

Table S1. Carbon farming policies.

Policy	Year	Type	Instrument	Source
European Union				
Sustainable Carbon Cycles	2021	Strategy	Governance	OECD
EU Soil Strategy for 2030	2021	Strategy	Governance	OECD
EU Farm to Fork Strategy	2020	Strategy	Economic, governance, information	CCLW
European Green Deal	2019	Strategy	Governance	OECD
Effort Sharing Regulation	2018	Law	Governance	CCLW
Land Use, Land Use Change and Forestry (LULUCF) Regulation	2013	Law	Regulation	CCLW
Common Agricultural Policy	2013	Law	Direct investment, economic, governance, regulation	CCLW
Austria				
Integrated National Energy and Climate Plan for Austria	2019	Plan	Economic, governance, information	CCLW
Long-Term Strategy 2050	2019	Strategy	Governance	UNFCCC
Austrian Climate and Energy Strategy #mission2030	2018	Strategy	Governance	NECP
Austrian programme for environmentally friendly agriculture (ÖPUL)	2015	Programme	Economic	NECP
Belgium				
Long-Term Strategy 2050	2020	Strategy	Governance	UNFCCC
National Energy and Climate Plan for Belgium	2019	Plan	Economic, governance, information	CCLW
Bulgaria				
Integrated National Energy and Climate Plan for Bulgaria	2019	Plan	Economic, governance, information	CCLW
Agricultural Land Protection Act	2012	Law	Governance	CCLW
Agricultural Producers Support Act (ZPZP) 1998		Law	Economic, governance	NECP
Croatia				
Integrated National Energy and Climate Plan for the Republic of Croatia	2019	Plan	Economic, governance, information, regulation	CCLW

Cyprus

Cyprus' Integrated National Energy and Climate Plan	2020	Plan	Economic, governance, information	CCLW
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Czechia

National Energy and Climate Plan of the Czech Republic	2019	Plan	Economic, governance, information	CCLW
Climate Protection Policy	2017	Strategy	Governance	UNFCCC
Government Decree No 48/2017	2017	Decree	Economic, regulation	NECP
Government Decree 185/2015	2015	Decree	Economic, regulation	NECP

Denmark

Agreement on green conversion of Danish agriculture of 4 October 2021	2021	Agreement	Economic, governance, information	OECD
Climate Programme 2020	2020	Programme	Governance	UNFCCC
Denmark's Integrated National Energy and Climate Plan	2019	Plan	Economic, governance, information	CCLW
Environment protection Act	2007	Law	Regulation	CCLW

Estonia

Estonia's 2030 National Energy and Climate Plan	2019	Plan	Economic, governance, information, regulation	CCLW
National Environmental Strategy until 2030	2007	Strategy	Governance	CPR

Finland

Finland's long-term low greenhouse gas emission development strategy	2020	Strategy	Governance	UNFCCC
Finland's Integrated Energy and Climate Plan	2019	Plan	Economic, governance, information, regulation	CCLW
National Energy and Climate Strategy for 2030	2016	Strategy	Economic, governance	CCLW
Climate Programme for Finnish Agriculture	2014	Programme	Economic, governance, information	NECP

France

Climate Action Plan Ministry of Agriculture and Food	2021	Plan	Governance, information	OECD
France's Integrated Energy and Climate Plan	2020	Plan	Economic, governance, information, regulation	CCLW

France Relaunch Plan	2020	Plan	Direct investment, economic, governance, information	CCLW
Teaching to Produce Differently Plan	2020	Plan	Information	NECP
Organic Plan 2022	2018	Plan	Economic, governance, information	NECP
Major Investment Plan 2018-2022	2017	Plan	Direct investment, economic, information	NECP
Climate Plan	2017	Plan	Economic, governance	CCLW
Agroforestry Development Plan	2015	Plan	Governance	NECP
National Low-Carbon Strategy (SNBC)	2015	Strategy	Governance	CCLW
Anaerobic Digestion and Nitrogen Autonomy Plan	2013	Plan	Governance	NECP
Agri-Environmental Project for France	2012	Programme	Economic, governance, information	NECP
Germany				
Integrated National Energy and Climate Plan	2019	Plan	Economic, governance, regulation	CPR
Future Strategy for Organic Farming	2017	Strategy	Governance	NECP
Climate Action Plan 2050	2016	Plan	Direct investment, economic, governance, information, regulation	CCLW
Federal program for organic farming and other forms of sustainable agriculture (BÖLN)	2002	Programme	Economic	NECP
Greece				
Greece's National Energy and Climate Plan	2019	Plan	Economic, governance, regulation	CCLW
Hungary				
National Clean Development Strategy 2020- 2050	2021	Strategy	Governance	UNFCCC
Hungary's National Energy and Climate Plan	2019	Plan	Economic, governance	CCLW
National Energy Strategy 2030	2012	Strategy	Governance	CCLW
National Climate Change Strategy	2008	Strategy	Governance	CPR

Ireland

Climate Action Plan	2021	Plan	Economic, governance	CPR
Ag Climatise	2020	Strategy	Governance, information	NECP
Ireland's National Energy and Climate Plan	2020	Plan	Economic, governance, regulation	CCLW
National Development Plan 2018-2027	2018	Plan	Governance	CCLW

Italy

Italy's Integrated National and Energy Climate Plan	2019	Plan	Governance, regulation	CCLW
Ministerial Decree of March 2, 2018, promoting the use of biomethane in the transport sector	2018	Decree	Governance	CCLW

Latvia

Latvia's National Energy and Climate Plan 2021-2030	2020	Plan	Governance, regulation	CCLW
Latvia's Strategy to achieve climate neutrality by 2050	2019	Strategy	Governance, information	CCLW

Lithuania

Lithuanian Climate Change Management Agenda 2021	2021	Strategy	Governance, information	UNFCCC
National Energy and Climate Plan of the Republic of Lithuania for 2021-2030	2019	Plan	Economic, governance, information	CCLW

Luxembourg

Long Term Climate Strategy 2050	2021	Strategy	Governance	UNFCCC
Luxembourg's integrated National Energy and Climate Plan for 2021-2030	2019	Plan	Economic, governance, information	CCLW

Malta

Malta Low Carbon Development Strategy	2021	Strategy	Governance, information	UNFCCC
Malta's 2030 National Energy and Climate Plan	2019	Plan	Economic, governance, information	CCLW
National Strategy for Policy and Abatement Measures Relating to the Reduction of Greenhouse Gas Emissions	2009	Strategy	Governance	CCLW

The Netherlands

Integrated National Energy and Climate Plan 2021-2030	2019	Plan	Economic, governance, regulation	CCLW
Long term strategy on climate mitigation	2019	Strategy	Governance	CCLW
National Climate Agreement	2019	Agreement	Economic, governance, information	CCLW
National regulation on subsidies	2014	Decree	Economic, governance	CCLW
Climate Agenda: resilient, prosperous and green	2013	Strategy	Governance	CPR

Poland

Poland's National Energy and Climate Plan for 2021-2030	2019	Plan	Governance, information	CCLW
Act on Renewable Energy Sources	2015	Law	Direct investment, governance	CCLW
Regulation of the Council of Ministers on types of programmes and projects to be implemented under the National Green Investment Scheme (GIS)	2009	Law	Governance, information	CCLW
Act on the System to Manage the Emissions of Greenhouse Gases and Other Substances	2009	Law	Governance, information	CPR

Portugal

Portugal's National Energy and Climate Plan for 2021-2030	2019	Plan	Economic, governance, information	CCLW
Resolution no 107/2019 of the Council of Ministers approving the Long-Term Strategy for Carbon Neutrality of the Portuguese Economy in 2050	2019	Strategy	Economic, governance, information	CCLW

Romania

Romania's 2021-2030 Integrated National Energy and Climate Plan	2020	Plan	Economic, governance, information	CCLW
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Slovakia

Low-Carbon Development Strategy of the Slovak Republic until 2030 with a View to 2050	2020	Strategy	Governance	UNFCCC
Slovakia's Integrated National Energy and Climate Plan for 2021 to 2030	2019	Plan	Economic, governance, information	CCLW
Slovak Government Regulation No 342/2014, laying down rules for granting	2014	Law	Economic, regulation	NECP

support in agriculture in the context of
decoupled direct payment schemes

Establishment of sustainability criteria and targets to reduce greenhouse gas emissions from fuels, Decree of Ministry of Environment No. 271/2011 Coll.	2011	Decree	Regulation	CCLW
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Slovenia

Resolution 'Our food, rural areas and natural resources after 2021'	2021	Strategy	Governance	NECP
Slovenia's Long-Term Climate Strategy until 2050	2021	Strategy	Governance	UNFCCC
Slovenia's integrated National Energy and Climate Plan	2020	Plan	Economic, governance, information	CCLW

Spain

Long Term Decarbonisation Strategy 2050	2020	Strategy	Governance	UNFCCC
Spain's integrated National Energy and Climate Plan for 2021-2030	2020	Plan	Economic, governance, information	CCLW
National program for the promotion of crop rotations in dry land	2010	Programme	Economic, governance	NECP
Spanish Forest Plan	2002	Plan	Governance	CCLW

Sweden

Sweden's Integrated National Energy and Climate Plan	2020	Strategy	Economic, governance, information	CCLW
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Typology of instruments

The list below offers an overview of the instrument types used for the desk research. This typology was drawn from the methodology of the CCLW database [1], which is itself based on Hood and Margetts' NATO typology [2].

Direct Investment:

- Provision of climate funds;
- Nature-based solutions and ecosystem restoration;
- Provision of climate finance;
- Green procurement;
- Early warning systems;
- Other.

Economic:

- Subsidies;
- Tax incentives;
- Carbon pricing and emissions trading;
- Insurance;
- Climate finance tools;
- Other.

Governance:

- Capacity building;
- Institutional mandates;
- Planning;
- Processes, plans, and strategies;
- MRV;
- Subnational and citizen participation;
- International cooperation;
- Other.

Information:

- Education, training, and knowledge dissemination;
- Research and Development, and knowledge generation.

Regulation:

- Standards, obligations, and norms;
- Disclosure obligations;
- Moratoria and bans;
- Zoning and spatial planning;
- Other.

1. Grantham Research Institute on Climate Change and the Environment; Sabin Center for Climate Change Law. Climate Change Laws of the World Database. Available online: <https://climate-laws.org> (accessed on 5 August 2022).
2. Hood, C.; Margetts, H. *The Tools of Government in the Digital Age*; Bloomsbury Publishing Plc: London, UK, 2007; ISBN 978-1-137-06154-6.