaluate biodiversity and ecosystem services and to use economic evaluation methods (e.g. cost-benefit analysis) for policy making, e.g. to set objectives and define policy measures. Have you prepared or are you considering the preparation of a National Ecosystem Assessment?
- 4) Please explain if and how biodiversity considerations are taken into account in environmental impact assessment procedures and in land use/spatial planning (including transport and urban development).

- 5) Describe the regulatory, economic and information instruments in use for managing biodiversity, on the basis of the following table.
- 6) Please describe bilateral and regional co-operation on protected areas (e.g. transboundary protected areas); indicate protected areas of international significance.

Regulatory (Command-and-Control) Approaches	Economic Instruments	Information and Other Instruments
Restrictions or prohibitions on use (e.g. trade in endangered species and CITES) or on access (e.g. protected areas).	Price based instruments, credits and incentives Taxes (e.g. groundwater, pesticide and fertiliser use) Charges/Fees (e.g. for natural resource use, access to National Parks, hunting or fishing license fees) Subsidies	Eco-labelling and certification (e.g. organic agriculture labeling schemes, sustainably harvested fish or timber labels)
Performance based standards; quality or quantity standards, often enforcing the use of specific technologies (e.g. commercial fishing net specifications)	Diagnosis and Reform of environmentally harmful subsidies	Voluntary Agreements (e.g. between businesses and government for nature protection or voluntary offset schemes)
Permits and quotas (e.g. logging and fishing)	Payment for Ecosystem Services	Public procurement (e.g. of sustainably harvested timber)
Liability instruments Non-compliance fines Performance bonds	Biodiversity offsets/Biobanking	Environmental guidelines and criteria for including biodiversity objectives in productive activities or sectors.
Environmental Impact Assessment Environmental strategic evaluation Territorial planning	Tradable permits (e.g. ITQs for fisheries)	MRV (Measuring, Reporting, and Verification) Environmental accounts on biodiversity

- 7) Please describe the role of non-governmental organisations and the private sector in the management of biodiversity.

5.3 Mainstreaming biodiversity into different economic sectors and policy areas

- 1) Please describe the main impacts each of the following sectors has on biodiversity and measures taken to ensure that each of the following economic activities are compatible with biodiversity conservation and sustainable use:
 - agriculture, fishery and forestry;
 - urban sprawl;
 - infrastructure development and other land use changes;
 - industry;
 - tourism;
 - mining.
- 2) Please describe how biodiversity policies are integrated with water resource management and climate change mitigation and adaptation policies.
- 3) Please provide data on employment in biodiversity-related activities and employment opportunities inside and outside protected areas (e.g. in forestry, agriculture, tourism, etc.).
- 4) Please provide data on national expenditure on biodiversity (conservation and sustainable use).
- 5) Please provide information on the institutional mechanisms and public financing instruments to promote R&D in biodiversity; what instruments are in place to mainstream biodiversity objectives in sectorial funds for research and innovation?

PART 3. ACTIONS TAKEN TO IMPLEMENT THE 2009 OECD ENVIRONMENTAL PERFORMANCE REVIEW RECOMMENDATIONS AND RESULTS ACHIEVED

This table presents the recommendations of the previous Environmental Performance Review (EPR) of Greece, released in 2009. For each recommendation, you are kindly requested to provide a brief narrative text describing the main policy measures implemented to follow-up on the recommendation, the results achieved and the main sources of information. The responses should focus on the period since 2009. Please feel free to refer to existing reports (paper copies, electronic versions or Internet links), as well as include sections thereof.

RECOMMENDATIONS	ACTIONS TAKEN	RESULTS ACHIEVED	SOURCES
1. Environmental Management			
<i>Strengthening the implementation of environmental policies</i>			
<ul style="list-style-type: none"> • Further strengthen the visibility, human and financial resources, and influence of the <i>environmental administration</i> at all levels. • Strengthen overall <i>environmental financial efforts</i>, moving progressively towards full implementation of the polluter-pays and user-pays principles. • Implement plans to strengthen the financial and human resources devoted to the new environmental inspectorate; continue to promote <i>compliance with and enforcement of environmental and land use regulations</i>. • Review and revise prices, taxes and subsidies, with the aim of internalising environmental externalities; expand the use of <i>economic instruments</i> to serve environmental objectives. • Strengthen the analytical basis for decision-making, including <i>environmental data</i>, and <i>economic information</i> on the environment (e.g. environmental expenditure, environment-related taxes, resource prices, employment). 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>

RECOMMENDATIONS	ACTIONS TAKEN	RESULTS ACHIEVED	SOURCES
<i>Air</i>			
<ul style="list-style-type: none"> Further <i>reduce air emissions</i>, especially SO₂ emissions from electricity generation (e.g. lignite fired power plants) and VOCs emissions from transport, so as to meet national emission ceilings; strengthen the <i>monitoring and management of particulate matter</i> (including PM_{2.5}) and <i>ground level ozone</i>. Strengthen efforts on <i>energy demand-side management</i> and on market-oriented instruments to achieve more effective and efficient energy use: review the <i>energy price</i> levels and structure, and assess the impact of exemptions and subsidies. Continue <i>the shift towards cleaner fuels</i> (e.g. natural gas, low sulphur oil) and <i>renewables</i> for electricity generation and end-use. Continue to invest in <i>efficient and reliable public transport systems</i>, including in cities other than Athens; further develop transport demand management in urban areas. Review <i>transport prices and taxes</i>, to better internalise environmental impacts and reflect vehicle environmental performance and fuel efficiency (e.g. linking vehicle taxes to the EU CO₂ vehicle labelling). Address <i>air pollutant emissions from ships</i>, e.g. taking measures to improve vessel performance and fuel quality. 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>
<i>Water</i>			
<ul style="list-style-type: none"> Continue efforts to fully comply with the <i>EU Water Framework Directive</i>. Formulate and implement a <i>national irrigation policy</i>, integrating agronomic, water and environmental policy objectives, which promotes the rational use of water, aims to reduce groundwater abstractions and to improve irrigation efficiency and practices in both 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>

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<p>communal and private irrigation networks, and ensures that all water abstractions are properly licensed.</p> <ul style="list-style-type: none"> • Further <i>improve wastewater management</i>, in compliance with the EU Urban Waste Water Directive, and consider the wastewater treatment needs of smaller settlements; encourage utilities to improve water quality assurance (<i>e.g.</i> through participation in international benchmarking). • Intensify efforts to <i>reduce water pollution</i> by dangerous substances, to prevent illegal discharges of wastewater, and clean up pollution hot spots. • Introduce new measures to improve the <i>allocation of water</i> to ensure water flows to the highest-value uses. • Raise greater <i>public awareness and understanding</i>, particularly among farmers, of the economic, social and environmental aspects of water management. 			
<i>Nature and biodiversity</i>			
<ul style="list-style-type: none"> • Adopt and implement the <i>National Biodiversity Strategy and Action Plan</i>, as a comprehensive action-oriented framework for ecosystem and species conservation at both national and local levels; set time-bound objectives and periodically evaluate progress. • Continue to extend <i>protected areas</i>, particularly including coastal areas and marine ecosystems; complete the implementation of the <i>Natura 2000 network</i>; ensure that all protected areas are provided with management plans and adequate conservation measures. • Further improve the <i>human and financial capacity</i> for nature conservation and the management of protected areas; review the future evolution of the funding system of biodiversity management, with substitutes to EU contributions (<i>e.g.</i> increased use of economic 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>

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<p>instruments; contribution of national and local public and private funding).</p> <ul style="list-style-type: none"> • Increase and disseminate <i>knowledge on the conservation status of species</i>; carry out systematic monitoring of endangered and threatened species, and evaluate the effectiveness of protection projects. • Improve the integration of biodiversity concerns into the <i>agricultural sector</i>, through a targeted use of agri-environmental schemes and specific educational programmes. 			
2. Towards Sustainable Development			
<i>Integrating environmental concerns into economic decisions</i>			
<ul style="list-style-type: none"> • Include appropriate <i>targets and objectives</i> in the revised National Strategy for Sustainable Development. • Utilise fully the <i>institutions on sustainable development</i> now in place to ensure the implementation of the revised National Strategy for Sustainable Development; continue focusing sector integration and sound long-term planning with a view to achieve a low-carbon, energy and material efficient economy. • Expand the use of economic instruments as part of a green <i>fiscal reform</i> (e.g. energy taxation, progressive car taxation in relation to pollution). • Progressively eliminate <i>environmentally harmful subsidies</i> (e.g. agriculture water tariffs); consider replacing tax exemptions (e.g. on heating oil) with more targeted social compensation schemes. • Review the economic efficiency of <i>environmental subsidies</i> (e.g. to renewable energy sources) and revise them accordingly. 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>

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<i>Integrating environmental and social decisions</i>			
<ul style="list-style-type: none"> • Implement the <i>environmental health action plan</i>; priorities for action should be based upon scientific research and economic analysis (e.g. reduced health expenditure, improved labour productivity, improved well-being). • Further develop an active and long-term <i>environmental employment policy</i>. • Continue efforts to collect, process and disseminate <i>environmental information</i> at national and territorial government levels. • Continue to encourage more active <i>public participation associated with decision-making</i>, as well as effective implementation of provisions for access to environmental justice and follow-up to judicial decisions; enhance the effectiveness of consultation procedures. • Take further steps towards the integration of environmental themes at all stages of <i>education</i>, including professional training. 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>
<i>Strengthening land use and spatial planning</i>			
<ul style="list-style-type: none"> • Streamline the <i>administrative procedures</i> associated with environmental impact assessments and the application for planning and building permits; reduce building and housing <i>construction without prior planning</i>. • Ensure adequate control and strict enforcement of the existing legal framework regarding <i>construction without prior building permit</i>. • Complete the <i>National Cadastre and the National Forest Registry</i> as soon as possible. • Adopt and implement the proposed Framework Plans for <i>Coastal Areas and Islands</i> and for <i>Mountainous Areas</i>; set up a transparent monitoring system to <i>track and report on the effectiveness of the Frameworks</i> for Spatial Planning and Sustainable Development. 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>

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<ul style="list-style-type: none"> • Increase the rate of <i>reforestation of burned and degraded forestlands</i>. • Raise <i>awareness and understanding of sustainable development</i> among the major stakeholder groups and in the Greek society at large. 			
3. International Co-operation			
<ul style="list-style-type: none"> • Continue efforts to <i>reduce greenhouse gases</i> with a view to achieving the EU emissions reduction target set for Greece; enhance efforts on energy efficiency and renewable energy sources. • Encourage Greek leadership within the IMO-ILO-UNEP framework in support of the <i>Convention on the Safe and Environmentally Sound Recycling of Ships</i>. • Strengthen the protection of <i>water quality in near shore marine areas and bays</i> through improved development siting, upgraded wastewater treatment and effective enforcement of existing national and EU environmental legislation and regulations; ensure that the environmental regulations governing water quality in the <i>aquaculture industry</i> are adequate to protect human health and environmental sustainability, and are fully enforced. • Strengthen <i>customs inspection and enforcement capacity</i> (expanded staff, improved training, better technology) to control illegal trade in endangered species, ozone depleting substances and hazardous waste. • Further utilise bilateral, regional and multilateral mechanisms to expand <i>co-operation with neighbouring countries</i> on the environmental management of transboundary waters. • Strengthen the environmental content of the <i>Development Assistance Programme</i> as it continues to grow, while ensuring that major development projects funded by Greece are subject to environmental reviews, where appropriate. 	<p><i>For each recommendation, please list and briefly describe the main policy measures implemented to follow-up on the recommendation.</i></p>	<p><i>For each recommendation, please indicate the key results achieved by means of the implemented measures, using quantified indicators when appropriate. Please provide relevant statistical data.</i></p>	<p><i>For each recommendation, please indicate the main sources of information (websites, statistics, legislation, reports, etc.)</i></p>
<p><i>Source: OECD, Environment Directorate, Environmental Performance Reviews:Greece, 2009.</i></p>			