Integrated national policies and measures. Progress accomplished towards implementing the national policies and measures

1. EU Emission Trading Scheme ETS)

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The objective is to limit the CO2 emission from the energy industries, manufacturing industries and from industrial processes, as well as N2O emissions from the chemical industry and CO2 emissions from aircraft operators through the EU-wide trading mechanism for emission allowances.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Other objectives and targets, including sector targets and adaptation goals(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)
- Nitrous oxide (N2O)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Consumption
- Energy Supply
- Industrial Processes

Objective(s)

- Efficiency improvement in industrial end-use sectors
- Switch to less carbon-intensive fuels
- Efficiency improvement in the energy and transformation sector
- Installation of abatement technologies

Other Objective(s)

Quantified Objective

Emission limits are given according to the annual allocated emission for the trading sector.

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

The implementation of the PaM is a basis for further measures to achieve the LTS target of net zero GHG emissions in 2050.

Type of policy Instrument

- Economic
- Regulatory

Describe the other 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:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2005	2030	

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

Emissions of sectors affected by the ETS decreased by about 10% since 2013.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Umweltbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023()

General Comments

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

- 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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production | Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

2. Domestic Environmental Support Scheme

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The objective of the Domestic Environmental Support Scheme is environmental protection, to be achieved through the prevention and reduction of GHG, air polllutants, noise and waste. It provides financial support to projects which improve environmental performance beyond mandatory standards in the energy, manufacturing as well as service industry. The Ministry of Sustainability and Tourism puts the focus of its funding policy on climate change. Until 2017, most projects focused on mobility, efficient energy use and renewable energy. For example, electric cars, the distribution of heat and the switch to LED lighting and biomass heating were funded.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Energy efficiency
- Decarbonisation: Renewable energy

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- The indicative national energy efficiency contribution to achieving the Union's energy efficiency targets of at least 32,5 % in 2030 as referred to in Article 1(1) and Article 3(5) of Directive 2012/27/EU(Energy efficiency)
- A contribution to the Union's binding target of at least 32% renewable energy in 2030 as referred to in Article 3 of Directive (EU) 2018/2001(Decarbonisation: Renewable energy)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)
- Methane (CH4)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Transport
- Energy Consumption
- Energy Supply

Objective(s)

- Efficiency improvements of vehicles
- Electric road transport
- Efficiency improvement in services/ tertiary sector
- Efficiency improvement in industrial end-use sectors
- Increase in renewable energy
- Increase in renewable energy in the heating and cooling sector
- Efficiency improvement in the energy and transformation sector

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS target of net zero GHG emissions in 2050.

Type of policy Instrument

- Economic

Describe the other policy Instrument

- Economic
-

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

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

District heating and cooling Art. 24 REDII; Mainstreaming renewable energy in heating and cooling Art. 23 REDII; Other EED-related measures

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	1993		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

According to the latest evaluation, the projects funded in 2021 are expected to achieve an annual CO2 reduction of approx. 349 ktonnes. The CO2 savings achieved through projects funded in 2017 will amount to 6.0 million tonnes over the whole lifetime of the projects.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Kommunalkredit Public Consulting: Förderberichte(https://www.umweltfoerderung.at/)

General Comments

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

- 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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production | Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

3. Austrian Climate and Energy Fund

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

In 2007, the Federal Government established a specific fund (Climate and Energy Fund – KLI.EN) in order to support the reduction of GHGs in Austria in the short, medium and long term (Federal Law Gazette I No. 40/2007). It focuses on research in and development of renewable energy systems, development and testing of new transport and mobility systems and market penetration of sustainable energy technologies.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Energy efficiency
- Research, innovation and competitiveness

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- The indicative national energy efficiency contribution to achieving the Union's energy efficiency targets of at least 32,5 % in 2030 as referred to in Article 1(1) and Article 3(5) of Directive 2012/27/EU(Energy efficiency)
- National 2050 objectives related to the promotion of clean energy technologies and, where appropriate, national objectives, including long-term targets (2050) for deployment of low-carbon technologies, including for decarbonising energy and carbon-intensive industrial sectors and, where applicable, for related carbon transport and storage infrastructure(Research, innovation and competitiveness)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-
- Sustainable transport
- Energy efficiency

Supported Clean energy / low carbon technologies

-
- Electric vehicles
- Integration of renewables in buildings
- Thermal performance of building

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Supply
- Transport

Objective(s)

- Increase in renewable energy
- Increase in renewable energy in the heating and cooling sector
- Electric road transport
- Improved transport infrastructure

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS target of net zero GHG emissions in 2050.

Type of policy Instrument

- Economic
- Education
- Planning
- Research

Describe the other policy Instrument

- Economic
- Education
- Planning
- Research
-

Union policy which resulted in the implementation of the PaM

Non related

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other EED-related measures

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2007		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

No recent evaluation of the effects of this policy is available.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Klima- und Energiefonds: Evaluierungsberichte(https://www.klimafonds.gv.at/mediathek/publikationen/#evaluierung)

General Comments

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 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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production | Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

4. Increase the share of renewable energy in power supply and district heating

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

Beyond the traditional use of large-scale hydro power for electricity generation, quantitative targets have been set for the increase of the share of wind power, photovoltaics, small hydro plants and biomass/biogas in electricity generation in the Green Electricity Act and shall be achieved by fixed feed-in tariffs. A new law to extend the scope beyond 2020 is under discussion.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Decarbonisation: Renewable energy
- Internal energy market
- Energy security

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- A contribution to the Union's binding target of at least 32% renewable energy in 2030 as referred to in Article 3 of Directive (EU) 2018/2001(Decarbonisation: Renewable energy)
- National objectives related to other aspects of the internal energy market such as increasing system flexibility, in particular related to the promotion of competitively determined electricity prices in line with relevant sectoral law, market integration and coupling, aimed at increasing the tradeable capacity of existing interconnectors, smart grids, aggregation, demand response, storage, distributed generation, mechanisms for dispatching, re-dispatching and curtailment, and real-time price signals(Internal energy market)
- National objectives with regard to increasing the flexibility of the national energy system, in particular by means of deploying domestic energy sources, demand response and energy storage(Energy security)

Vector(s) affected

-
- Electricity
- Gas

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Supply

Objective(s)

- Increase in renewable energy
- Increase in renewable energy in the heating and cooling sector

Other Objective(s)

Quantified Objective

2020-2030: Hydropower +5000 GWh; Wind power +10000 GWh; Photovoltaics +11000 GWh; Biomass + 1000 GWh

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the energy sector.

Type of policy Instrument

- Economic
- Regulatory

Describe the other policy Instrument

- Economic
- 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

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Achieve the national contribution to the 2030 binding Union target for renewable energy as indicated in point (Art. 4(a)(2) of REDII), including sector- and technology-specific measures Art. 20(b)(1) of Governance Regulation

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2002		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Installed capacity of renewable power plants (MW)

Year1	2003	Value1	491.0
Year2	2010	Value2	1459.0

Year3	2015	Value3	3868.0
Year4	2020	Value4	5928.0

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

The share of renewable energy in power production has increased from 66% in 2010 to 78% in 2020.

Progress against policy indicators

Indicator

- renewable energy in power production
- renewable energy in power production

Year

- 2010
- 2020

Value

- 66
- 78

Unit

- MW

Reference to assessments and underpinning technical reports

- e-control: Annual report on the development of green electricity (Ökostromberichte)(https://www.e-control.at/en/publikationen/oeko-energie-und-energie-effizienz/berichte/oekostrombericht)

General Comments

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

- EU ETS

Ex-ante assessment

	EU ETS	ESR	LULUCF	Total
GHG emissions reductions for year 2025 (kt CO2-equivalent per year)	5020.0			5020.0
GHG emissions reductions for year 2030 (kt CO2-equivalent per year)	10900.0			10900.0
GHG emissions reductions for year 2035 (kt CO2-equivalent per year)				
GHG emissions reductions for year 2040 (kt CO2-equivalent per year)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production	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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production	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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction	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)

Reference

Description of other benefits

5. Increase energy efficiency in energy and manufacturing industries

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

Based on EU legislation, Austria has implemented the Energy efficiency Directive (2012/27/EU) and prepared its latest National Energy Efficiency Action Plan in 2017 with quantitative targets for final and primary energy consumption in 2020. In addition, financial support for cogeneration of power and heat is granted in order to improve the efficient use of primary energy for electricity production.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Energy efficiency

Relevant objective, target or contribution the policy or measure contributes to

- Member State's binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- The cumulative amount of end-use energy savings to be achieved over the period 2021-2030 under point (b) of Article 7(1) on the energy saving obligations pursuant to Directive 2012/27/EU(Energy efficiency)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO_2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Consumption
- Energy Supply

Objective(s)

- Efficiency improvements of buildings
- Efficiency improvement of appliances
- Efficiency improvement in services/ tertiary sector
- Efficiency improvement in industrial end-use sectors
- Efficiency improvement in the energy and transformation sector

Other Objective(s)

Quantified Objective

Energy efficiency target of 1050 PJ (final energy consumption) in 2020

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the energy sector.

Type of policy Instrument

- Economic
- Planning
- Regulatory

Describe the other policy Instrument

- Economic
- Planning
- Regulatory
-

Union policy which resulted in the implementation of the PaM

Related:

- Energy Efficiency Directive 2012/27/EU as amended by Directive 2018/2002

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Energy Efficiency Obligation Scheme Art. 7 EED; Energy audits in large enterprises Art. 8 EED

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2008		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- Regional entities:Federal provinces
- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Final energy consumption (PJ)

Year1	2013	Value1	1109.0
Year2	2015	Value2	1097.0
Year3	2017	Value3	1142.0
Year4	2020	Value4	1156.0

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

PaM has not resulted in substantial reduction in energy consumption

Progress against policy indicators

Indicator

Year

Value

Unit

- PJ

Reference to assessments and underpinning technical reports

- Statistics Austria: Energy balances for Austria (Energiebilanzen)(https://www.statistik.at/web_de/statistiken/energie_umwelt_innovation_mobilitaet/energie_und_umwelt/energie/energiebilanzen/index.html)

General Comments

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 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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production | Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

6. Increase the share of clean energy sources in road transport

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

Implementation of Directive 2009/28/EC on the promotion of the use of energy from renewable sources (requires Member States to replace at least 14% of the fuels used in transport by renewables (biofuels and electricity from renewable energy sources) by 2030. On top, EU CO2 reduction targets for Passenger Cars (PC) and Light-duty Vehicles (LDV) will foster a substantial share in electric-mobility.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Decarbonisation: Renewable energy

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- A contribution to the Union's binding target of at least 32% renewable energy in 2030 as referred to in Article 3 of Directive (EU) 2018/2001(Decarbonisation: Renewable energy)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)
- Methane (CH4)
- Nitrous oxide (N2O)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Transport

Objective(s)

- Low carbon fuels/electric cars
- Electric road transport

Other Objective(s)

Quantified Objective

14% share of renewable energy in transport by 2030 ; 100% Battery Electric Vehicle (BEV) new Passenger Cars (PC) and Light-duty Vehicles (LDV) registrations from 2035 onwards

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the transport sector.

Type of policy Instrument

- Economic
- Regulatory

Describe the other policy Instrument

- Economic
- 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
- Fuel Quality Directive 2009/30/EC
- Biofuels directive 2003/30/EC

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Achieve the national contribution to the 2030 binding Union target for renewable energy as indicated in point (Art. 4(a)(2) of REDII), including sector- and technology-specific measures Art. 20(b)(1) of Governance Regulation; Calculation rules with regard to the minimum shares of renewable energy in the transport sector Art. 27 REDII; Other provisions on renewable energy in the transport sector Art. 28 REDII; Promotion of the use of energy from biomass Art. 20(b)(8) of Governance Regulation; Specific rules for biofuels, bioliquids and biomass fuels produced from food and feed crops Art. 26 REDII

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2004		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry of Finance
- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Update since last submission

Amendments, implementation or design changes and extension of an on-going measure

Explanations of the update

100% BEV in new registrations of PC and LDV from 2035 onwards

Progress against policy objective

Austria is on track to meet the RED II goal. Electric-mobility is vastly supported by national funding schemes.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Hausberger, S./Schwingshackl, M. (2023): Monitoring Mechanism 2022 und Szenario WEM – Verkehr. Im Auftrag des BMK, Graz, 2023. Not published yet.(https://www.bmk.gv.at/themen/energie/publikationen/biokraftstoffbericht.html)

General Comments

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)		1360.0		1360.0
GHG emissions reductions for year 2035 (kt CO2-equivalent per year)		1130.0		1130.0
GHG emissions reductions for year 2040 (kt CO2-equivalent per year)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production | Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

7. Increase fuel efficiency in road transport

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

Mineral oil taxes and tolls for trucks have been implemented to improve the fuel efficiency of the fleet. The mineral oil tax together with the fuel consumption based car registration tax were expected to promote the sales of cars with lower fuel consumption. Other instruments like speed limits or Eco Driving initiative, established in response to other environmental concerns, contribute to reduced fuel consumption.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Decarbonisation: Renewable energy

Relevant objective, target or contribution the policy or measure contributes to

- (Decarbonisation: GHG emissions and removals)
- A contribution to the Union's binding target of at least 32% renewable energy in 2030 as referred to in Article 3 of Directive (EU) 2018/2001(Decarbonisation: Renewable energy)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)
- Methane (CH4)
- Nitrous oxide (N2O)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Transport

Objective(s)

- Efficiency improvements of vehicles
- Improved behaviour

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the transport sector.

Type of policy Instrument

- Education
- Fiscal
- Information

Describe the other policy Instrument

- Education
- Fiscal
- Information
-

Union policy which resulted in the implementation of the PaM

Related:

- Eurovignette Directive on road infrastructure charging 2011/76/EU
- Directive on the Promotion of Clean and Energy Efficient Road Transport Vehicles 2009/33/EC
- Other (Union policy not listed above or additional Union policy)

Other Union Policy:

- Taxation of heavy goods vehicles 2006/38/EC
- Framework for the taxation of energy products and electricity (2003/96/EC)

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Achieve the national contribution to the 2030 binding Union target for renewable energy as indicated in point (Art. 4(a)(2) of REDII), including sector- and technology-specific measures Art. 20(b)(1) of Governance Regulation; Calculation rules with regard to the minimum shares of renewable energy in the transport sector Art. 27 REDII; Other provisions on renewable energy in the transport sector Art. 28 REDII; Promotion of the use of energy from biomass Art. 20(b)(8) of Governance Regulation; Specific rules for biofuels, bioliquids and biomass fuels produced from food and feed crops Art. 26 REDII

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2004		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology
- Regional entities:Federal provinces
- National government:Ministry of Finance

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

not estimated

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- UMWELTBUNDESAMT (2023): GHG Projections and assessment of policies and measures in Austria 2023. Wien, 2023.(www.umweltbundesamt.at/emiberichte)

General Comments

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)		159.0		159.0
GHG emissions reductions for year 2035 (kt CO2-equivalent per year)		128.0		128.0
GHG emissions reductions for year 2040 (kt CO2-equivalent per year)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production | Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

8. Modal shift in passenger and fright transport to environmentally friendly transport modes

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The programme ‘klimaaktiv mobil’ for mobility management and awareness raising is an essential tool to promote environmentally friendly transport modes like public transport, cycling and walking. The cornerstones of ‘klimaaktiv mobil’ are the funding programme for businesses, communities and associations, target group-oriented counselling programmes, awareness-raising initiatives, partnerships, and training and certification initiatives. Nationwide and regional public transport tickets are established. The Federal Austrian Railway Framework Plan 2022 – 2027 is for both passenger and freight transport essential. With respect to freight transport, investment support for corporate feeder lines aims at shifting transport activities from road to rail. The Action Plan Danube until 2022 helps to maintain freight volumes on the Danube.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Transport

Objective(s)

- Modal shift to public transport or non-motorized transport

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the transport sector.

Type of policy Instrument

- Economic
- Information

Describe the other policy Instrument

- Economic
- Information
-

Union policy which resulted in the implementation of the PaM

Related:

- Eurovignette Directive on road infrastructure charging 2011/76/EU

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2005		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology
- National government:Ministry of Finance

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

Update since last submission

Amendments, implementation or design changes and extension of an on-going measure

Explanations of the update

Update of funding programme "klimaaktiv mobil", update of investments into rail infrastructure

Progress against policy objective

Klimaticket for nation-wide and regional public transport is implemented; construction of essential rail tunnels in Austria

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- UMWELTBUNDESAMT (2023): GHG Projections and assessment of policies and measures in Austria 2023. Wien, 2023.(www.umweltbundesamt.at/emiberichte)

General Comments

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)		926.0		926.0
GHG emissions reductions for year 2035 (kt CO2-equivalent per year)		675.0		675.0
GHG emissions reductions for year 2040 (kt CO2-equivalent per year)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

9. Climate Neutral New Buildings

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The full implementation of Directive 2010/31/EU sets the nearly zero-energy building standard for new buildings. High-efficiency alternative heating systems have to be considered, if available. Requirements on the renewable share support the installation of solar appliances. Federal bans on solid and liquid fossil fuel heating systems apply. In the case of subsidies from the Housing Support Scheme ('Wohnbauförderung') additional funding is granted, if stronger standards than the minimum criteria for energy efficiency of the building envelope and for the choice of heating systems are succeeded.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Energy efficiency
- Decarbonisation: Renewable energy

Relevant objective, target or contribution the policy or measure contributes to

- Member State's binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- Other national objectives, including long-term targets or strategies and sectoral targets, and national objectives in areas such as energy efficiency in the transport sector and with regard to heating and cooling(Energy efficiency)
- Other national trajectories and objectives, including those that are long-term or sectoral (e.g. share of renewable energy in district heating, renewable energy use in buildings, renewable energy produced by cities, renewable energy communities and renewables self-consumers, energy recovered from the sludge acquired through the treatment of wastewater)(Decarbonisation: Renewable energy)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO_2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Consumption

Objective(s)

- Efficiency improvements of buildings
- Efficiency improvement of appliances
- Efficiency improvement in services/ tertiary sector

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the buildings sector.

Type of policy Instrument

- Economic
- Regulatory
- Voluntary/negotiated agreements

Describe the other policy Instrument

- Economic
- Regulatory
- Voluntary/negotiated agreements
-

Union policy which resulted in the implementation of the PaM

Related:

- Directive 2006/32/EC on end-use energy efficiency and energy services
- Energy Efficiency Directive 2012/27/EU as amended by Directive 2018/2002
- Recast of the Energy Performance of Buildings Directive (Directive 2010/31/EU) and amended by the Directive 2018/844
- Eco-design framework Directive 2009/125/EC, 2008/28/EC and its implementing Regulations, combined with Labelling Regulation 2017/1369 repealing 2010/30/EC

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Eco-design Directive 2009/125/EC; Energy performance certificates; Nearly zero energy buildings Art. 9 EPBD; Other EPBD-related measures

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2006		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology
- Regional entities:Federal provinces

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

Useful heat per gross floor area of subsidied new build under the Housing Support Scheme (‘Wohnbauförderung’) (level as requested by building code) [kWh/(m².a)] ([kWh/(m².a)])

Year1	2010	Value1	49.0
Year2	2015	Value2	42.0
Year3	2020	Value3	36.0
Year4	2021	Value4	39.0

Update since last submission

Adoption of a new measure, conclusion of agreement, publication of legislation

Explanations of the update

Publication of legislation of the Oil Boiler Installation Prohibition Act (‘Ölkesseleinbauverbotsgesetz – ÖKEVG 2019’): The installation of liquid or solid fossil fuel boilers in newly constructed build-ings will not be permitted as of 2020. The formerly submitted PaM 'Increased energy efficiency of buildings' has been split apart into two PaMs for the 2023 submission.

Progress against policy objective

Efficiency of buildings and in services/tertiary sector (as far new commercial/institutional buildings are concerned) progress towards better energy performance of the building envelope. No progress report is available on efficiency improvement of appliances.

Progress against policy indicators

Indicator

Year

Value

Unit

- [kWh/(m².a)]

Reference to assessments and underpinning technical reports

- BMK – Bundesministerium für Klimaschutz, Umwelt, Energie, Mobilität, Innovation und Technologie (2022): Treibhausgasreduktions-Maßnahmen im Gebäudesektor. Österreichs 2009 bis 2021. Bericht des Bundes und der Länder nach Artikel 16 der Vereinbarung gemäß Artikel 15a B-VG über Maßnahmen im Gebäudesektor zum Zweck der Reduktion des Ausstoßes von Treibhausgasen (BGBl. II Nr. 213/2017).(https://www.bmk.gv.at/themen/energie/publikationen/treibhausgasreduktion-wohnbau.html)

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost	
Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit
Benefits in EUR per toe renewable energy production

Net Cost	
Net costs in EUR per toe renewable energy production	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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production	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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction	Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction	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)

Reference

Description of other benefits

10. Thermal Improvement of Building Stock

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The full implementation of Directive 2010/31/EU maintains a mandatory energy performance building standard for major renovation. In the case of subsidies from the Housing Support Scheme (‘Wohnbauförderung’) additional funding is granted, if stronger standards than the minimum criteria for energy efficiency of the building envelope are succeeded. Support for the thermal renovation of buildings is provided under several programmes: Domestic Environmental Support Scheme (‘Umweltförderung im Inland’), Austrian Climate and Energy Fund (‘Klima- und Energiefonds’), Building Renovation Initiative for Commercial/Institutional buildings (‘Sani-erungsoffensive für Betriebe’) and the Building Renovation Initiative for Resi-dential Buildings (‘Sanierungsoffensive für Private’).Furthermore, energy performance certificates have to be provided by sellers and landlords in the course of real estate transactions or renting.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Energy efficiency

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- The indicative milestones of the long-term strategy for the renovation of the national stock of residential and non-residential buildings(Energy efficiency)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Consumption

Objective(s)

- Efficiency improvements of buildings
- Efficiency improvement in services/ tertiary sector

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the buildings sector.

Type of policy Instrument

- Economic
- Information
- Regulatory
- Voluntary/negotiated agreements

Describe the other policy Instrument

- Economic
- Information
- Regulatory
- Voluntary/negotiated agreements
-

Union policy which resulted in the implementation of the PaM

Related:

- Energy Efficiency Directive 2012/27/EU as amended by Directive 2018/2002
- Recast of the Energy Performance of Buildings Directive (Directive 2010/31/EU) and amended by the Directive 2018/844

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Energy performance certificates; Long Term Renovation Strategy Art. 2a EPBD; Minimum energy performance requirements Art. 4 EPBD; Public sector renovations Art. 5 EED

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2006		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology
- Regional entities:Federal provinces

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

Useful heat per gross floor area of subsidied major renovation under the Housing Support Scheme (‘Wohnbauförderung’) (before renovation measure) [kWh/(m².a)] ([kWh/(m².a)])

Year1	2010	Value1	193.0
Year2	2015	Value2	174.0
Year3	2020	Value3	173.0

Year4	2021	Value4	169.0

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

The formerly submitted PaM 'Increased energy efficiency of buildings' has been split apart into two PaM for the 2023 submission.

Progress against policy objective

Efficiency of buildings and in services/tertiary sector (as far renovations of commercial/institutional buildings are concerned) progress towards better energy performance of the building envelope.

Progress against policy indicators

Indicator

Year

Value

Unit

- [kWh/(m².a)]

Reference to assessments and underpinning technical reports

- BMK – Bundesministerium für Klimaschutz, Umwelt, Energie, Mobilität, Innovation und Technologie (2022): Treibhausgasreduktions-Maßnahmen im Gebäudesektor. Österreichs 2009 bis 2021. Bericht des Bundes und der Länder nach Artikel 16 der Vereinbarung gemäß Artikel 15a B-VG über Maßnahmen im Gebäudesektor zum Zweck der Reduktion des Ausstoßes von Treibhausgasen (BGBl. II Nr. 213/2017).(https://www.bmk.gv.at/themen/energie/publikationen/treibhausgasreduktion-wohnbau.html)

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production	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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction	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)

Reference

Description of other benefits

11. Replacement of Fossil Fuels in Building Stock

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The full implementation of Directive 2010/31/EU maintains that for buildings undergoing replacement of heating systems (alongside or without thermal renovation of the building envelope) high-efficiency alternative systems have to be considered, if available. Requirements on the renewable share support the installation of solar appliances. In the case of subsidies from the Housing Support Scheme (‘Wohnbauförderung’) additional funding is granted, if stronger standards than the minimum criteria for the choice of heating systems are succeeded. The focus programme Stepping out of Oil and Gas (‘Raus aus Öl und Gas’) maintains higher subsidy rates until 2025 for the exchange of fossil fuel heating systems. This bonus phases out until 2040. Awareness raising measures at national level by the Austrian Climate Protection Initiative (‘klimaaktiv) and at regional level by federal provinces about the advantages of modern heating systems are expected to increase the boiler ex-change rate, especially for replacement of fossil fuels. The District Heating and Cooling Act aims at the construction of district cooling systems in order to reduce electricity demand, as well as at the expansion of district heating networks; subsidies are provided for that purpose.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Energy efficiency
- Decarbonisation: Renewable energy

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- Other national objectives, including long-term targets or strategies and sectoral targets, and national objectives in areas such as energy efficiency in the transport sector and with regard to heating and cooling(Energy efficiency)
- Other national trajectories and objectives, including those that are long-term or sectoral (e.g. share of renewable energy in district heating, renewable energy use in buildings, renewable energy produced by cities, renewable energy communities and renewables self-consumers, energy recovered from the sludge acquired through the treatment of wastewater)(Decarbonisation: Renewable energy)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Supply
- Energy Consumption

Objective(s)

- Increase in renewable energy in the heating and cooling sector
- Efficiency improvements of buildings
- Efficiency improvement of appliances
- Efficiency improvement in services/ tertiary sector

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the buildings sector.

Type of policy Instrument

- Economic
- Information
- Regulatory
- Voluntary/negotiated agreements

Describe the other policy Instrument

- Economic
- Information
- Regulatory
- Voluntary/negotiated agreements
-

Union policy which resulted in the implementation of the PaM

Related:

- Energy Efficiency Directive 2012/27/EU as amended by Directive 2018/2002
- Recast of the Energy Performance of Buildings Directive (Directive 2010/31/EU) and amended by the Directive 2018/844
- Eco-design framework Directive 2009/125/EC, 2008/28/EC and its implementing Regulations, combined with Labelling Regulation 2017/1369 repealing 2010/30/EC

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

District heating and cooling Art. 24 REDII; Eco-design Directive 2009/125/EC; Efficiency in heating and cooling (cogeneration, district heating and cooling) Art. 14 EED; Energy labelling Regulation 2017/1369; Other EPBD-related measures

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2006		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- Regional entities:Federal provinces
- National government:Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Gross floor area of subsidied building stock with exchange of heating systems under the Housing Support Scheme

('Wohnbauförderung') (thousands of m^2)

Year1	2010	Value1	5734.0
Year2	2015	Value2	2886.0
Year3	2020	Value3	3435.0
Year4	2021	Value4	4467.0

Update since last submission

Commencement/enforcement of a measure/programme

Explanations of the update

Addtional funding for exchange of fossil fuel heating systems by the Stepping out of Oil and Gas ('Raus aus Öl und Gas') focus programme of the Building Renovation Initiative for Residential Buildings ('Sanierungsoffensive für Private'). The age of the fossil heating system is no longer relevant to eligibility of funding (broadened scope). The formerly submitted PaM ' Increased share of renewable energy for space heating' has been renamed for the 2023 submission reflecting the focus on stepping up to exchange fossil fuel heating systems.

Progress against policy objective

Efficiency of buildings, in services/tertiary sector (as far heating systems of commercial/institutional buildings are concerned) and appliances progress towards better energy performance of the heating-related appliances and heating system. The increase in renewable energy supply progresses towards higher demand of high-efficient district heat in buildings.

Progress against policy indicators

Indicator

Year

Value

Unit

- thousands of m^2

Reference to assessments and underpinning technical reports

- BMK – Bundesministerium für Klimaschutz, Umwelt, Energie, Mobilität, Innovation und Technologie (2022): Treibhausgasreduktions-Maßnahmen im Gebäudesektor. Österreichs 2009 bis 2021. Bericht des Bundes und der Länder nach Artikel 16 der Vereinbarung gemäß Artikel 15a B-VG über Maßnahmen im Gebäudesektor zum Zweck der Reduktion des Ausstoßes von Treibhausgasen (BGBl. II Nr. 213/2017). BMK – Bundesministerium für Klimaschutz, Umwelt, Energie, Mobilität, Innovation und Technologie (2021): Umweltinvestitionen des Bundes – Klima- und Umweltschutzmaßnahmen 2021. Wien, 2022.(https://www.bmk.gv.at/themen/energie/publikationen/treibhausgasreduktion-wohnbau.html)

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production	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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production	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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction	Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction	Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction	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)

Reference

Description of other benefits

12. Energy Efficiency Measures in Buildings

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The national Eco-design Ordinance (‘Ökodesign-Verordnung 2007 – ODV 2007) set the legal basis for minimum standards for energy-related products. These ecodesign requirements are defined by several Commission Regulations (EU), such as for space heaters and combination heaters, water heaters and hot water storage tanks, solid fuel local space heaters, local space heaters and for solid fuel boilers. Energy labelling of space and water heating products and of other energy-using products helps consumers to compare products in terms of their energy consumption. The use of white goods of high-efficiency in exchange for old household appliances is promoted. Energy efficiency measures in buildings provided by the federal provinces include hydraulic balancing of the heat distribution, the optimization of technical building appliances, energy consulting and elaboration of renovation concepts. This PaM is reflected by assuming higher overall efficiency of new heating systems and to some extent lower CH4-emissions of new combustion technologies (if applicable ecodesign requirements are more stringent than national policy).

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals
- Energy efficiency

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)
- The indicative national energy efficiency contribution to achieving the Union's energy efficiency targets of at least 32,5 % in 2030 as referred to in Article 1(1) and Article 3(5) of Directive 2012/27/EU(Energy efficiency)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)
- Methane (CH4)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Energy Consumption

Objective(s)

- Efficiency improvements of buildings
- Efficiency improvement of appliances
- Efficiency improvement in services/ tertiary sector

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the buildings sector.

Type of policy Instrument

- Information
- Regulatory

Describe the other policy Instrument

- Information
- Regulatory
-

Union policy which resulted in the implementation of the PaM

Related:

- Energy Efficiency Directive 2012/27/EU as amended by Directive 2018/2002
- Recast of the Energy Performance of Buildings Directive (Directive 2010/31/EU) and amended by the Directive 2018/844
- Eco-design framework Directive 2009/125/EC, 2008/28/EC and its implementing Regulations, combined with Labelling Regulation 2017/1369 repealing 2010/30/EC

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Consumer information, empowering programme, information and training Art. 12 and 17 EED; Eco-design Directive 2009/125/EC; Energy labelling Regulation 2017/1369; Energy performance certificates; Exemplary role and purchasing by public bodies Art. 5 and 6 EED; Other measures to promote energy efficiency Art. 19 EED

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2007		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology
- Regional entities:Federal provinces

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

The formerly submitted PaM 'Increased energy efficiency in residential electricity demand' has been renamed for the 2023 submission reflecting the focus on energy efficient heating systems and other energy efficiency measures in buildings.

Progress against policy objective

Efficiency of buildings, in services/tertiary sector (as far energy efficiency measures for commercial/institutional buildings are concerned) and appliances progress towards better energy performance of the heating-related appliances and heating system (as implied by multiple energy consulting services provided and/or supported by the federal provinces). No progress report is available on efficiency improvement of appliances, as there is no known information on the impact of energy labelling on the Austrian consumer's decision making.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Umweltbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023()

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)
Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production | Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

13. Decrease emissions from F-gases and other poduct use

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The aim of this measure is to achieve a decrease in emissions from F-gases and other product use mainly through the implementation of the EU FC Regulation 517/2014, which foresees limitations and bans of FC use as well as a quota system for the production and import of F-gases on EU level; implementation of EU MAC directive 2006/40/EC, limiting HFC use for passenger cars and light duty vehicles; For indirect CO2 emissions, implementation of the EU VOC solvents emissions directive 1999/13/EC.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Member State's binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)
- Hydrofluorocarbons (HFC)
- Nitrogen trifluoride (NF3)
- Perfluorocarbons (PFC)
- Sulphur hexafluoride (SF6)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Industrial Processes

Objective(s)

- Installation of abatement technologies
- Improved control of fugitive emissions from industrial processes
- Replacement of fluorinated gases by other substances

Other Objective(s)

Quantified Objective

National bans on the use of SF6, HFCs and PFCs from most appliances

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the industrial processes and product use sector.

Type of policy Instrument

- Regulatory

Describe the other 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
- Industrial emissions Directive 2010/75/EU (Recast of IPPC Directive 2008/1/EC and Large Combustion Plant Directive 2001/80/EC) and its associated Best Available Technique Reference Documents

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2014		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Sustainability and Tourism
- Ministry for Digital and Economic Affairs

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

Emissions peaked in 2018 and have been decreasing since then due to the effects of the implemented EU regulations, in particular EU Regulation No 517/2014 on fluorinated greenhouse gases

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Umweltbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023()

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

14. Implementation of EU agricultural policies

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

Agricultural policy according to CAP (Common Agricultural Policy) - Strategic Plan as implemented in 2023. This includes the Austrian agri-environmental programme and the subsidies for climate relevant investments. The implementation of this policy includes for example improvements in feeding, the covering of manure storages, low-loss application of manure and biogas slurry, promotion of organic farming, promotion of grazing, reduced usage of mineral fertilisers.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Methane (CH4)
- Nitrous oxide (N2O)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Agriculture
- Land use, land use change and forestry

Objective(s)

- Reduction of fertilizer/manure use on cropland
- Other activities improving cropland management
- Improved animal waste management systems
- Activities improving grazing land or grassland management
- Other LULUCF

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the agriculture sector.

Type of policy Instrument

- Economic
- Regulatory

Describe the other policy Instrument

- Economic
- Regulatory
-

Union policy which resulted in the implementation of the PaM

Related:

- Common Agricultural Policy, and its delegated and implementing acts
- Nitrate Directive 1991/676/EEC

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2023	2027	

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Federal Ministry for Agriculture, Forestry, Regions and Water Management
- Regional entities:Federal provinces

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

Update since last submission

Commencement/enforcement of a measure/programme

Explanations of the update

The CAP -Strategic Plan for Austira 2023-2027 includes climate related interventions and starts in the year 2023

Progress against policy objective

Improved agricultural practices, e.g. in the area of feeding or manure application, lead to better nitrogen efficiency with positive effects on greenhouse gas emissions.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Umweltbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023()

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

15. Sustainable Forest Management

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

The overall principles of forest management in Austria are stipulated in the Forest Act and include a wide-range of forest related measures: Guiding Principles of Forest Management, General ban on forest clearance/Deforestation, General ban on Forest Destruction, Immediate Re/Afforestation after felling, Forest Litter removal, Forest Protection (from Fires and Pests), Provisions on Harvest haulage & Forest Roads, Sustainable Use of Forests, Austrian Forest Dialogue, Forest Cooperatives, Task Force Renewable Energy, Protection of Wetlands

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s commitments pursuant to Regulation (EU) 2018/841(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Carbon dioxide (CO2)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Land use, land use change and forestry

Objective(s)

- Enhanced forest management

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS target of net zero GHG emissions in 2050.

Type of policy Instrument

- Regulatory

Describe the other policy Instrument

- Regulatory
-

Union policy which resulted in the implementation of the PaM

Related:

- Common Agricultural Policy, and its delegated and implementing acts
- LULUCF Decision No 529/2013/EU

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	1975		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry of Agriculture, Forestry, Environment and Water Management
- Regional entities:Federal provinces

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

Progress against policy objective

A LULUCF-specific quantification cannot be given for the PAMs listed above due to a lack of data and because of overlapping activities.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Umweltbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023()

General Comments

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

- LULUCF

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction	Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

16. Reduce emissions from landfill sites

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

To reduce the carbon content of waste prior to landfilling, source separation of biowaste as well as pre-treatment of mixed municipal waste (incineration, mechanical-biological treatment) became obligatory in Austria. Furthermore, emissions from mass landfills are limited by the collection and use of landfill gas as required by the Landfill Ordinance 2008, focusing on (1) managing the water balance and the aerobic in-situ stabilisation of closed landfills and (2) increasing efforts to collect landfill gas (e.g. through detection of leakages, examination of gas collection systems).

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Member State's binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Methane (CH4)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Waste management/waste

Objective(s)

- Improved treatment technologies
- Improved landfill management

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS targets of net zero GHG emissions in 2050 and decarbonisation of the waste sector.

Type of policy Instrument

- Regulatory

Describe the other policy Instrument

- Regulatory
-

Union policy which resulted in the implementation of the PaM

Related:

- Waste Management Framework Directive 2008/98/EC, amended by Directive 2018/851
- Landfill Directive 1999/31/EC, amended by Directive 2018/850

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2008		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology
- Regional entities:Federal provinces

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

split up of PaM N°27: Reduce emissions from waste treatment - now PAM N°16 focus on landfill sites & separate collection biogenic waste to reduce organic carbon deposited

Progress against policy objective

Surveys of gas collection systems conducted in 2014 and 2019 showed that the measure described can lead to higher amounts of landfill gas collected at least at some landfills.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Umweltbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023(https://www.umweltbundesamt.at/emiberichte)

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

17. Strengthen waste prevention & increase recycling

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

Waste prevention is one crucial instrument to reduce future emissions. To achieve this, projects, awareness raising campaigns and networks have been established to minimise food waste and to promote the re-use of waste. Moreover, the EU Single-Use Plastics (SUP) Directive as well as the EU Packaging and Packaging Waste Directive aim to reduce the amounts of plastic packaging waste and sets measures to increase recycling. In addition, the EU Waste Framework Directive sets targets to recycle total municipal waste. In Austria a ban on the marketing of plastic carrier bags to reduce waste volumes has already been imposed.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Member State’s binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Methane (CH4)
- Nitrous oxide (N2O)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Waste management/waste

Objective(s)

- Enhanced recycling

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS target[s] of net zero GHG emissions in 2050 and decarbonisation of the waste sector.

Type of policy Instrument

- Information
- Regulatory

Describe the other policy Instrument

- Information
- Regulatory
-

Union policy which resulted in the implementation of the PaM

Related:

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

Other Union Policy:

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2008		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- National government:Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

split up of PaM N°27: Reduce emissions from waste treatment - now PAM N°17 focus on waste prevention and recycling.

Progress against policy objective

A quantification on the effects of these waste prevention measures cannot be made.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- Umweltbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023(https://www.umweltbundesamt.at/emiberichte)

General Comments

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)				

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 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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits

18. Reduce emissions from biological treatment by implementing best available techniques BAT) in the waste treatment process

PaM number in NECP:

Table 1: Key characteristics and progress towards implementing policies and measures

Is this a single PaM or a group of PaMs?

Single

Which policies or measures does it cover?

Short description

Emissions from the aerobic treatment of biogenic waste can be limited by a comprehensive implementation of the requirements stipulated in the "State of the Art of Composting". The EU report on the best available techniques (BREF Waste Treatment – JRC 2018) provides guidance to prevent emissions from aerobic and anaerobic treatment processes for industrial installations. Related legally binding requirements to be transposed into the permits of the installations are published by EU Implementing Decision 2018/1147.

Relevant Union dimension(s) affected

- Decarbonisation: GHG emissions and removals

Relevant objective, target or contribution the policy or measure contributes to

- Member State's binding national target for greenhouse gas emissions and the annual binding national limits pursuant to Regulation (EU) 2018/842(Decarbonisation: GHG emissions and removals)

Vector(s) affected

-

Supported Energy Union R&I priority(ies)

-

Supported Clean energy / low carbon technologies

-

Sectors supported

-

GHG(s) affected

- Methane (CH4)

Projections scenario in which the PaM is included

- With existing measures

Geographical coverage

National

Sector(s) affected

- Waste management/waste

Objective(s)

- Improved treatment technologies

Other Objective(s)

Quantified Objective

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

The implementation of the PaM is a basis for further measures to achieve the LTS target[s] of net zero GHG emissions in 2050 and decarbonisation of the waste sector.

Type of policy Instrument

- Regulatory

Describe the other policy Instrument

- 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:

- EU Implementing Decision establishing BAT conclusions for waste treatment (2018/1147)

Relevant Provision(s) - only for dimensions Decarbonisation: Renewable energy and Energy efficiency

Other Relevant Provision

Status of Implementation

Status of implementation	Start	Finish	Comment on Implementation Period
Implemented	2009		

Projections scenario in which the PaM is included

Entities responsible for implementing the policy

- Regional entities:Federal provinces

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

Update since last submission

Continuation of existing measures/no significant updates

Explanations of the update

split up of PaM N°27: Reduce emissions from waste treatment - now PAM N°18 focus on reduction of emissions from biological treatment.

Progress against policy objective

A separate quantification cannot be made.

Progress against policy indicators

Indicator

Year

Value

Unit

Reference to assessments and underpinning technical reports

- tbundesamt (2023): GHG Projections and assessment of policies and measures in Austria, Reporting under Regulation (EU) 2018/1999, Draft, Vienna 15 March 2023(https://www.umweltbundesamt.at/emiberichte)

General Comments

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)				

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

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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

Table 4:Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on renewable energy production

Ex-ante assessment

	RE 2025	RE 2030	RE 2035	RE 2040
Renewable energy production (ktoe/year)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Renewable energy production (ktoe/year)

Year for which production applies

Renewable energy production (ktoe/year)

Explanation of the basis for the estimate

Reference

Table 5: Available projected and realised costs and benefits of individual or groups of policies and measures on renewable energy production

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Net Cost

Net costs in EUR per toe renewable energy production

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)

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe renewable energy production

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe renewable energy production

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe renewable energy production | 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)

Reference

Description of other benefits

Table 6: Available results of ex-ante and ex-post assessments of the effects of individual or groups of policies and measures on energy efficiency

Ex-ante assessment

	ER 2025	ER 2030	ER 2035	ER 2040
Energy reductions (ktoe/year, final energy)				

Explanation of the basis for the estimate

Reference

Ex-post assessment

Energy reductions

Year for which production applies

Energy reductions (ktoe/year, final energy)

Explanation of the basis for the estimate

Reference

Table 7: Available projected and realised costs and benefits of individual or groups of policies and measures on energy efficiency

Projected costs and benefits (ex-ante assessment)

Year(s) for which cost has been calculated

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Net Cost

Net costs in EUR per toe final energy reduction

Absolute net cost per year in EUR

Price reference year

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

Reference

Description of other benefits

Realised costs and benefits (ex-post assessment)

Year(s) for which cost has been calculated

Price reference year

Cost

Gross cost in EUR per toe final energy reduction

Absolute gross costs per year in EUR

Benefit

Benefits in EUR per toe final energy reduction

Absolute benefit per year in EUR

Net Cost

Net costs in EUR per toe final energy reduction

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)

Reference

Description of other benefits