1. EU ETS Implementation

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	To ensure proper implementation of European Union Emmissions Trading Scheme (EU ETS) by adapting it to the new Community rules in order to promote GHG reduction under cost-effective and economically efficient conditions.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Nitrous oxide (N2O)
Sector(s) affected	- Energy Supply - Energy Consumption - Industrial Processes
Objective(s)	 Switch to less carbon-intensive fuels Efficiency improvement in industrial end-use sectors Other industrial processes
Other Objective(s)	 Industrial Processes: Promotion of low-carbon fuels Industrial Processes: Replacement of fossil fuels Industrial Processes: Promotion of low carbon technologies.
Quantified Objective	Na
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the industry sector.
Type of policy Instrument	- Economic - Regulatory
Union policy which resulted in the implementation of the PaM	Related: - EU ETS directive 2003/87/EC as amended by Directive 2008/101/EC, Directive 2009/29/EC and Directive 2018/410 and implementing legislation, in particular 2010/2/EU, 2011/278/EU, 2011/638/EU, 176/2014/EU, and Decision (EU) 2015/1814 Other Union Policy:

Does the PaM relate to A Pollution policy?	ir	Yes				
Status of Implementation	ı					
Status of implementation	Start	Finish	Con	nment on Imple	mentation Peri	od
Implemented	2005					
Projections scenario in v the PaM is included	vhich	With existing measures				
Entities responsible for implementing the policy		- Ministry of Environment an	d Climate Action	(National gove	ernment)	
Indicators used to monit	or and evalua	ate progress over time (ex-pos	t or ex-ante)			
Reference to assessmen underpinning technical r						
General Comments		Decree-Law n.º 38/2013, of January, repealed by Decre 27th July , amended by Dec	e-Law n.º 12/202	20 of 6th April;	Decree-Law n	
Table 2: Available r	esults of e	ex-ante and ex-post asse	essments of	the effects	s of individ	Jual or
groups of policies an	d measure	s on mitigation of climate	change			
Policy impacting EU ETS LULUCF and/or ESD/ESF emissions		- EU ETS				
Ex-ante assessment						
			EU ETS	ESR	LULUCF	Total
GHG emissions reductions	for year 2025	(kt CO2-equivalent per year)				
GHG emissions reductions	for year 2030	(kt CO2-equivalent per year)				
GHG emissions reductions	for year 2035	(kt CO2-equivalent per year)				
GHG emissions reductions	for year 2040	(kt CO2-equivalent per year)				
Explanation of the basis for mitigation estimates	the					
Factors affected by the PaN	Λ					
Reference						
Ex-post assessment						
GHG emissions reductions	kt CO2-equiva	alent per year)				
Year for which reduction ap	plies		EU ETS	ESD/ESR	LULUCF	Total

Explanation of the basis for the mitigation estimates

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates NA (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated

Cost	
Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates	
(basis for cost estimate, what type of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	

2. Green tax implementation

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	To induce sustainable production and consumption patterns, fostering more sustainable behavior, promoting eco-innovation and resource efficiency, fostering entrepreneurship and job creation, reducing energy dependence from abroad, the efficient achievement of targets and international objectives and diversification of revenue sources. Positive discrimination on motor vehicles taxes through a CO2 Component on Motor Vehicles Taxes (2009). Tax Incentives for Efficiency and Low Carbon transport Options, Renewables in urban buildings and other low-carbon products and services, with certification or incorporation of recycled material.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	 Energy Supply Energy Consumption Industrial Processes Waste management/waste Transport
Objective(s)	 Switch to less carbon-intensive fuels Efficiency improvements of buildings Efficiency improvement in services/ tertiary sector Other industrial processes Demand management/reduction Enhanced recycling Enhanced CH4 collection and use Low carbon fuels/electric cars Electric road transport
Other Objective(s)	- Industrial Processes: Promotion of low-carbon fuels - Industrial Processes: Replacement of fossil fuels
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the energy production, industry, transport and waste sectors.
Type of policy Instrument	- Fiscal

ted in e PaM	Non related	
Does the PaM relate to Air Pollution policy?		
1		
Start	Finish	Comment on Implementation Period
2009		
/hich	With existing measures	
Entities responsible for implementing the policy		al government) Climate Action (National government)
	e PaM ir Start 2009	ir No Start Finish 2009 Which With existing measures - Ministry of Finance (National

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Law n.º 22-A/2007 of 29th of June, amended by Law n.º 119/2019 of 18th September; Law n.º 82-D/2014 of 31st of December, amended by Law n.º 119/2019 of 18th September.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, EU ETS				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 202	25 (kt CO2-equivalent per year)				
GHG emissions reductions for year 203	30 (kt CO2-equivalent per year)				
GHG emissions reductions for year 203	35 (kt CO2-equivalent per year)				
GHG emissions reductions for year 204	40 (kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					

Ex-post assessment

GHG emissions reductions(kt CO2-equivalent per year)

Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs and	benefits of indi	vidual or g	roups of p	olicies
and measures on mitigation of climate change				
Projected costs and benefits Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross cost	ts per year in E	UR	
Benefit				
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit pe	r year in EUR		
Net Cost				
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost p	er year in EUR		
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)				
Description of non-GHG mitigation benefits				

Absolute gross costs per year in EUR	
Absolute benefit per year in EUR	
Absolute net cost per year in EUR	
	Absolute benefit per year in EUR

3. To promote the transition to a circular economy.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	With a view to decarbonising the economy, it is intended to increase the levels of material use circularity, to lead to a substantial adaptation of (new) business models that replace the provisioning of goods with the provision of services and property by use, and the proximity between production and consumption and reduce consumption by turning waste into (new) resources. Pursue the vision and actions of circular economy that contribute to the reduction of GHG emissions provided for in the Circular Economy Action Plan, by promoting material recirculation, material efficiency of products and streamlining circular business models. Strengthening the outlook for the circular economy in industry, it is possible to develop innovation, develop low-carbon products designed for multiple life cycles, new business models and reduce energy and materials consumption, contributing to the fight against climate change.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Industrial Processes - Waste management/waste - Transport
Objective(s)	 Other industrial processes Enhanced recycling Reduced landfilling Modal shift to public transport or non-motorized transport Other transport
Other Objective(s)	 Industrial Processes: Industrial symbioses Industrial Processes: Reuse of resources Transport: Shared mobility and autonomous vehicles
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the industry, transport and waste sectors. Intends changing the paradigm of resource use, in production and consumption, leaving the linear economic model behind and moving towards a circular and low carbon economic model.
Type of policy Instrument	- Economic - Information - Regulatory - Voluntary/negotiated agreements

Union	policy	which	res	sulte	ed in
the im	plemer	ntation	of	the	PaM

Related:

- Waste Management Framework Directive 2008/98/EC, amended by Directive 2018/851

Other Union Policy:

Does the PaM relate to A Pollution policy?	Air					
Status of Implementatio	'n					
Status of implementation	Start	Finish	Cor	nment on Imp	elementation Peri	od
Implemented	2014					
Projections scenario in the PaM is included	which	With existing measures				
Entities responsible for implementing the policy		- Ministry of Environment and	d Climate Actior	n (National go	overnment)	
Indicators used to moni	tor and evalu	ate progress over time (ex-post	or ex-ante)			
Reference to assessme underpinning technical						
General Comments		Council of Ministers Resoluti Plan.	on n. º 190-A/20	017, aproves	the Circular Eco	nomy Action
	nd measure s,	ex-ante and ex-post asse es on mitigation of climate - ESD/ESR, EU ETS		the effe	cts of indivic	dual or
emissions						
Ex-ante assessment						
			EU ETS	ESR	LULUCF	Total
GHG emissions reductions	s for year 2025	(kt CO2-equivalent per year)				
GHG emissions reductions	s for year 2030	(kt CO2-equivalent per year)				
GHG emissions reductions	s for year 2035	(kt CO2-equivalent per year)				
GHG emissions reductions	s for year 2040	(kt CO2-equivalent per year)				
Explanation of the basis for mitigation estimates	r the					
Factors affected by the Pa	M					

Ex-post assessment				
GHG emissions reductions(kt CO2-equivalent per year)				
Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs	and benefits of ind	ividual or g	roups of p	olicies
and measures on mitigation of climate change				
Projected costs and benefits				
Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross cos	ts per year in E	UR	
Benefit				
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit pe	r year in EUR		
Net Cost				
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost p	er year in EUR		
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)				
Description of non-GHG mitigation benefits				

Absolute gross costs per year in EUR	
Absolute benefit per year in EUR	
Absolute net cost per year in EUR	
	Absolute benefit per year in EUR

4. To promote Research and Development **P**????? projects that support the transition to a carbon neutral economy, based on an innovative and competitive industry, sustainable agroforestry management and mobility and minimizing waste production.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	It is intended to support the development of energy-efficient, low-carbon technologies, solutions, products and services using renewable energy sources, as well as to support the participation of companies and national bodies in research and innovation programs contributing to decarbonisation of economy and promotion of energy efficiency in all sectors. This will be done encouraging Research, Development and Innovation (R&D&I) in the field of energy efficiency, renewable energy, storage, hydrogen, advanced biofuels, and other 100% renewable fuels.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	 Energy Supply Energy Consumption Transport Industrial Processes Waste management/waste Agriculture Land use, land use change and forestry
Objective(s)	 Increase in renewable energy Other energy supply Efficiency improvements of buildings Low carbon fuels/electric cars Other transport Other industrial processes Reduced landfilling Other activities improving cropland management Improved livestock management Improved management of organic soils Enhanced forest management Prevention of deforestation
Other Objective(s)	 Energy Supply: Other Storage Transport: Low carbon technologies Industrial Processes: Low carbon technologies
Quantified Objective	NA

PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with impact in all sectors. It is important to promote the development of new technologies and solutions better aligned with the decarbonisation objective.

Type of policy Instrumer	nt	- Economic - Education - Information - Research - Voluntary/negotiated agreemen	ıts
Union policy which result the implementation of the second		Non related	
Does the PaM relate to A Pollution policy?	lir	No	
Status of Implementation	n		
Status of implementation	Start	Finish	Comment on Implementation Period
Adopted	2019		
Projections scenario in v the PaM is included	which	With existing measures	
Entities responsible for implementing the policy- Ministry of Environment and Climate Action (National government) - Ministry of Science, Technology and Higher Education (National government)			

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Research and Innovation Strategy for Smart Specialization EI&I, 2014-2020, approved in December 23th of 2014; Research and Innovation Thematic Agendas 2030, under development by FCT following the Council of Ministers Resolution n. ^o 32/2016, of June 3th.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, EU ETS					
Ex-ante assessment						
		EU ETS	ESR	LULUCF	Total	
GHG emissions reductions for year 2025 (kt CO2-equivalent per year)						
GHG emissions reductions for year 2030 (kt CO2-equivalent per year)						
GHG emissions reductions for year 2035 (kt CO2-equivalent per year)						

Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Ex-post assessment				
GHG emissions reductions(kt CO2-equivalent per year)				
Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs and	l benefits of indi	vidual or g	roups of p	olicies
and measures on mitigation of climate change				
Projected costs and benefits				
Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross cost	s per year in E	UR	
Benefit				
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per	year in EUR		
Net Cost				
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost pe	er year in EUR		

Description of non-GHG mitigation benefits

Reference

Realised costs and benefits

Year(s) for which cost has been calculated

Price reference year

Cost

 Gross costs in EUR per tonne CO2eq reduced/sequestered
 Absolute gross costs per year in EUR

 Benefit
 Benefits in EUR per tonne CO2eq reduced/sequestered

 Net Cost
 Absolute benefit per year in EUR

 Net costs in EUR per tonne CO2eq reduced/sequestered
 Absolute net cost per year in EUR

 Description of cost estimates (basis for cost estimates, what type of costs are included in the estimate, methodology)
 Description of non-GHG mitigation benefits

Reference

5. Reduction of waste production and of landfill disposal and promotion of recycling.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single				
Which policies or measu does it cover?	res					
Short description		improve the quality of recyc Consolidate and optimize the	Prevent waste production and hazardousness, increase preparation for reuse, recycling, improve the quality of recyclables and reduce landfilling. Consolidate and optimize the waste management network and promote power generation at waste management facilities.			
Geographical coverage		National				
Greenhouse gas(es) affe	cted	- Methane (CH4) - Nitrous oxide (N2O)				
Sector(s) affected		- Waste management/wast	3			
Objective(s)		- Demand management/rec - Enhanced recycling - Improved treatment techn - Improved landfill manager - Reduced landfilling	blogies			
Other Objective(s)						
Quantified Objective		NA				
Assessment of the contribution of the policy measure to the achieven the long-term strategy re to in Article 15 Regulatio 2018/1999	nent of ferred	emission reduction target w the reduction of GHG emiss	rm strategy; contribute to the overall achievement of the GEE ith special focus on the waste sector. It contributes directly to sions as well as to the increase of the recycling rate of biofuels from municipal waste.			
Type of policy Instrumen	it	- Regulatory				
Union policy which resul the implementation of th		Related: - Waste Management Fran Other Union Policy:	nework Directive 2008/98/EC, amended by Directive 2018/851			
Does the PaM relate to A Pollution policy?	ir	Yes				
Status of Implementation	1					
Status of implementation	Start	Finish	Comment on Implementation Period			
Implemented	2014					

Projections scenario in which the PaM is included	With existing measures
Entities responsible for implementing the policy	- Ministry of Environment and Climate Action (National government)

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Strategic Plan for Urban Waste (PERSU 2020+), approved through the Ordinance n. ⁹ 241-B/2019 of 31stJuly; National Strategy to Combat Food Waste (ENCDA), approved through the Council of Ministers Resolution n. ⁹ 46/2018, of 27th April; National Waste Management Plan 2014-2020 (PNGR), approved through the Council of Ministers Resolution n. ⁹ 11-C/2015, of 16th March; Strategic Plan for Water Supply and Wastewater Sanitation (PENSAAR 2020), approved through the Official Order n. ⁹ 4385/2015, of 30th April; Legal regime for the production and use of water for reuse, obtained from wastewater treatment, approved through the Decree-Law n. ⁹ 119/2019, of 21st August.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

Policy impacting EU ETS, - ES LULUCF and/or ESD/ESR emissions	SD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt CO2-e	equivalent per year)				
GHG emissions reductions for year 2030 (kt CO2-e	equivalent per year)				
GHG emissions reductions for year 2035 (kt CO2-e	equivalent per year)				
GHG emissions reductions for year 2040 (kt CO2-e	equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivalent per y	vear)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits	
Year(s) for which cost has been calculated	
Price reference year	
Cost	
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	
Realised costs and benefits	
Year(s) for which cost has been calculated	

Price reference year

Cost

Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR		
Benefit			
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR		
Net Cost			
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR		
Description of cost estimates (basis for cost estimate, what type			
of costs are included in the estimate, methodology)			
Description of non-GHG mitigation benefits			
Reference			

6. To promote the production and use of renewable energy sources in the agricultural and forestry sectors; To adopt agriculture and forestry hydric and energy efficiency measures.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and type of policy instrument

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	Increase the production and use of renewable energy sources in the agriculture and forestry sectors. Consider energy use solutions that help to manage the rural spaces, removing the existing fuel load in them, through a solution or set of solutions that justify and monetize these interventions, creating a true business model, locally deployed and managed, associated with the creation of a national biomass market or at least self-sustaining regional markets. Promote more resource-efficient and regenerative agricultural and forestry practices that have an impact on reducing GHG emissions and improving energy and water efficiency.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Agriculture - Land use, land use change and forestry
Objective(s)	- Other agriculture - Prevention of drainage or rewetting of wetlands - Other LULUCF
Other Objective(s)	 Agriculture: Increase the production and use of renewable energy sources Agriculture: Increase Energy and Hydric Efficiency Land use, land use change and forestry: Increase the production and use of renewable energy sources
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the agriculture and forest sectors. Its aim is to promote energy transition by increasing significantly energy efficiency in agricultural and forestry sectors, focusing on the incorporation of indogenous renewable energy sources . This measure contributes directly to increasing energy efficiency and to increasing the use of energy from renewable sources.
Type of policy Instrument	- Regulatory

Union policy which resu the implementation of the		Non related	
Does the PaM relate to A Pollution policy?	Air		
Status of Implementatio	n		
Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2014		
Projections scenario in the PaM is included	which	With existing measures	
Entities responsible for implementing the policy		- Ministry of Environment and	Climate Action (National government)
Indicators used to moni	tor and evalu	ate progress over time (ex-post	or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Rural Development Program 2014-2020 (RDP 2020), approved through the Commission Implementing Decision C (2014) 9896, of 12th December.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, LULUCF				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 20	25 (kt CO2-equivalent per year)				
GHG emissions reductions for year 20	030 (kt CO2-equivalent per year)				
GHG emissions reductions for year 20	035 (kt CO2-equivalent per year)				
GHG emissions reductions for year 20	040 (kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					

Ex-post assessment

GHG emissions reductions(kt CO2-equivalent per year)

Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs and	benefits of indi	vidual or g	roups of p	olicies
and measures on mitigation of climate change				
Projected costs and benefits Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross cost	ts per year in E	UR	
Benefit				
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit pe	r year in EUR		
Net Cost				
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost p	er year in EUR		
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)				
Description of non-GHG mitigation benefits				

Absolute gross costs per year in EUR	
Absolute benefit per year in EUR	
Absolute net cost per year in EUR	
	Absolute benefit per year in EUR

7. Promoting biological, conservation and precision farming.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single				
Which policies or measu does it cover?	ires					
Short description		Promote the adoption of nutrient loss minimization fertilization techniques by expanding precision and organic farming and promoting increased in organic matter content in the soils.				
Geographical coverage		National				
Greenhouse gas(es) affe	ected	- Carbon dioxide (CO2) - Nitrous oxide (N2O)				
Sector(s) affected		- Agriculture				
Objective(s)		- Reduction of fertilizer/manu - Improved management of o				
Other Objective(s)						
Quantified Objective		NA				
measure to the achieven the long-term strategy re	contribution of the policy oremission reduction target with special focus on the agriculture sector.measure to the achievement ofemission reduction target with special focus on the agriculture sector.the long-term strategy referredto in Article 15 Regulation (EU)					
Type of policy Instrumer	nt	- Regulatory				
Union policy which result the implementation of th	lted in le PaM	in Related: aM - Common Agricultural Policy, and its delegated and implementing acts Other Union Policy:				
Does the PaM relate to A Pollution policy?	\ir	Yes				
Status of Implementation	n					
Status of implementation	Start	Finish	Comment on Implementation Period			
Implemented	2014					

Projections scenario in which the PaM is included	With existing measures
Entities responsible for implementing the policy	- Ministry of Environment and Climate Action (National government)

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Council of Ministers Resolution n. ^e 110/2017, of 27th July, approves the National Strategy for Organic Farming; Code of Good Agricultural Practice (CBPA), approved through the Official Order n. ^e 1230/2018, of 5th February.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt Co	D2-equivalent per year)				
GHG emissions reductions for year 2030 (kt Co	D2-equivalent per year)				
GHG emissions reductions for year 2035 (kt Co	D2-equivalent per year)				
GHG emissions reductions for year 2040 (kt Co	D2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivalent	per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR	
Benefit		
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR	
Net Cost		
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR	
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)		
Description of non-GHG mitigation benefits		
Reference		
Realised costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in FUR per tonne CO2ea reduced/sequestered	Absolute gross costs per year in ELIB	

Gross costs in EUR per tonne CO2eq reduced/sequestered

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

Reference

8. Improving natural sink potential of agriculture and forest.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single			
Which policies or measu does it cover?	ires				
Short description		enhance soil sequestration. grassland, the maintenance structure improvement opera	Increase the carbon sink capacity of agriculture and forestry, reduce emissions and/or enhance soil sequestration. Support the establishment of permanent biodiversified grassland, the maintenance of permanent crops, as well as other soil fertility and soil structure improvement operations and the use of crops/species suited to soil characteristics and improve landscape resilience to rural fires and reduce their incidence		
Geographical coverage		National			
Greenhouse gas(es) affe	ected	- Carbon dioxide (CO2)	- Carbon dioxide (CO2)		
Sector(s) affected		- Land use, land use change	and forestry		
Objective(s)		 Enhanced forest managem Prevention of deforestation 	 Conservation of carbon in existing forests Enhanced forest management Prevention of deforestation Strengthening protection against natural disturbances 		
Other Objective(s)					
Quantified Objective		ΝΑ			
Assessment of the contribution of the policy measure to the achieven the long-term strategy re to in Article 15 Regulatio 2018/1999	nent of eferred		m strategy; contribute to the overall achievement of the GEE in special focus on the agriculture and forest sectors. It sing removals by sinks.		
Type of policy Instrumer	nt	- Planning - Regulatory			
Union policy which result the implementation of th		Related: - LULUCF Decision No 529 Other Union Policy:	/2013/EU		
Does the PaM relate to A Pollution policy?	\ir	Yes			
Status of Implementation	n				
Status of implementation	Start	Finish	Comment on Implementation Period		
Implemented	2014				

Projections scenario in which the PaM is included	With existing measures		
Entities responsible for implementing the policy	- Ministry of Environment and Climate Action (National government)		
Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)			

Reference to assessments and underpinning technical reports	
General Comments	National Forest Strategy (NFE), update approved through the Council of Ministers Resolution n. $^{\circ}$ 6-B/2015, of 4th February.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, LULUCF				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (k	t CO2-equivalent per year)				
GHG emissions reductions for year 2030 (k	t CO2-equivalent per year)				
GHG emissions reductions for year 2035 (k	t CO2-equivalent per year)				
GHG emissions reductions for year 2040 (k	t CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivale	ent per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

Reference

9. Promoting decarbonisation of livestock activity.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single			
Which policies or measu does it cover?	res				
Short description		animals produced in intensi	Reduce the carbon intensity of livestock activity through better digestibility of the diet of animals produced in intensive and extensive systems and the treatment systems management of livestock effluents.		
Geographical coverage		National	National		
Greenhouse gas(es) affe	cted	- Methane (CH4) - Nitrous oxide (N2O)			
Sector(s) affected		- Agriculture			
Objective(s)		 Improved livestock manag Improved animal waste ma 	ement anagement systems		
Other Objective(s)					
Quantified Objective		NA			
Assessment of the contribution of the policy measure to the achieven the long-term strategy re to in Article 15 Regulatio 2018/1999	nent of ferred	PAM included in the long-te emission reduction target w	rm strategy; contribute to the overall achievement of the GEE ith special focus on the agriculture sector.		
Type of policy Instrumer	it	- Regulatory			
Union policy which resul the implementation of th	ted in e PaM	Related: - Common Agricultural Polic Other Union Policy:	cy, and its delegated and implementing acts		
Does the PaM relate to A Pollution policy?	ir	Yes			
Status of Implementation	1				
Status of implementation	Start	Finish	Comment on Implementation Period		
Implemented	2014				

Projections scenario in which the PaM is included	With existing measures				
Entities responsible for implementing the policy	- Ministry of Environment ar	d Climate Actior	n (National go	overnment)	
Indicators used to monitor and evalu	ate progress over time (ex-pos	t or ex-ante)			
Reference to assessments and underpinning technical reports					
General Comments	National Strategy for Agricu	Itural and Agro-I	ndustrial Effl	uents (ENEAPAI)	2018-2025
Table 2: Available results of groups of policies and measure	·		the effe	cts of individ	dual or
Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025	(kt CO2-equivalent per year)				
GHG emissions reductions for year 2030	(kt CO2-equivalent per year)				
GHG emissions reductions for year 2035	(kt CO2-equivalent per year)				
GHG emissions reductions for year 2040	(kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					

EU ETS

ESD/ESR

LULUCF

Total

Ex-post assessment

GHG emissions reductions(kt CO2-equivalent per year)

Year for which reduction applies

Explanation of the basis for the mitigation estimates

Factors affected by the PaM

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

Reference

10. Conserving, restoring and improving agricultural and forest soils and preventing their erosion.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single		
Which policies or measures does it cover?			
Short description	Ensure agro-forestry efficient by promoting agricultural and forestry practices more efficient and regenerative in remote resources, and lead to an effective reduction of GHG emissions and improve energy and water efficiency. Promote forest resilience to increase forest productivitythrough the establishment of incentives for energy efficiency measures in the sector, including irrigation, associated with improvements in water efficiency, aimed at reducing the energy intensity of the sector by 2030. Promotion of decarbonization of the value chains of the biobased economy by increasing the use of byproducts/residual materials of agricultural and forestry origin, with new circular business areas that contribute to the reduction of GHG emissions.		
Geographical coverage	National		
Greenhouse gas(es) affected	- Carbon dioxide (CO2)		
Sector(s) affected	- Agriculture - Land use, land use change and forestry		
Objective(s)	 Other activities improving cropland management Improved management of organic soils Afforestation and reforestation Enhancing production in existing forests Enhanced forest management Prevention of deforestation Strengthening protection against natural disturbances 		
Other Objective(s)			
Quantified Objective	NA		
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GE emission reduction target with special focus on the agriculture and forest sectors.		
Type of policy Instrument	- Planning - Regulatory		
Union policy which resulted in the implementation of the PaM	Related: - Common Agricultural Policy, and its delegated and implementing acts Other Union Policy:		

Does the PaM relate to A Pollution policy?	Air	No		
Status of Implementation	n			
Status of implementation	Start	Finish	Comment on Implementation Period	
Implemented	2014			
Projections scenario in v the PaM is included	which	With existing measures		
Entities responsible for implementing the policy		 Ministry of Environment and Climate Action (National government) Ministry of Agriculture (National government) 		
Indicators used to monit	tor and evalu	ate progress over time (ex-post	or ex-ante)	
Reference to assessmer underpinning technical ı				
General Comments		Council of Ministers Resoluti Irrigation Program.	on n. ^o 133/2018, of 12th October, aproves the National	
Table 2: Available	results of	ex-ante and ex-post asse	essments of the effects of individual or	
groups of policies ar	nd measure	es on mitigation of climate	change	
Policy impacting ELLETS	Policy impacting ELLETS			

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, LULUCF				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (k	t CO2-equivalent per year)				
GHG emissions reductions for year 2030 (k	t CO2-equivalent per year)				
GHG emissions reductions for year 2035 (k	t CO2-equivalent per year)				
GHG emissions reductions for year 2040 (k	t CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivale	ent per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total

Explanation of the basis for the mitigation estimates

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits

Year(s) for which cost has been calculated

Price reference year

Cost

Gross costs in EUR per tonne CO2eg reduced/ seguestered	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/ sequestered

Net Cost

Net costs in EUR per tonne CO2eq reduced/ sequestered

Absolute net cost per year in EUR

Absolute benefit per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)
Description of non-GHG mitigation benefits
Reference
Realised costs and benefits

Year(s) for which cost has been calculated

Cost	
Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type	
of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	

11. Reducing the use of nitrogen fertilisers.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single		
Which policies or measu does it cover?	ires			
Short description		Reduced use of synthetic fertilizers and their replacement with organic compost, based on the Good Agricultural Practices and the EU Fertilizer Regulation (which will replace t current EC Fertilizers Regulation 2003/2003), greater efficiency in the use of fertilizers and the replacement of the synthetic fertilizers for organic compost.		
Geographical coverage		National		
Greenhouse gas(es) affe	ected	- Nitrous oxide (N2O)		
Sector(s) affected		- Agriculture		
Objective(s)		- Reduction of fertilizer/manu	re use on cropland	
Other Objective(s)				
Quantified Objective		NA		
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999			n strategy; contribute to the overall achievement of the GEE n special focus on the agriculture sector.	
Type of policy Instrume	nt	- Regulatory		
Union policy which resulted in the implementation of the PaM Related: - Other (Union policy not listed above or additional Union policy) Other Union Policy: - Regulation (EC) n.º 2003/2003 of the European Parliament and of the October 2003, relating to fertilisers.		003 of the European Parliament and of the Council of 13		
Does the PaM relate to A Pollution policy?	Air	Yes		
Status of Implementatio	n			
Status of implementation	Start	Finish	Comment on Implementation Period	
Implemented	2005			

Projections scenario in which the PaM is included	With existing measures				
Entities responsible for implementing the policy	- Ministry of Agriculture (Na	ational government	;)		
Indicators used to monitor and evaluate p	rogress over time (ex-po	st or ex-ante)			
Reference to assessments and underpinning technical reports					
General Comments					
Table 2: Available results of ex-a groups of policies and measures or	-		the effects	s of indivic	lual or
Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR	onango			
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt Co					
GHG emissions reductions for year 2030 (kt Co					
GHG emissions reductions for year 2035 (kt Co					
GHG emissions reductions for year 2040 (kt Co	D2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivalent	per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

12. Promoting efficiency and expansion of public transport systems.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single	
Which policies or measures does it cover?		
Short description	Making public transport more attractive and favoring intermodality will make it possible to reduce urban congestion and achieve more efficient and cleaner mobility, providing greater comfort, speed and quality of life with lower energy consumption. It is intended to provide citizens with a public transport service quality, more convenient, faster and easy to access, helping to foster social cohesion and maximizing the accessibility of all citizens. The aim is to promote modal transfers by improving supply and access to public transport, reducing the reliance on individual transport for day-to-day travel. In 2019, an important Public Transport Tariff Reduction Support Program was started to lower the cost of public transport.	
Geographical coverage	National	
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)	
Sector(s) affected	- Transport	
Objective(s)	- Modal shift to public transport or non-motorized transport	
Other Objective(s)		
Quantified Objective	NA	
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the transport sector. It contributes directly to reducing emissions by reducing the number of private vehicles in circulation and increasing energy efficiency in the transport sector.	
Type of policy Instrument	- Planning - Regulatory	
Union policy which resulted in the implementation of the PaM	Related: - Directive on the Promotion of Clean and Energy Efficient Road Transport Vehicles 2009/33/EC Other Union Policy:	

Does the PaM relate to A Pollution policy?	Air	Yes				
Status of Implementation	n					
Status of implementation	Start	Finish	Con	nment on Imple	mentation Peri	od
Implemented	2014					
Projections scenario in v the PaM is included	which	With existing measures				
Entities responsible for implementing the policy		- Ministry of Environment ar - Ministry of Infrastructure a				
Indicators used to monit	tor and evalu	uate progress over time (ex-pos	t or ex-ante)			
Reference to assessmer underpinning technical r						
General Comments						
	nd measur s,	ex-ante and ex-post ass es on mitigation of climate - ESD/ESR				
Ex-ante assessment						
			EU ETS	ESR	LULUCF	Total
GHG emissions reductions	for year 2025	5 (kt CO2-equivalent per year)				
GHG emissions reductions	for year 2030) (kt CO2-equivalent per year)				
GHG emissions reductions	for year 2035	5 (kt CO2-equivalent per year)				
GHG emissions reductions	for year 2040) (kt CO2-equivalent per year)				
Explanation of the basis for mitigation estimates	[,] the					
Factors affected by the Pal	M					
Reference						
Ex-post assessment						
GHG emissions reductions	(kt CO2-equiv	valent per year)				
Year for which reduction ap	oplies		EU ETS	ESD/ESR	LULUCF	Total

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits	
Year(s) for which cost has been calculated	
Price reference year	
Cost	
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	
Realised costs and benefits	
Year(s) for which cost has been calculated	

Price reference year

Cost

Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type	
of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	

13. Promote freight transport by rail and sea.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?		Single			
Which policies or measu does it cover?	res				
Short description		emissions in the transport se	contributors to the consumption of fossil fuels and GHG ctor, in particular by the high modal share of road transport. port means a significant increase in the energy and eight transport.		
Geographical coverage		National			
Greenhouse gas(es) affe	cted	- Carbon dioxide (CO2)			
Sector(s) affected		- Transport			
Objective(s)		- Other transport			
Other Objective(s)		- Transport: Increase the cor connections and create conc	- Transport: Increase the competitiveness of rail transport, improve international connections and create conditions for rail interoperability.		
Quantified Objective		NA			
Assessment of the contribution of the policy measure to the achieven the long-term strategy re to in Article 15 Regulatio 2018/1999	nent of ferred		m strategy; contribute to the overall achievement of the GEE h special focus on the transport sector.		
Type of policy Instrumer	t	- Planning - Regulatory			
Union policy which resulted in the implementation of the PaM		Related: - Energy Efficiency Directive Other Union Policy:	2012/27/EU as amended by Directive 2018/2002		
Does the PaM relate to A Pollution policy?	ir	Yes			
Status of Implementation	1				
Status of implementation	Start	Finish	Comment on Implementation Period		
Implemented	2014				

Projections scenario in which the PaM is included	With existing measures				
Entities responsible for implementing the policy	- Ministry of Infrastructure a	and Housing (Nation	onal governme	nt)	
Indicators used to monitor and evalua	te progress over time (ex-pos	st or ex-ante)			
Reference to assessments and underpinning technical reports					
General Comments					
Table 2: Available results of e	ex-ante and ex-post ass	essments of	the effects	s of individ	dual or
groups of policies and measure	s on mitigation of climate	change			
Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (
GHG emissions reductions for year 2030 (
GHG emissions reductions for year 2035 (
GHG emissions reductions for year 2040 ((kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equiva	llent per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

14. Promoting active and low-impact mobility and more efficient behaviors.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	 Promote more efficient behavior through the following actions: Promotion of the use of information technologies to induce more sustainable behavior (to users of the transport, support systems to the driver and information n in travel); Support for eco-driving monitoring technologies; Reduction of the need to travel through the adoption of videoconference or other forms of distance communication and telework; Dissemination of information on urban mobility options; Increase the modal share of bicycle and pedestrian.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Transport
Objective(s)	- Low carbon fuels/electric cars - Demand management/reduction - Improved behaviour
Other Objective(s)	
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the transport sector.
Type of policy Instrument	 Economic Education Fiscal Information Regulatory Voluntary/negotiated agreements
Union policy which resulted in the implementation of the PaM	Non related
Does the PaM relate to Air Pollution policy?	Yes

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period		
Implemented	2017				
Projections scenario in the PaM is included	which	With existing measures			
Entities responsible for implementing the policy		- Ministry of Environment and	- Ministry of Environment and Climate Action (National government)		
Indicators used to monit	tor and evalu	ate progress over time (ex-post	or ex-ante)		
Reference to assessmer underpinning technical i					
General Comments		Council of Ministers Resolution Strategy for Active Cycling M	on n.º 131/2019, of 2nd August, which approves the National obility 2020-2030.		

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt CC	02-equivalent per year)				
GHG emissions reductions for year 2030 (kt CC	02-equivalent per year)				
GHG emissions reductions for year 2035 (kt CC	02-equivalent per year)				
GHG emissions reductions for year 2040 (kt CC	02-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivalent p	per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits	
Year(s) for which cost has been calculated	
Price reference year	
Cost	
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	
Realised costs and benefits	
Year(s) for which cost has been calculated	

Price reference year

Cost

Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type	
of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	

15. To promote shared mobility and autonomous vehicles.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?		Single	Single			
Which policies or measu does it cover?	ires					
Short description		Promotion of vehicle sharing with the aim of reducing roa well-being and quality of life	services, focusing on electric mobility and active mobility, d traffic pressure, reducing GHG emissions, promoting the of populations.			
Geographical coverage		National				
Greenhouse gas(es) affe	ected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)				
Sector(s) affected		- Transport				
Objective(s)		- Demand management/red - Improved behaviour - Other transport	uction			
Other Objective(s)		- Transport: Shared mobility				
Quantified Objective		NA				
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999			rm strategy; contribute to the overall achievement of the GEE th special focus on the transport sector.			
Type of policy Instrume	nt	- Economic - Education - Fiscal - Information - Voluntary/negotiated agree	ements			
Union policy which resu the implementation of the		Non related				
Does the PaM relate to A Pollution policy?	Air	Yes				
Status of Implementatio	n					
Status of implementation	Start	Finish	Comment on Implementation Period			
Implemented	2012					

Projections scenario in which the PaM is included	With existing measures				
Entities responsible for implementing the policy	- Ministry of Environment ar	nd Climate Action	(National gove	ernment)	
Indicators used to monitor and evalua	ate progress over time (ex-pos	t or ex-ante)			
Reference to assessments and underpinning technical reports					
General Comments					
Table 2: Available results of e	ex-ante and ex-post ass	essments of	the effects	s of individ	dual or
groups of policies and measure	s on mitigation of climate	change			
Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025					
GHG emissions reductions for year 2030					
GHG emissions reductions for year 2035					
GHG emissions reductions for year 2040	(kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equiva	alent per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

16. To promote and support electric mobility.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single	
Which policies or measu does it cover?	ires		
Short description		road transport for renewable emissions. It is therefore imp	or in ensuring the progressive replacement of fossil fuels in electricity, contributing to an effective reduction of GHG portant to promote and support electric mobility by of electric vehicles and strengthening charging
Geographical coverage		National	
Greenhouse gas(es) affe	ected	- Carbon dioxide (CO2)	
Sector(s) affected		- Transport	
Objective(s)	ojective(s) - Electric road transport - Other transport		
Other Objective(s) - Transport: Improved charging infrastructures			ing infrastructures
Quantified Objective		NA	
Assessment of the contribution of the polic measure to the achiever the long-term strategy re to in Article 15 Regulatio 2018/1999	nent of eferred		m strategy; contribute to the overall achievement of the GEE th special focus on the transport sector.
Type of policy Instrume	nt	- Economic - Fiscal - Information - Voluntary/negotiated agree	ments
Union policy which resulted in the implementation of the PaM		Related: - Directive on the Promotion 2009/33/EC Other Union Policy:	of Clean and Energy Efficient Road Transport Vehicles
Does the PaM relate to A Pollution policy?	Air	Yes	
Status of Implementatio	n		
Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2010		

Projections scenario in which the PaM is included	With existing measures
Entities responsible for implementing the policy	- Ministry of Environment and Climate Action (National government)

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Order n.º 1612-B/2017 from Office of the Minister for the Environment in order to create an incentive for the introduction of low emission vehicles for consumption (introduction for consumption of a new 100% electric vehicle, without registration, as of 1 January 2017);

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt CC	D2-equivalent per year)				
GHG emissions reductions for year 2030 (kt CC	D2-equivalent per year)				
GHG emissions reductions for year 2035 (kt CC	D2-equivalent per year)				
GHG emissions reductions for year 2040 (kt CC	D2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivalent p	oer year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR	
Benefit		
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR	
Net Cost		
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR	
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)		
Description of non-GHG mitigation benefits		
Reference		
Realised costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in FUR per tonne CO2ea reduced/sequestered	Absolute gross costs per year in ELIB	

Gross costs in EUR per tonne CO2eq reduced/sequestered

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

17. To promote the production and consumption of alternative renewable fuels, namely Hydrogen including through development of alternative fuels infrastructure for clean fuels.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	National Action Framework for an Infrastructure of Alternative Fuels approved by the Resolution of the Council of Ministers n. ⁹ 88/2017, of 26 of June. Clean alternative fuels, in particular advanced biofuels and hydrogen, are an alternative and complementary solution to electric mobility on the 2030 and 2040 horizon, in particular for the long-haul, heavy passenger, road haulage sector, freight and aviation, to ensure the energy transition in this sector. Planning for adequate infrastructure developments is crucial in order to ensure reduced costs and efficient management. Requires revising the current alternative fuels infrastructure framework in light of the 2050 Carbon Neutrality Roadmap.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Energy Supply - Transport - Industrial Processes - Energy Consumption
Objective(s)	 Switch to less carbon-intensive fuels Reduce emissions from international air or maritime transport Other industrial processes Efficiency improvement in industrial end-use sectors
Other Objective(s)	 Industrial Processes: Promotion of low-carbon fuels Industrial Processes: Replacement of fossil fuels
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the energy, industry and transport sectors.
Type of policy Instrument	- Economic - Fiscal - Information - Regulatory - Research

Related:

Directive 2018/2001 on the promotion of the use of energy from renewable sources, recast of the directive 2009/28/EC
 Regulation (EU) 2019/1242 setting CO2 emission performance standards for new

heavy-duty vehicles Other Union Policy:

Does the PaM relate to A Pollution policy?	Air	Yes	
Status of Implementatio	n		
Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2017		
Projections scenario in the PaM is included	which	With existing measures	
Entities responsible for implementing the policy		- Ministry of Environment and C	Climate Action (National government)

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	National Hydrogen Plan, approved by the Resolution of the Council of Ministers n. ⁹ 63/2020 of 14th August.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, EU ETS				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2	025 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2	030 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2	035 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2	040 (kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					

Factors affected by the PaM

Reference **Ex-post assessment** GHG emissions reductions(kt CO2-equivalent per year) Year for which reduction applies EU ETS ESD/ESR LULUCF Total Explanation of the basis for the mitigation estimates Factors affected by the PaM Reference Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the

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estimate, methodology)

Realised costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR	
Benefit		
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR	
Net Cost		
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR	
Description of cost estimates (basis for cost estimate, what type		
of costs are included in the estimate, methodology)		
Description of non-GHG mitigation benefits		
Reference		

18. To promote decarbonisation of industry through eco-innovation and cleaner production processes and to promote industry digitization.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	In order to promote an innovative and competitive industry, it is necessary to promote the use of renewable resources, energy storage, electrification and the use of renewable gases. With a strongly renewable base electroproducer system, the aim is to promote and strengthen the use of electricity in different sectors of activity and economy, in parallel with the reinforcement of the use of other renewable energy sources such as biomass, biofuels and renewable gases. Reinforcing the prospects of the circular economy and technology innovation are key to identifying and creating innovative, efficient and zero-emission solutions over the next 30 years. Eco-innovation, digitalization and more sustainable business models are tools that drive decarbonization, which are different in terms of competitiveness and their promotion can translate into economic and environmental gains.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Energy Supply - Energy Consumption - Industrial Processes
Objective(s)	 Switch to less carbon-intensive fuels Efficiency improvement in industrial end-use sectors Other industrial processes
Other Objective(s)	 Industrial Processes: Promotion of low-carbon fuels Industrial Processes: Promote the use of other renewable energy sources such as waste-derived fuels.
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on industry sector. Promoting energy transition in industry, the incorporation of low-carbon production processes, promoting innovation and competitiveness. It contributes to the electrification of processes, to the use of renewable gases and to the increase of energy and resources efficiency, resulting in the reduction of GHG emissions.
Type of policy Instrument	- Economic - Fiscal - Information - Regulatory - Research

Union policy which resul the implementation of th			
Does the PaM relate to A Pollution policy?	ir	Yes	
Status of Implementation	ı		
Status of implementation	Start	Finish	Comment on Implementation Period
Adopted	2019		
Projections scenario in v the PaM is included	vhich	With additional measures	
Entities responsible for implementing the policy			d Climate Action (National government) gital Transition (National government)
Indicators used to monit	or and evalu	ate progress over time (ex-post	or ex-ante)
Reference to assessmen underpinning technical r			
General Comments		National Plan for the Promot Ministers Resolution n. ⁹ 163	on of Bio-refineries, approved through the Council of /2017, of October 31th.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, EU ETS				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2	2025 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2	2030 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2	2035 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2	2040 (kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					

Factors affected by the PaM

Reference **Ex-post assessment** GHG emissions reductions(kt CO2-equivalent per year) Year for which reduction applies EU ETS ESD/ESR LULUCF Total Explanation of the basis for the mitigation estimates Factors affected by the PaM Reference Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the

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estimate, methodology)

Realised costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR	
Benefit		
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR	
Net Cost		
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR	
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)		
Description of non-GHG mitigation benefits		
Reference		

19. To promote energy and resource efficiency, renewables and electrification; Industrial symbioses, resource optimization and resource reuse.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	To promote energy and resources efficiency in the industry sector, optimizing as much as possible the energy, water and material efficiency angles at the production process level. This is the intended to increase resource productivity, to separate economic growth from resource use and to increase competitiveness.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Energy Supply - Energy Consumption - Industrial Processes
Objective(s)	 Efficiency improvement in the energy and transformation sector Efficiency improvement in industrial end-use sectors Other industrial processes
Other Objective(s)	 Industrial Processes: Promotion of low-carbon fuels Industrial Processes: Industrial symbioses Industrial Processes: Resource optimization and resource reuse
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the industry sector. Promoting energy transition in industry, the incorporation of low-carbon production processes and industrial symbioses, promoting innovation and competitiveness. Contributes to increased efficiency in the use of energy and resources and the use of renewable sources.
Type of policy Instrument	- Economic - Fiscal - Information - Regulatory
Union policy which resulted in the implementation of the PaM	Related: - Directive 2018/2001 on the promotion of the use of energy from renewable sources, recast of the directive 2009/28/EC - Energy Efficiency Directive 2012/27/EU as amended by Directive 2018/2002 Other Union Policy:

Does the PaM relate to A Pollution policy?	ir	Yes				
Status of Implementation	ı					
Status of implementation	Start	Finish	Cor	nment on Imp	elementation Perio	bd
Implemented	2013					
Projections scenario in v the PaM is included	vhich	With existing measures				
Entities responsible for implementing the policy		- Ministry of Environment and - Ministry of Economy and D				
Indicators used to monit	or and evalu	uate progress over time (ex-post	or ex-ante)			
Reference to assessmen underpinning technical r						
General Comments						
	id measur ,	ex-ante and ex-post asse res on mitigation of climate - ESD/ESR, EU ETS				iuai or
Ex-ante assessment						
			EU ETS	ESR	LULUCF	Total
GHG emissions reductions	for year 2025	5 (kt CO2-equivalent per year)				
GHG emissions reductions	for year 2030	0 (kt CO2-equivalent per year)				
GHG emissions reductions	for year 203	5 (kt CO2-equivalent per year)				
GHG emissions reductions	for year 2040) (kt CO2-equivalent per year)				
Explanation of the basis for mitigation estimates	the					
Factors affected by the Pal	Λ					
Reference						
Ex-post assessment						

GHG emissions reductions(kt CO2-equivalent per year)

Year for which reduction applies

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits	
Year(s) for which cost has been calculated	
Price reference year	
Cost	
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	
Realised costs and benefits	
Year(s) for which cost has been calculated	

Price reference year

Cost

Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type	
of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	

20. Phase-out electricity production based on coal by 2021 and 2023.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	Promote the energy transition of the sector, with a view to the progressive reduction of the use of fossil fuels, investing heavily in endogenous renewable energy sources, reducing the country's energy dependence. Ensure the end of electricity production from coal of the remaining two power plants by 2021 (Pego and Sines) and 2023.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Energy Supply
Objective(s)	- Switch to less carbon-intensive fuels
Other Objective(s)	
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the energy sector. This measure contributes directly to the reduction of the power generation emissions and simultaneously promotes the transition to a low GHG emission economy and the transition to a more efficient energy system based on renewable energy.
Type of policy Instrument	- Fiscal - Planning
Union policy which resulted in the implementation of the PaM	 Related: Directive 2018/2001 on the promotion of the use of energy from renewable sources, recast of the directive 2009/28/EC Effort Sharing Regulation EU 2018/842 and implementing decision on ESR Annual Emission Allocations Effort Sharing Decision 406/2009/EC, ESD Annual Emission Allocation (AEA) Decision 2013/634/EU and Commission Decision (EU) 2017/1471 amending Decision 2013/162/EU Other Union Policy:

Does the PaM relate to Ai Pollution policy?	r	Yes				
Status of Implementation						
Status of implementation	Start	Finish	Comr	ment on Implen	nentation Perio	bd
Adopted	2019					
Projections scenario in w the PaM is included	hich	With additional measures				
Entities responsible for implementing the policy		- Ministry of Environment and C	limate Action ((National gover	nment)	
Indicators used to monito	or and evaluate j	progress over time (ex-post or	ex-ante)			
Reference to assessment underpinning technical re						
General Comments						
	d measures o	ante and ex-post assess on mitigation of climate ch - EU ETS				
Ex-ante assessment						
			EU ETS	ESR	LULUCF	Total
GHG emissions reductions f	or year 2025 (kt C	CO2-equivalent per year)				
GHG emissions reductions f	or year 2030 (kt C	CO2-equivalent per year)				
GHG emissions reductions f	or year 2035 (kt C	CO2-equivalent per year)				
GHG emissions reductions f	or year 2040 (kt C	CO2-equivalent per year)				
Explanation of the basis for t mitigation estimates	he					
Factors affected by the PaM						
Reference						
Ex-post assessment						
GHG emissions reductions(kt CO2-equivalen	t per year)				
Year for which reduction app	blies		EU ETS	ESD/ESR	LULUCF	Total

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits	
Year(s) for which cost has been calculated	
Price reference year	
Cost	
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	
Realised costs and benefits	
Year(s) for which cost has been calculated	

Price reference year

Cost

Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type	
of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	

21. Promote new energy storage solutions (batteries and hydrogen).

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single			
Which policies or measu does it cover?	ires				
Short description		the energy storage solutions. storage of energy and the pre untapped national hydroelect	of electricity through renewables it is essential to maximize In this context, hydrogen is essential once it allows the eparation of other renewable fuels. Furthermore, the ric potential will be assessed by establishing rigorous site byment of new major hydroelectric utilities, which can be		
Geographical coverage		National			
Greenhouse gas(es) affe	ected	- Carbon dioxide (CO2)			
Sector(s) affected		- Energy Supply			
Objective(s)		- Other energy supply			
Other Objective(s)			- Energy Supply: Promotion of new energy storage solutions (batteries, hydrogen and pumped-storage hydropower)		
Quantified Objective		NA			
Assessment of the contribution of the polic measure to the achiever the long-term strategy re to in Article 15 Regulatio 2018/1999	nent of eferred	emission reduction target wit energy is a fundamental pilla	m strategy; contribute to the overall achievement of the GEE h special focus on the energy sector. An efficient storage of r of the energy transition, as it allows flexibility in the rgy and ensures its integration in the system.		
Type of policy Instrume	nt	- Planning - Regulatory			
Union policy which resu the implementation of th		Non related			
Does the PaM relate to A Pollution policy?	Air	No			
Status of Implementatio	n				
Status of implementation	Start	Finish	Comment on Implementation Period		
Planned	2020				

Projections scenario in which the PaM is included	With additional measures				
Entities responsible for implementing the policy	- Ministry of Environment	and Climate Action (National gove	ernment)	
Indicators used to monitor and evaluate p	progress over time (ex-po	ost or ex-ante)			
Reference to assessments and underpinning technical reports					
General Comments					
Table 2: Available results of ex-a groups of policies and measures of			the effects	s of indivic	lual or
Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	-				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt C	O2-equivalent per year)				
GHG emissions reductions for year 2030 (kt C	O2-equivalent per year)				
GHG emissions reductions for year 2035 (kt C	O2-equivalent per year)				
GHG emissions reductions for year 2040 (kt C	O2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivalent	per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

Reference

22. Accelerate national energy transition to renewables.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	Establishment of incentives for production by the agricultural and the industry sectors of renewable energies (solar thermal, green heat, biomass, minicompanies, biomethane, others). Increase the introduction of renewable energies in final energy consumption, reducing the carbon intensity of the buildings stock (residential and services commercial). In the energy sector, evolution to a production based on solar (centralized and decentralized, promoting energy communities), wind (onshore and offshore) and hydroelectric (with and without pumping). Streamlining all aspects of promoting deployment of renewables. Capacity auctions for solar power deployment already ongoing in 2019.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	 Energy Supply Energy Consumption Transport Industrial Processes Agriculture Other Sectors
Objective(s)	 Increase in renewable energy Other energy consumption Other transport Other industrial processes Other agriculture Other objective(s)
Other Objective(s)	 Energy Consumption: Increase the introduction of renewable energies in final energy consumption Transport: Electrification of the sector Industrial Processes: Increase the cogeneration systems for energy generation (electricity, heat and cold) based on renewable energy sources. Agriculture: Increase the production and use of renewable energy sources Other Sectors: Thermal comfort - heating and cooling
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the energy, transport, industry and building sectors. Energy production and consumption will be based on endogenous and renewable energy sources, constituting in itself the greatest transformation of the energy paradigm in Portugal and one of the main PAM to reduce emissions.

Type of policy Instrument - Planning - Regulatory				
Union policy which resulted in the implementation of the PaM		Related:		
		- Directive 2018/2001 on t recast of the directive 2009	the promotion of the use of energy from renewable sources, 9/28/EC	
		Other Union Policy:		
Does the PaM relate to A Pollution policy?	Air	Yes		
Status of Implementatio	n			
Status of implementation	Start	Finish	Comment on Implementation Period	
Implemented	2013			
Projections scenario in the PaM is included	which	With existing measures		
Entities responsible for implementing the policy	,	- Ministry of Environment a	and Climate Action (National government)	

Reference to assessments and underpinning technical reports	
General Comments	National Action Plan for Energy Efficiency 2013 -2016 (PNAEE), approved through the Council of Ministers Resolution n. $^{\circ}$ 20/2013, of April 10th;

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, EU ETS					
Ex-ante assessment						
		EU ETS	ESR	LULUCF	Total	
GHG emissions reductions for year 20	25 (kt CO2-equivalent per year)					
GHG emissions reductions for year 20	030 (kt CO2-equivalent per year)					
GHG emissions reductions for year 20	035 (kt CO2-equivalent per year)					
GHG emissions reductions for year 20	040 (kt CO2-equivalent per year)					

Factors affected by the PaM

Reference				
Ex-post assessment				
GHG emissions reductions(kt CO2-equivalent per year)				
Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs a	nd benefits of ind	ividual or g	roups of p	olicies
and measures on mitigation of climate change				
Projected costs and benefits				
Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross cos	sts per year in E	UR	

Benefit

Benefits in EUR per tonne CO2eq reduced/ sequestered

Net Cost

Net costs in EUR per tonne CO2eq reduced/ sequestered

Absolute benefit per year in EUR

Absolute net cost per year in EUR

Description of non-GHG mitigation benefits

Reference

Realised costs and benefits

Year(s) for which cost has been calculated

Price reference year

Cost

 Gross costs in EUR per tonne CO2eq reduced/sequestered
 Absolute gross costs per year in EUR

 Benefit
 Benefit is in EUR per tonne CO2eq reduced/sequestered

 Net Cost
 Absolute benefit per year in EUR

 Net costs in EUR per tonne CO2eq reduced/sequestered
 Absolute net cost per year in EUR

 Description of cost estimates (basis for cost estimates, what type of costs are included in the estimate, methodology)
 Description of non-GHG mitigation benefits

Reference

23. To promote greater electricity network intelligence and flexibility.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a g of PaMs?	group	Single	
Which policies or measur does it cover?	res		
Short description			nd to maximize electricity from renewable sources the ystems, producer and/or consumer aggregators and ucial role.
Geographical coverage		National	
Greenhouse gas(es) affe	cted	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)	
Sector(s) affected		- Energy Consumption	
Objective(s)		 Efficiency improvements of building Efficiency improvement in services Efficiency improvement in industria Demand management/reduction 	/ tertiary sector
Other Objective(s)			
Quantified Objective		NA	
Assessment of the contribution of the policy measure to the achievem the long-term strategy re- to in Article 15 Regulation 2018/1999	ent of ferred	PAM included in the long-term strate emission reduction target with speci contributes for the reduction of emis	egy; contribute to the overall achievement of the GEE ial focus on the energy and buildings sectors. It ssions and to energy efficiency.
Type of policy Instrumen	t	- Regulatory	
Union policy which result the implementation of the		Related: - Other (Union policy not listed above Other Union Policy: - 2012/148/EU: Commission Recommendation roll-out of smart metering systems	ve or additional Union policy) nmendation of 9 March 2012 on preparations for the
Does the PaM relate to A Pollution policy?	ir	No	
Status of Implementation	I		
Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2015		

Projections scenario in which the PaM is included	With existing measures				
Entities responsible for implementing the policy	- Ministry of Environment a	- Ministry of Environment and Climate Action (National government)			
Indicators used to monitor and evaluation	ate progress over time (ex-pos	st or ex-ante)			
Reference to assessments and underpinning technical reports					
General Comments					
Table 2: Available results of e	ex-ante and ex-post ass	essments of	the effects	s of individ	dual or
groups of policies and measure	s on mitigation of climate	change			
Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
	(1. 0.00 ·	EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025					
GHG emissions reductions for year 2030					
GHG emissions reductions for year 2035					
GHG emissions reductions for year 2040	(kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equiva	alent per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

Reference

24. Promoting energy rehabilitation of buildings, NZEB buildings, the use of more energy efficient equipment and renewables.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	 The rehabilitation of buildings and making them more efficient, allows to achieve several objectives simultaneously, either by reducing the energy bill, reducing emissions or improving health and comfort, which is why the energy renovation of buildings must be a priority. To this end, the following measures will be adopted: Promotion of a long-term strategy for the renovation of buildings; Update of the Energy Certification System for Buildings; Availability of a new version of the Energy Certificate; Review of the Energy Efficiency Regulations in Housing and Service Buildings (public and private); Promotion on NZEN buildings. It is also essential to update the equipment feet (appliances and electronic equipment) making it more efficient, either through direct replacement or by discouraging the purchase of new equipment with significantly lower energy and environmental performance than the best practices already on the market, or by encouraging a behavior change in the acquisition and consumption of energy.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Energy Consumption
Objective(s)	 Efficiency improvements of buildings Efficiency improvement of appliances Efficiency improvement in services/ tertiary sector Demand management/reduction Other energy consumption
Other Objective(s)	- Energy Consumption: Increase the introduction of renewable energies
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the buildings sector. Focusing on urban regeneration and increasing energy efficiency in buildings, encouraging the progressive electrification of the sector and the use of more efficient equipment, and combating energy poverty. Its main objective is to increase the energy efficiency of the sector, thus contributing to the reduction of emissions from the buildings sector.
Type of policy Instrument	- Economic - Fiscal - Regulatory - Voluntary/negotiated agreements

Union policy which result the implementation of the Does the PaM relate to A Pollution policy?	e PaM	Related: - Energy Efficiency Directive 2 - Recast of the Energy Perform amended by the Directive 2018 Other Union Policy: No	nance of Buildi	amended by E ngs Directive	Directive 2018/2 (Directive 2010	2002 /31/EU) and
Status of Implementation		-	0			
Status of implementation	Start	Finish	Com	ment on Imple	mentation Perio	DD
Implemented	2013					
Projections scenario in w the PaM is included	/hich	With existing measures				
Entities responsible for implementing the policy		- Ministry of Environment and (Climate Action	(National gove	ernment)	
Indicators used to monito	or and evaluate p	progress over time (ex-post o	r ex-ante)			
Reference to assessmen underpinning technical re						
General Comments						
		ante and ex-post asses n mitigation of climate ch		the effect	s of individ	lual or
Policy impacting EU ETS LULUCF and/or ESD/ESR emissions		- ESD/ESR				
Ex-ante assessment						
			EU ETS	ESR	LULUCF	Total
GHG emissions reductions	for year 2025 (kt C	CO2-equivalent per year)				
GHG emissions reductions	for year 2030 (kt C	CO2-equivalent per year)				
GHG emissions reductions	for year 2035 (kt C	CO2-equivalent per year)				
GHG emissions reductions	for year 2040 (kt C	CO2-equivalent per year)				

Explanation of the basis for the mitigation estimates

Factors affected by the PaM

Ex-post assessment				
GHG emissions reductions(kt CO2-equivalent per year)				
Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs	and benefits of ind	ividual or g	roups of p	olicies
and measures on mitigation of climate change				
Projected costs and benefits				
Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross cos	ts per year in E	UR	
Benefit				
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit pe	r year in EUR		
Net Cost				
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost p	er year in EUR		
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)				
Description of non-GHG mitigation benefits				

Absolute gross costs per year in EUR	
Absolute benefit per year in EUR	
Absolute net cost per year in EUR	
	Absolute benefit per year in EUR

25. Promoting decarbonisation options in the public administration.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	Decarbonising public administration, in the transport and mobility, buildings and public purchases vectors, providing public administration with low carbon mobility options, reducing energy intensity and increasing the efficiency of its transport fleet, promoting a low carbon building stock and adopting low-carbon requirements in public purchases made.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Energy Consumption - Transport
Objective(s)	 Efficiency improvement of appliances Efficiency improvement in services/ tertiary sector Demand management/reduction Other energy consumption Efficiency improvements of vehicles Electric road transport
Other Objective(s)	- Energy Consumption: Increase the introduction of renewable energies.
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the building and transport sector. It contributes also to increasing energy and resource efficiency in public administration.
Type of policy Instrument	- Planning - Regulatory
Union policy which resulted in the implementation of the PaM	Related: - Directive 2018/2001 on the promotion of the use of energy from renewable sources, recast of the directive 2009/28/EC - Energy Efficiency Directive 2012/27/EU as amended by Directive 2018/2002 Other Union Policy:

Status of Implementatio	n		
Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2014		
Projections scenario in t the PaM is included	which	With existing measures	
Entities responsible for implementing the policy		- Ministry of Finance (Nation	d Climate Action (National government) al government) nd Housing (National government)

Reference to assessments and underpinning technical reports	
General Comments	Energy Efficiency Program in Public Administration - ECO.AP, created through the Council of Ministers Resolution n. ^o 2/2011, of January 12th; Sustainable Mobility Program for Public Administration - ECO.mob 2015-2020, approved through the Council of Ministers Resolution n. ^o 54/2015, of 28th July; National Strategy for Green Public Procurement (ENCPE 2020), approved through the Resolution of the Council of Ministers n. ^o 38/2016, of July 29th.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2030 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2035 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2040 (kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Ex-post assessment				
GHG emissions reductions(kt CO2-equivalent per year)				
Year for which reduction applies	EU ETS ES	SD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs	and benefits of individ	ual or ç	groups of p	olicies
and measures on mitigation of climate change				
Projected costs and benefits Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs pe	r year in E	EUR	
Benefit				
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per yea	r in EUR		
Net Cost				
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per ye	ar in EUR	1	
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)				
Description of non-GHG mitigation benefits				

Absolute gross costs per year in EUR	
Absolute benefit per year in EUR	
Absolute net cost per year in EUR	
	Absolute benefit per year in EUR

26. To improve the management of energy consumption in the various sectors of the national economy.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	Significantly improving energy consumption management by reducing consumption and costs associated with running businesses and managing the domestic economy significantly contributes to increasing the competitiveness of the economy and sectors by freeing up resources to boost domestic demand and new markets investments. In this context, it is essential to promote investment in an efficient, next-generation Public Lighting that allows the lighting levels needed for pedestrian and vehicle safety to be adjusted, increasing energy savings, enabling the penetration of new features and applications, and empowering Smart Cities.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	 Energy Consumption Transport Industrial Processes Agriculture
Objective(s)	 Efficiency improvements of buildings Efficiency improvement in services/ tertiary sector Efficiency improvement in industrial end-use sectors Demand management/reduction Efficiency improvements of vehicles Other industrial processes Other agriculture
Other Objective(s)	 Industrial Processes: Improve the management of energy consumption Industrial Processes: Promotion of low-carbon fuels Agriculture: Sustainable agriculture through increased energy and water efficiency. Agriculture: Enhancing carbon sequestration
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target of all sectors. It contributes to the reduction of emissions by promoting the reduction of energy consumption in the various sector of the economy.
Type of policy Instrument	- Economic - Regulatory - Voluntary/negotiated agreements

Union policy which resulted in the implementation of the PaM		Non related			
Does the PaM relate to Air Pollution policy?		Yes	Yes		
Status of Implementation	ı				
Status of implementation	Start	Finish	Comment on Implementation Period		
Implemented	2014				
Projections scenario in v the PaM is included	vhich	With existing measures			
Entities responsible for implementing the policy		- Ministry of Environment and	Climate Action (National government)		

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Decree-Law n.º 71/2008 of 15th of April, amended by Decree-Law n.º 7/2013 of 22nd January. Regulates the System of Management of Intensive Energy Consumption (SGCIE), established with the aim of promoting energy efficiency and monitoring the energy consumption of energy-intensive consumer installations.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, EU ETS				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 20	25 (kt CO2-equivalent per year)				
GHG emissions reductions for year 203	30 (kt CO2-equivalent per year)				
GHG emissions reductions for year 20	35 (kt CO2-equivalent per year)				
GHG emissions reductions for year 20-	40 (kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					

Ex-post assessment

GHG emissions reductions(kt CO2-equivalent per year)

Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Table 3: Available projected and realised costs and and measures on mitigation of climate change	benefits of indi	ividual or g	roups of p	oolicies
Projected costs and benefits Year(s) for which cost has been calculated				
Price reference year				
Cost				
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross cost	ts per year in E	UR	
Benefit				
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit pe	r year in EUR		
Net Cost				
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost p	er year in EUR		
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)				
Description of non-GHG mitigation benefits				

Realised costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR	
Benefit		
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR	
Net Cost		
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR	
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)		
Description of non-GHG mitigation benefits		

27. To promote the production and consumption of renewable gases.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

Is this a single PaM or a of PaMs?	group	Single		
Which policies or measu does it cover?	res			
Short description		The potential of renewable gases as an efficient fuel for heat/cold, electricity or trar is recognized as one of the viable alternatives to a low carbon economy, promoting fuel substitution and reducing the country's energy dependence.		
Geographical coverage		National		
Greenhouse gas(es) affe	cted	- Carbon dioxide (CO2)		
Sector(s) affected		 Energy Supply Energy Consumption Waste management/waste Transport Industrial Processes 		
Objective(s)		 Increase in renewable energy Increase in renewable energy in the heating and cooling sector Other energy consumption Enhanced CH4 collection and use Low carbon fuels/electric cars Other industrial processes 		
Other Objective(s) - Energy Consumption: Increase the - Industrial Processes: Promotion of - Industrial Processes: Promotion of				
Quantified Objective		NA		
		PAM included in the long-ten emission reduction target in	m strategy; contribute to the overall achievement of the GEE almost all sectors.	
Type of policy Instrument		- Planning - Regulatory		
Union policy which resul the implementation of th		Non related		
Does the PaM relate to A Pollution policy?	ir	Yes		
Status of Implementation	ı			
Status of implementation	Start	Finish	Comment on Implementation Period	
Planned	2020			

Projections scenario in which the PaM is included	With additional measures
Entities responsible for implementing the policy	- Ministry of Environment and Climate Action (National government)

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	National Hydrogen Plan, approved by the Resolution of the Council of Ministers n. $^{\circ}$ 63/2020 of 14th August

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR, EU ETS				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt					
GHG emissions reductions for year 2030 (kt					
GHG emissions reductions for year 2035 (kt					
GHG emissions reductions for year 2040 (kt	CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivaler	nt per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR Benefit Benefits in EUR per tonne CO2eq reduced/ sequestered Absolute benefit per year in EUR Net Cost Net costs in EUR per tonne CO2eq reduced/ sequestered Absolute net cost per year in EUR Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology) Description of non-GHG mitigation benefits Reference **Realised costs and benefits** Year(s) for which cost has been calculated Price reference year Cost Gross costs in EUR per tonne CO2eq reduced/sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

Reference

28. Carbon tax for non EU ETS sectors.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

type of policy instrument

Is this a single PaM or a of PaMs?	group	Single	
Which policies or measu does it cover?	ires		
Short description		EU ETS sectors in 2015, in	ting in EU ETS since 2005 and adopted a carbon tax for non the form of an addition to the Petroleum and Energy Products een Tax Law". Its amount is linked to ETS allowances average
Geographical coverage		National	
Greenhouse gas(es) affected		- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)	
Sector(s) affected		- Energy Consumption	
Objective(s)		- Demand management/red	uction
Other Objective(s)			
Quantified Objective		NA	
Assessment of the contribution of the policy measure to the achieven the long-term strategy re to in Article 15 Regulatio 2018/1999	nent of eferred		rm strategy; contribute to the overall achievement of the GEE several sectors. Its premise is to promote changes in irther decarbonisation.
Type of policy Instrumer	nt	- Fiscal	
Union policy which resul the implementation of th		Non related	
Does the PaM relate to Air Pollution policy?		No	
Status of Implementation	n		
Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2015		

Projections scenario in which the PaM is included	With existing measures
Entities responsible for implementing the policy	 Ministry of Finance (National government) Ministry of Environment and Climate Action (National government)

Indicators used to monitor and evaluate progress over time (ex-post or ex-ante)

Reference to assessments and underpinning technical reports	
General Comments	Law n.º 82-D/2014 of 31st of December, amended by Law n.º 114/2017 of 29th December and Law n.º 119/2019 of 18th september.

Table 2: Available results of ex-ante and ex-post assessments of the effects of individual or

groups of policies and measures on mitigation of climate change

Policy impacting EU ETS, LULUCF and/or ESD/ESR emissions	- ESD/ESR				
Ex-ante assessment					
		EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt CC	D2-equivalent per year)				
GHG emissions reductions for year 2030 (kt Co	D2-equivalent per year)				
GHG emissions reductions for year 2035 (kt CC	D2-equivalent per year)				
GHG emissions reductions for year 2040 (kt Co	D2-equivalent per year)				
Explanation of the basis for the mitigation estimates					
Factors affected by the PaM					
Reference					
Ex-post assessment					
GHG emissions reductions(kt CO2-equivalent	per year)				
Year for which reduction applies		EU ETS	ESD/ESR	LULUCF	Total
Explanation of the basis for the mitigation estimates					

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR	
Benefit		
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR	
Net Cost		
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR	
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)		
Description of non-GHG mitigation benefits		
Reference		
Realised costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in FLIB per tonne CO2ea reduced/sequestered	Absolute gross costs per year in FLIB	

Gross costs in EUR per tonne CO2eq reduced/sequestered

Benefit

Benefits in EUR per tonne CO2eq reduced/sequestered

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per tonne CO2eq reduced/sequestered

Absolute net cost per year in EUR

Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)

Description of non-GHG mitigation benefits

Reference

29. Regulation on CO2 for Cars and Vans.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

type of policy instrument

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	Implementation of the Regulation on CO2 from cars and vans: - 2009/443/EC; - (EU) n.º 510/2011; - (EU) n.º 397/2013; - (EU) n.º 333/2014; - (EU) n.º 253/2014; - 2013/128/EU; - (EU) n.º 396/2013; - (EU) n.º 114/2013.
Geographical coverage	National
Greenhouse gas(es) affected	- Carbon dioxide (CO2) - Methane (CH4) - Nitrous oxide (N2O)
Sector(s) affected	- Transport
Objective(s)	- Low carbon fuels/electric cars - Electric road transport - Other transport
Other Objective(s)	- Transport: CO2 emission performance standards
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on transport sector.
Type of policy Instrument	- Regulatory
Union policy which resulted in the implementation of the PaM	 Related: Regulation 2019/631 setting CO2 emission performance standards for new passenger cars and for new light commercial vehicles, and repealing Regulations (EC) No 443/2009 and (EU) No 510/2011 Regulation (EU) 2019/1242 setting CO2 emission performance standards for new heavy-duty vehicles Other Union Policy:

Does the PaM relate to Ai Pollution policy?	ir	Yes				
Status of Implementation	1					
Status of implementation	Start	Finish	Corr	ment on Impler	mentation Peric	od
Implemented	2009					
Projections scenario in w the PaM is included	hich	With existing measures				
Entities responsible for implementing the policy		 Ministry of Finance (National Ministry of Environment and Ministry of Infrastructure and 	Climate Action	(National gove onal governme	rnment) nt)	
Indicators used to monito	or and evaluate p	progress over time (ex-post c	er ex-ante)			
Reference to assessment underpinning technical re						
General Comments						
	d measures o ,	ante and ex-post asses n mitigation of climate cl - ESD/ESR		the effects	s of individ	ual or
Ex-ante assessment						
			EU ETS	ESR	LULUCF	Total
GHG emissions reductions f	for year 2025 (kt C	O2-equivalent per year)				
GHG emissions reductions f	for year 2030 (kt C	O2-equivalent per year)				
GHG emissions reductions f	for year 2035 (kt C	O2-equivalent per year)				
GHG emissions reductions f	for year 2040 (kt C	:O2-equivalent per year)				
Explanation of the basis for mitigation estimates	the					
Factors affected by the PaN	1					
Reference						
Ex-post assessment						
GHG emissions reductions(kt CO2-equivalent	per year)				
Year for which reduction ap	nling		EU ETS	ESD/ESR	LULUCF	Total

Explanation of the basis for the mitigation estimates

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits

Year(s) for which cost has been calculated

Price reference year

Cost

Gross costs in EUR per tonne CO2eq reduced/ sequestered Absolute gross costs per year in EUR

Benefit

Benefits in EUR per tonne CO2eq reduced/ sequestered

Net Cost

Net costs in EUR per tonne CO2eq reduced/ sequestered

Absolute net cost per year in EUR

Absolute benefit per year in EUR

Description of cost estimates basis for cost estimate, what type if costs are included in the estimate, methodology)	
Description of non-GHG mitigation penefits	
Reference	
Realised costs and benefits	

Year(s) for which cost has been calculated

Cost	
Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates	
(basis for cost estimate, what type of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	

30. Implementation of the fluorinated gas regime.

Table 1: Sectors and gases for reporting on policies and measures and groups of measures, and

type of policy instrument

Is this a single PaM or a group of PaMs?	Single
Which policies or measures does it cover?	
Short description	Implementation of the provisions laid down in Regulation (EU) n. ² 517/2014 of the European Parliament and the Council, of 16th April 2014, in order to promote their substitution by other substances with lower or no GWP. This regulation took into consideration the Kigali Agreement percentage targets for average HFC emissions for the period 2011-2013. Additionally, Portugal also has to implement the 2006 Directive on Mobile Air Conditioning restrictions (Directive 2006/40/EC), which prohibits the use of fluorinated gases with a GWP value greater than 150 in new types of cars and vans introduced from 2011 and on all new cars and vans from 2017.
Geographical coverage	National
Greenhouse gas(es) affected	- Hydrofluorocarbons (HFC) - Perfluorocarbons (PFC) - Sulphur hexafluoride (SF6)
Sector(s) affected	- Industrial Processes
Objective(s)	 Improved control of manufacturing fugitive and disposal emissions of fluorinated gases Replacement of fluorinated gases by other substances
Other Objective(s)	
Quantified Objective	NA
Assessment of the contribution of the policy or measure to the achievement of the long-term strategy referred to in Article 15 Regulation (EU) 2018/1999	PAM included in the long-term strategy; contribute to the overall achievement of the GEE emission reduction target with special focus on the industry sector.
Type of policy Instrument	- Regulatory
Union policy which resulted in the implementation of the PaM	Related: - F-gas Regulation 517/2014 - Mobile Air-conditioning system (MACs) Directive 2006/40/EC - F-gas Regulation 2006/842/EC Other Union Policy:
Does the PaM relate to Air Pollution policy?	No

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2015		
Projections scenario in v the PaM is included	which	With existing measures	
Entities responsible for implementing the policy			d Climate Action (National government) nd Housing (National government)
Reference to assessmer underpinning technical ı	nts and	uate progress over time (ex-pos	
General Comments			
Table 2: Available	results of	ex-ante and ex-post ass	essments of the effects of individual or
aroups of policies ar	nd measur	es on mitigation of climate	change

Policy impacting EU ETS, - ESD/ESR LULUCF and/or ESD/ESR emissions				
Ex-ante assessment				
	EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2030 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2035 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2040 (kt CO2-equivalent per year)				
Explanation of the basis for the mitigation estimates				
Factors affected by the PaM				
Reference				
Ex-post assessment				
GHG emissions reductions(kt CO2-equivalent per year)				
Year for which reduction applies	EU ETS	ESD/ESR	LULUCF	Total

Factors affected by the PaM

Reference

Table 3: Available projected and realised costs and benefits of individual or groups of policies and measures on mitigation of climate change

Projected costs and benefits		
Year(s) for which cost has been calculated		
Price reference year		
Cost		
Gross costs in EUR per tonne CO2eq reduced/ sequestered	Absolute gross costs per year in EUR	
Benefit		
Benefits in EUR per tonne CO2eq reduced/ sequestered	Absolute benefit per year in EUR	
Net Cost		
Net costs in EUR per tonne CO2eq reduced/ sequestered	Absolute net cost per year in EUR	
Description of cost estimates (basis for cost estimate, what type of costs are included in the estimate, methodology)		
Description of non-GHG mitigation benefits		
Reference		
Realised costs and benefits		
Year(s) for which cost has been calculated		

Price reference year

Cost

Gross costs in EUR per tonne CO2eq reduced/sequestered	Absolute gross costs per year in EUR
Benefit	
Benefits in EUR per tonne CO2eq reduced/sequestered	Absolute benefit per year in EUR
Net Cost	
Net costs in EUR per tonne CO2eq reduced/sequestered	Absolute net cost per year in EUR
Description of cost estimates (basis for cost estimate, what type	
of costs are included in the estimate, methodology)	
Description of non-GHG mitigation benefits	
Reference	