



Lithuanian Climate Change Mitigation Policy (target setting under the ESD) and Its Implementation

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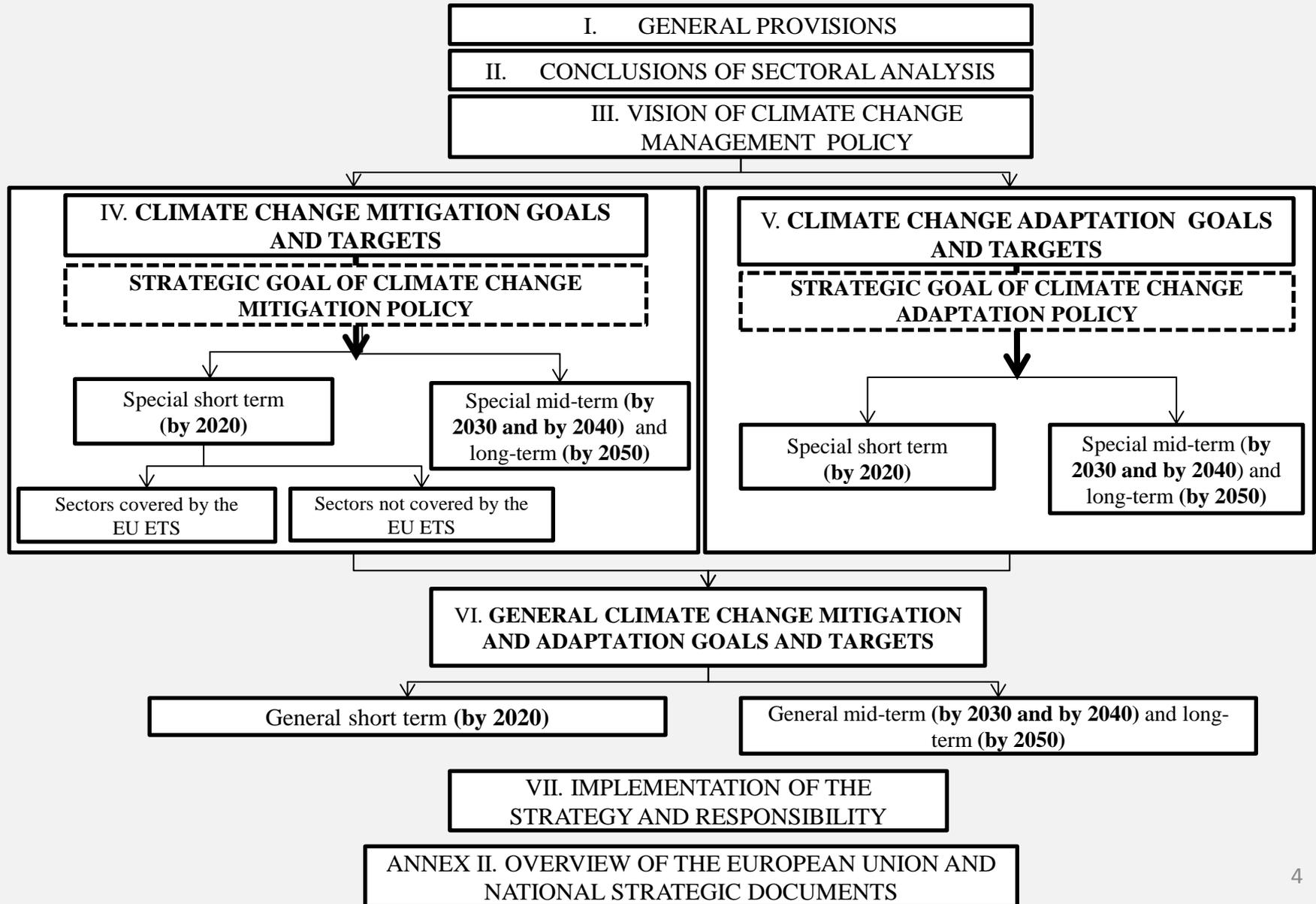


- The Strategy for the National Climate Change Management Policy by 2050, adopted on 6 November 2012 by the Decree No XI-2375 of the Parliament of the Republic of Lithuania

<http://www.am.lt/VI/files/File/Lankstinukas%20Klimato%20kaita%20ENG.pdf>

- Action Plan on the Implementation of the Goals and Objectives for 2013-2020 of the Strategy for the National Climate Change Management Policy, adopted on 23 April 2013 by the Government Resolution No 366 of the Government of the Republic of Lithuania (*measures for 2013-2016*)
- Draft Action Plan with measures for 2015-2017 under coordination

The Structure of the Strategy for National Climate Change Management Policy by 2050



Goals of the Lithuanian Climate Change Mitigation Policy



Strategic goal: To achieve that the national economy growth would be faster than the increase of GHG emissions. The evaluation parameter – the GHG emissions per GDP unit (t CO₂ e/1 mln. Lt GDP) will be applied for the monitoring of the implementation of this strategic goal.

The strategic goal will be accomplished by implementing the following targets:

1. Ensuring implementation of Lithuanian short-term climate change mitigation targets by 2020:

- - To achieve that GHG emission in the sectors covered by the EU emission trading system (EU ETS) would not exceed 8.53 mln. t CO₂e.
- - To achieve that GHG emission in the sectors not covered by the EU ETS would not exceed 15.46 mln. t CO₂e in the case of 20 % EU target scenario. Annual GHG emission allocations are determined for the period of 2013–2020 to ensure the implementation of these targets.
- - To achieve that the use of RES in the final energy consumption balance would be no less than 23%.
- - To consume 1.5% less energy annually (to consume 17 % less energy in 2020 compared to 2009 level).
- - To achieve that no less than 0.38 % of national GDP in 2020 would be assigned for the implementation of the short-term climate change mitigation targets.



2. Ensuring implementation of main Lithuania's mid-term and long-term climate change mitigation milestones:

Contributing to the implementation of the EU GHG emission reduction milestones as defined by “A Roadmap for moving to a competitive low carbon economy in 2050”:

- Mid-term – to reduce 40% of GHG emissions by 2030 and to reduce 60 % of GHG emissions by 2040 below 1990 level.
- Long-term – to reduce 80 % GHG emission by 2050 below 1990 level.

Target setting under the ESD

- In the Strategy annual GHG emission allocation (reduction target) in non - EU ETS sectors is proportionally allocated among sectors determining “**carbon budget**”.
- **Quantitative annual GHG emission reduction targets in mln t CO₂e determined for transport, agriculture, waste management, non-ETS industries and other sectors** are set as assessment criteria in Action Plan.
- Monitoring of GHG emissions and control of the achievement of GHG emission targets set for individual non- EU ETS sectors, including **transport, agriculture, waste management and non-ETS industries**, is carried out according to the annual National Greenhouse Gas Inventories, in which data about GHG emissions are accounted by individual sectors.
- The remaining part of the overall target is attributed to **other sectors**.

Quantitative annual GHG emission reduction targets in the sectors not covered by the EU ETS by 2013-2020 in case of 20 % EU target scenario, mln. t CO₂e, determined by **the Commission Decision 2013/162/EU of 26 March 2013 and adjusted by the Commission implementing Decision 2013/634/EU of 31 October 2013**

	2013	2014	2015	2016	2017	2018	2019	2020
Transport	3.925	4.044	4.138	4.260	4.351	4.473	4.595	4.707
Agriculture	4.115	4.239	4.337	4.465	4.561	4.689	4.816	4.934
Industry	1.976	2.036	2.083	2.145	2.191	2.251	2.313	2.370
Waste management	1.272	1.311	1.341	1.81	1.411	1.450	1.489	1.526
Other sectors	1.612	1.661	1.699	1.749	1.787	1.837	1.887	1.934
Total	12.936	13.297	13.658	14.019	14.38	14.741	15.102	15.463
LT projected implementation of the GHG reduction targets with additional measures	-0.913	-0.676	-0.210	+0.122	+0.477	+0.805	+1.310	+1.983
COM projected implementation of the GHG reduction targets	-0.648	-0.343	+0.264	+0.568	+0.871	+0,871	+1.173	+1.476

Quantitative annual GHG emission reduction targets and projected emissions with additional measures, mln. t CO₂e, in the sectors not covered by the EU ETS by 2013-2020

	2013	2014	2015	2016	2017	2018	2019	2020
Transport	3.925 5.013	4.044 5.010	4.138 4.980	4.260 5.015	4.351 5.021	4.473 5.025	4.595 5.031	4.707 4.985
Agriculture	4.115 5.396	4.239 5.487	4.337 5.248	4.465 5.255	4.561 5.267	4.689 5.279	4.816 5.178	4.934 5.109
Industry	1.976 1.059	2.036 1.140	2.083 1.615	2.145 1.614	2.191 1.613	2.251 1.613	2.313 1.612	2.370 1.612
Waste management	1.272 943	1.311 899	1.341 590	1.81 580	1.411 570	1.450 558	1.489 543	1.526 344
Other sectors	1.612 1.437	1.661 1.435	1.699 1.433	1.749 1.431	1.787 1.430	1.837 1.428	1.887 1.427	1.934 1.425
Total (targets)	12.936	13.297	13.658	14.019	14.38	14.741	15.102	15.463
LT projected GHG with additional measures	13.849	13.973	13.868	13.897	13.903	13.905	13.792	13.477

Rules on the use of flexibility measures under ESD are set by



- Law on financial instruments for climate change management, Art 9 (5)
- Order of the Minister of Environment of 2 April 2013 No D1-226 on the Approval of the Procedure on Use of Kioto units and flexibility measures for the compliance with the annual GHG emission allocations
- Order of the Minister of Environment of 13 November 2013 No D1-817 on the Approval of the Rules on the Use of Union GHG Registry

National strategic documents related to low carbon development:



- National Reform Programme (2011)
- National Sustainable Development Strategy (2003, 2011)
- National Progress Programme (2012)

Sectoral strategies and programmes related to low carbon development:



- National Renewable Energy Resources Development Strategy (2010)
- National Energy Independence Strategy (2012)
- National Renewable Energy Resources Development Strategy (2010)
- National Energy Independence Strategy (2012)
- National Communication Development Program for 2014-2022 (2013)
- National Strategy Plan 2007-2013 Rural Development
- National Forest Area Expansion Program 2012-2020 (2012)
- National Strategic Plan 2014-2020 for Waste Management (2014)
- Multi-apartment buildings renovation program (2004, revised in 2013)



Action Plan on the Implementation of the Goals and Objectives for 2013-2020 of the Strategy for the National Climate Change Management Policy



- The Action Plan is developed according the methodology of strategic planning.
 - The methodology is approved by the Government of the Republic of Lithuania
 - The Action Plan sets measures for 3 years and updated annually

- Action plan consists of:
 - General provisions
 - Targets, objectives, measures, financial resources and implementing institutions
 - Assessment criteria and values

I. Climate Change Mitigation Measures



- Measures for sectors, covered by the EU ETS

- Measures for sectors, not covered by the EU ETS:
 - Transport
 - Agriculture
 - Waste
 - Industry
 - Other sectors

II. Climate Change Adaptation Measures



1. Measures of inter-sectoral targets and objectives related to climate change adaptation integration into sectoral plans, monitoring and alarm system about extreme events, information, etc.

2. Sectoral measures for:

- Agriculture, soil
- Forestry, ecosystems, biodiversity, landscape
- Water resources
- Energy, transport, industry
- Public health

III. Measures to Implement General Climate Change Mitigation and Adaptation Targets and Objectives



Are related to:

- The use of the EU funds and State budget, increase of RES use and energy efficiency
- GHG accounting and projections
- Scientific research and development
- Education and public information, integration of climate change issues into educational programs on different levels
- Cooperation with the EU and other countries while implementing climate change projects

IV. ASSESSMENT CRITERIA AND VALUES OF THE PLAN



- For climate change mitigation targets and objectives
- For climate change adaptation targets
- For general climate change mitigation and adaptation targets

Economic instruments and financial support mechanisms



Performance and Energy Efficiency Standards

Environmental Tax -> **Environmental Investment Program**

Emissions Trading -> **Special Program for Climate Change**

Tariffs Subsidies

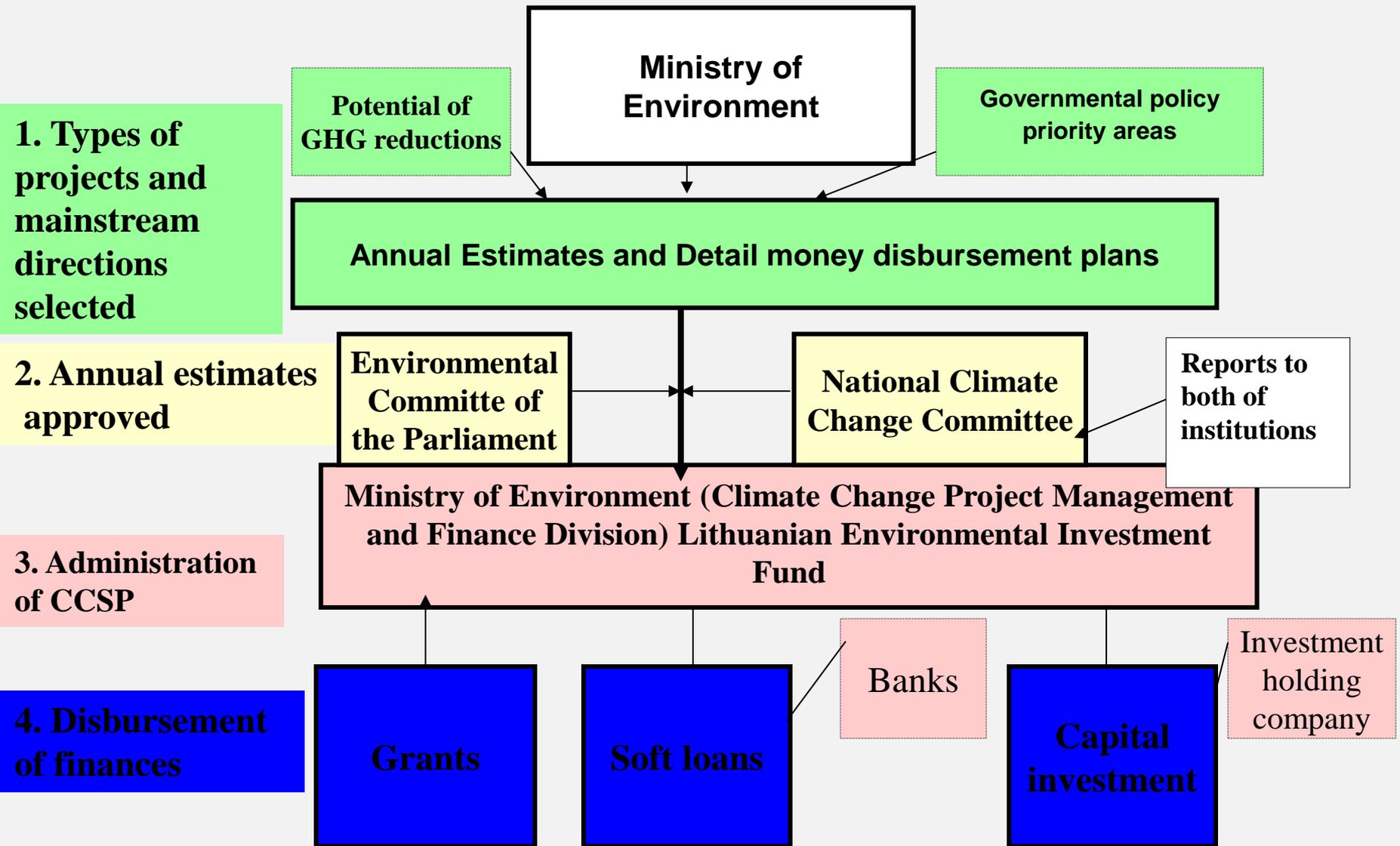
Tax Incentives

EU structural and investment funds 2014-2020
(22.4% climate related projects)

Combination of economic instruments



Special Programme for Climate Change



Project financing areas



LIST OF PROJECTS UNDER THE ANNUAL ESTIMATE OF SPECIAL PROGRAM FOR CLIMATE CHANGE IN 2014

Improvement of energy use and production efficiency (54.7%)

- Renovation (modernisation) of public buildings and multi-apartment residential buildings which achieve energy efficiency class D and reduce energy costs by 40%
- Renovation (modernisation) of individual residential buildings enabling to reach building energy efficiency class C and reduce energy costs by at least 20%

Use of renewable energy resources and introduction of environmentally-friendly technologies (40%)

- Use of renewable energy sources (sun, wind, geothermal energy, biomass, etc) in public buildings and in enterprises of economic and commercial activities
- Use of renewable energy sources (sun, wind, biofuel, geothermal energy, biomass, etc.) in individual residential buildings
- Modernization of the biomass production from forest waste providing compensation for the purchasing of equipments
- Development environmental public transportation infrastructure and promotion of eco-inovative technologies

In 2011-2013 more than 300 mln. Lt (87 mln euros) were allocated for energy efficiency and renewable energy projects

Other measures

Implementation of other measures which does not result in quantitative reduction of GHG emissions (5.3%)

- Measures of the **Action Plan** for the implementation of the Strategy for National Climate Change Management Policy
- Projects **on public information**, education and scientific research and dissemination of their results in the area of climate change management
- Measures of adaptation and mitigation implemented within the territory of Lithuania and in the developing countries
- Lithuania's contribution to **international climate finance**
- Costs of administration of projects financed using Special Programme for Climate Change funds, preparation and evaluation of reports, etc. (**Auditing, verification, monitoring**)



Governance and involvement of stakeholders

- The Strategy for the National Climate Change Management Policy, adopted by the Parliament
- Action Plan on the Implementation of the Goals and Objectives for 2013-2020 of the Strategy for the National Climate Change Management Policy, adopted by the Government
- Ministry of Environment – main coordinating institution on climate policy development and implementation
- Ministries of Energy, Economy, Communication, Agriculture – responsible for the sectorial policy development and implementation
- National Climate Change Committee
- Cities initiatives – 15 Municipalities signed Covenant of Mayors
- Business initiatives
- Environmental Award
- Flexible mechanisms (25 JI projects in the 2008-2012 period)

Implementation of climate related targets in 2012



- Reduction of greenhouse gas emissions more than 50% to compare with 1990 level.
- Energy consumption reduced almost 5% to compare with 2009 level.
- Use of renewable energy sources amounts to nearly 21,7% of the total energy consumption.

Thank you!

Stasilė Znutienė

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