TAXONOMY REPORTING TEMPLATE

A guide to EU Taxonomy reporting for shipping companies











Introduction

Aim of the document and the annex

This document aims to support shipowners with the mandatory reporting requirements that result from the EU Taxonomy regulation and specifically the article 8.

This is the first version of a reporting template, it is expected that the taxonomy and the best practices on how to report will further develop in the coming years. it is therefore expected that more versions of this document will follow in the coming years.

Process

The development of the flow chart and the template is a result of collaboration between the Swedish, Norwegian, Belgian, Danish, Finnish, and Dutch Shipowners Associations.

Content

Figure 1 on the next page displays a flow chart of the reporting process for shipowners. The process can be divided into three separate parts: 1. Taxonomy Scope, 2. Taxonomy Eligibility and 3. Taxonomy Alignment. This reporting template contains a detailed explanation on how to go through these different parts of the taxonomy reporting process. Annex I contains a list of links to Taxonomy reports from European shipowners and an example reporting structure. Annex II til IV contain more taxonomy criteria and Annex V contains a link to more detailed reporting guidelines from the EU.

Taxonomy compass

An easy way to find the criteria of the EU taxonomy, besides this document, is via the <u>EU Taxonomy</u> <u>Compass</u>. This website contains all the economic activities and the related criteria that fall within the scope of the EU Taxonomy.

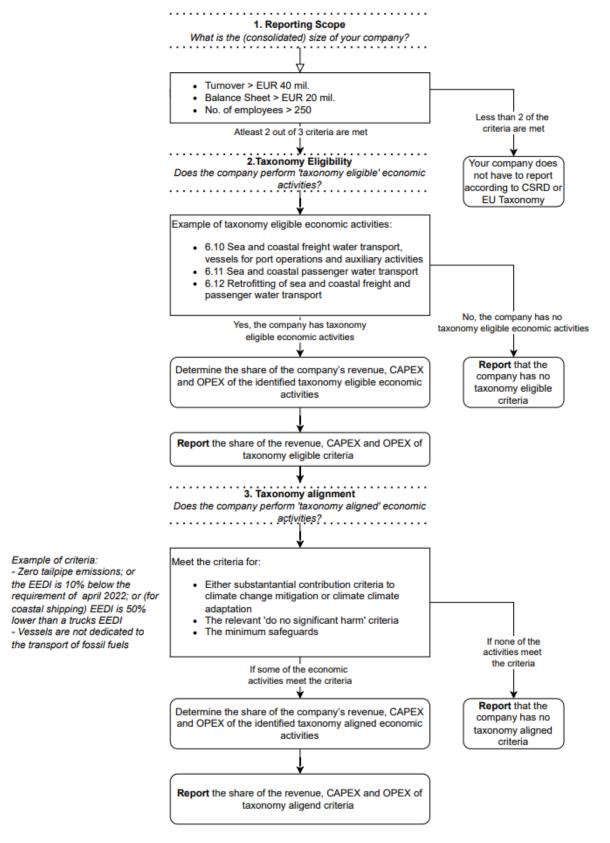


Figure 1: Flow chart of reporting on the Taxonomy for shipowners

1. REPORTING SCOPE

Determine if the company is required to report.

From 2023 onwards, a company will need to report if they fall within the CSRD scope. The CSRD scope is as follows:

If two of the following three criteria apply, a company must report:

- 1. turnover is more than EUR 40 million,
- 2. balance sheet more than EUR 20 million,
- 3. the company has more than 250 employees.

Or, all publicly listed small- and medium-sized companies, except for listed micro-enterprises, as of Jan. 1, 2026; and

All small- and medium-sized companies, non-listed, who choose to use the standards on a voluntary basis.

Reporting should be done on a consolidated basis:

"Undertakings that have to prepare a nonfinancial statement in accordance with Chapter 6 of the Article 19a of the Accounting Directive (2013/34/EU), or where applicable, a consolidated non-financial statement according to Article 29a of that Directive, should comply with the disclosure requirements of Article 8 of the Taxonomy Regulation. In the case of the latter, the information should be disclosed on a consolidated basis." ¹

¹ How should financial and non-financial undertakings report Taxonomy-eligible economic activities and assets in accordance with the Taxonomy Regulation Article 8 Disclosures Delegated Act? (europa.eu)

2. TAXONOMY ELIGIBILITY

Determine and report the percentage of taxonomy eligible economic activities

a) Determine which economic activities of the company fall within the scope of the taxonomy. The taxonomy has its own definition of economic activities. Table 1 shows a list of three economic activities that would likely fit a shipowner.

Table 1: List of ship related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

6.10 Sea and coastal freight water transport, vessels for port operations and auxiliary activities

Purchase, financing, chartering (with or without crew) and operation of vessels designed and equipped for transport of freight or for the combined transport of freight and passengers on sea or coastal waters, whether scheduled or not. Purchase, financing, renting and operation of vessels required for port operations and auxiliary activities, such as tugboats, mooring vessels, pilot vessels, salvage vessels and ice-breakers. The economic activities in this category could be associated with several NACE codes, in particular H50.2, H52.22 and N77.34 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

• 6.11 Sea and coastal passenger water transport

Purchase, financing, chartering (with or without crew) and operation of vessels designed and equipped for performing passenger transport, on sea or coastal waters, whether scheduled or not. The economic activities in this category include operation of ferries, water taxies and excursions, cruise or sightseeing boats. The activity could be associated with several NACE codes, in particular H50.10, N77.21 and N77.34 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

• 6.12 Retrofitting of sea and coastal freight and passenger water transport

Retrofit and upgrade of vessels designed and equipped for the transport of freight or passengers on sea or coastal waters, and of vessels required for port operations and auxiliary activities, such as tugboats, mooring vessels, pilot vessels, salvage vessels and ice-breakers.

The economic activities in this category could be associated with NACE codes H50.10, H50.2, H52.22, C33.15, N77.21 and N.77.34 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

Other economic transport activities that might be relevant to a shipowner are e.g. "terminal operations (section 6.16) and "freight transport by road" (section 6.6) and "freight rail transport" (section 6.2). A description of these activities can be found in table 2.

Table 2: List of infrastructure, rail and road related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

• 6.16 Infrastructure enabling low carbon water transport

Construction, modernisation, operation and maintenance of infrastructure that is required for zero tailpipe CO2 operation of vessels or the port's own operations, as well as infrastructure dedicated to transshipment. The economic activities in this category could be associated with several NACE codes, in particular F42.91, F71.1 or F71.20 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

• 6.6 Freight transport services by road

Purchase, financing, leasing, rental and operation of vehicles designated as category N1, N2 (480) or N3 (481) falling under the scope of EURO VI (482), step E or its successor for freight transport services by road. The economic activities in this category could be associated with several NACE codes, in particular H49.4.1, H53.10, H53.20 and N77.12 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

• 6.2 Freight rail transport

Purchase, financing, leasing, rental and operation of freight transport on mainline rail networks as well as short line freight railroads.

The economic activities in this category could be associated with several NACE codes, in particular H49.20 and N77.39 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

Other economic energy activities that might be relevant to a shipowner are e.g. "Electricity generation from wind power" (section 4.3) and "Electricity generation from ocean energy technologies" (section 4.4). A description of these activities can be found in table 3.

Table 3: List of offshore energy related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

• 4.3 Electricity generation from wind power

Construction or operation of electricity generation facilities that produce electricity from wind power. Where an economic activity is an integral element of the 'Installation, maintenance and repair of renewable energy technologies' as referred to in Section 7.6 of this Annex, the technical screening criteria specified in Section 7.6 apply.

The economic activities in this category could be associated with several NACE codes, in particular D35.11 and F42.22 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

• 4.4 Electricity generation from ocean energy technologies

Construction or operation of electricity generation facilities that produce electricity from ocean energy.

The economic activities in this category could be associated with several NACE codes, in particular D35.11 and F42.22 in accordance with the statistical classification of economic activities established by Regulation (EC) No 1893/2006.

- b) Determine the share of the company's revenue, CAPEX and OPEX of the identified taxonomy eligible economic activities. Note that some activities of a company can be placed under multiple economic activities in the taxonomy, in that case a company can choose under which economic activity they want to report. For more detailed information on how to assess the revenue, CAPEX and OPEX, please see Annex I of Commission Delegated Regulation (EU) 2021/2178 (Publications Office (europa.eu))
- c) Report the share of the revenue, CAPEX and OPEX that is taxonomy eligible in the company's annual report. Table 4 provides an example of what a company should report as a minimum. Companies are of course allowed to share more in their taxonomy report, such as a breakdown per economic activity. Examples of more extensive reporting can be found in the Annex III. For more detailed information on how to assess the revenue, CAPEX and OPEX, please see Annex II of Commission Delegated Regulation (EU) 2021/2178 (<u>Publications Office (europa.eu)</u>)

Table 4: the minimum reporting requirement for taxonomy eligibility

The percentage of taxonomy-eligible			
activities as share of			
Revenue x%			
CAPEX	y%		
OPEX	Z%		

3. TAXONOMY ALLIGNMENT

transport of fossil fuels.

Determine and report the percentage of taxonomy aligned economic activities

a) Determine if the taxonomy eligible economic activities meet the substantial contribution criteria to either climate mitigation or climate adaptation.

The substantial contribution criteria for each economic activity can be found in the first delegated act on sustainable activities for climate change adaptation and mitigation objectives (<u>first delegated act</u>), which was published in the Official Journal on 9 December 2021. The substantial contribution criteria to climate change mitigation for the three shipping economic activities can be found in table 5. The substantial contribution criteria for climate adaptation for shipping related economic activities can be found in Annex II. The substantial contribution criteria for infrastructure, road, rail and offshore energy related economic activities can be found in Annex III.

Note that the criteria are designed to assess ships, so they must be assessed on a ship-by-ship basis. Each ship is thus a separate economic activity that may or may not meet the criteria. Reporting should however be done on a consolidated basis.

Table 5: Substantial contribution criteria for Climate Mitigation for shipping related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

6.10 Sea and coastal freight water	6.11 Sea and coastal passenger	6.12 Retrofitting of sea and coastal freight and
transport, vessels for port	water transport	passenger water transport
operations and auxiliary activities		
1. Confirm with either a, b, c or d.		1. Until 31 December 2025, the retrofitting
(a) the vessels have zero direct (tailp	ipe) CO2 emissions;	activity reduces fuel consumption of the vessel
	by at least 10 % expressed in grams of fuel per	
		deadweight tons per nautical mile, as
		demonstrated by computational fluid dynamics
		(CFD), tank tests or similar engineering
		calculations
(b) until 31 December 2025, hybrid a		2. Vessels are not dedicated to the transport of
25 % of their energy from zero direct		fossil fuels.
plug-in power for their normal opera	, ,	
(c) where technologically and econo		
the criterion in point (a), until 31 Dec	, ,	
be proved that the vessels are used		
short sea services designed to enable	,	
transported by land to sea, the vesse	` ' ' ' '	
emissions, calculated using the Inter	<u> </u>	
(IMO) Energy Efficiency Design Index	• •	
average reference CO2 emissions va		
(vehicle sub group 5- LH) in accordar	nce with Article 11 of Regulation	
2019/1242;		
(d) where technologically and econo		
the criterion in point (a), until 31 Dec	•	
attained Energy Efficiency Design Inc		
1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	022, if the vessels are able to run on	
zero direct (tailpipe) emission fuels o	or on tuels from renewable sources.	
2. Vessels are not dedicated to the		

If the economic activity in question meets either or both of the substantial contribution, the next step is to determine if the activity meets the 'Do No Significant Harm' criteria (see point b below). If the economic activity does not meet any substantial contribution criteria the economic activity is not taxonomy aligned, which needs to be reported (point d below).

b) For the taxonomy eligible economic activities that meet the substantial contribution criteria to at least one of the first two environmental objectives (climate change mitigation and adaptation), determine if the economic activities meet the 'Do No Significant Harm' criteria to all the other environmental objectives. The 'Do No Significant Harm' criteria for each economic activity can be found in the first delegated act (<u>first delegated act</u>) on sustainable activities for climate change adaptation and mitigation objectives, which was published in the Official Journal on 9 December 2021. The 'Do No significant Harm' criteria for the three economic activities that would likely fit a shipowner can be found in table 6. The 'Do No Significant Harm' criteria for infrastructure, road, rail and offshore energy related economic activities can be found in Annex IV.

Table 6: Do No Significant Harm Criteria for shipping related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives.

	6.10 Sea and coastal freight water	6.11 Sea and coastal	6.12 Retrofitting of sea and coastal		
	transport, vessels for port operations and	passenger water	freight and passenger water		
	auxiliary activities	transport	transport		
Climate	The vessels are not dedicated to the	N/A	The vessels are not dedicated		
Mitigation	transport of fossil fuels.	,	to the transport of fossil fuels.		
Climate	The activity complies with the criteria	set out in Appendix A to t			
Adaptation	that are material to the activity have b	• • • • • • • • • • • • • • • • • • • •			
	Appendix by performing a robust clima				
The	The activity complies with the criteria set or				
sustainable	risks related to preserving water quality and				
use and	are identified and addressed with the aim o	-	atus and good ecological		
protection of	potential as defined in Article 2, points (22)	0.0	0		
water and	accordance with Directive 2000/60/EC670				
marine	developed thereunder for the potentially at				
resources	relevant stakeholders. Where an Environme				
	Directive 2011/92/EU and includes an asses				
	2000/60/EC, no additional assessment of in				
	been addressed.				
The transition	Measures are in place to manage waste, bo	th in the use phase and ir	the end-of-life of the vessel, in		
to a circular	accordance with the waste hierarchy. For b	•			
economy	recycling of batteries and electronics, include				
	gross tonnage and the new-built ones repla	cing them, the activity co	mplies with the requirements of		
	Regulation (EU) No 1257/2013 of the Europ	ean Parliament and of the	e Council249 relating to the inventory		
	of hazardous materials. The scrap ships are	recycled in facilities inclu-	ded on the European List of ship		
	recycling facilities as laid down in Commissi	on Decision 2016/2323. T	he activity complies with Directive		
	(EU) 2019/883 of the European Parliament	and of the Council as rega	ards the protection of the marine		
	environment against the negative effects fr	om discharges of waste fr	om ships. The ship is operated in		
	accordance with Annex V to the Internation	al Convention for the Pre	vention of Pollution from Ships of 2		
	November 1973 (the IMO MARPOL Conven	tion), in particular with a	view to producing reduced quantities		
	of waste and to reducing legal discharges, b	y managing its waste in a	sustainable and environmentally		
	sound manner.				
Pollution	As regards the reduction of sulphur oxides of	emissions and particulate	matters, vessels comply with		
prevention	Directive (EU) 2016/802 of the European Pa	rliament and of the Coun	cil252, and with Regulation 14253 of		
and control	Annex VI to the IMO MARPOL Convention.	Sulphur in fuel content do	es not exceed 0,5 % in mass (the		
	global sulphur limit) and 0,1 % in mass in er	nission control area (ECA)	designated in the North and Baltic		
	Seas by the IMO254 . As regards nitrogen o	xides (NOx) emissions, ve	ssels comply with Regulation 13255 of		
	Annex VI to IMO MARPOL Convention. Tier II NOx requirement applies to ships constructed after 2011.				
	Only while operating in NOx emission control areas established under IMO rules, ships constructed after 1				
	January 2016 comply with stricter engine re	•	•		
	of black and grey water comply with Annex		·		
	minimise toxicity of anti-fouling paint and biocides as laid down in Regulation (EU) No 528/2012, which				
	mplements in Union law the International Convention on the Control of Harmful Anti-fouling Systems on				
	Ships adopted on 5 October 2001				

The protection and restoration of biodiversity and ecosystems

Releases of ballast water containing non-indigenous species are prevented in line with the International Convention for the Control and Management of Ships' Ballast Water and Sediments (BWM). Measures are in place to prevent the introduction of non-indigenous species by biofouling of hull and niche areas of ships taking into account the IMO Biofouling Guidelines258. Noise and vibrations are limited by using noise reducing propellers, hull design or on-board machinery in line with the guidance given in the IMO Guidelines for the Reduction of Underwater Noise259. In the Union, the activity does not hamper the achievement of good environmental status, as set out in Directive 2008/56/EC, requiring that the appropriate measures are taken to prevent or mitigate impacts in relation to that Directive's Descriptors 1 (biodiversity), 2 (nonindigenous species), 6 (seabed integrity), 8 (contaminants), 10 (marine litter), 11 (Noise/Energy) and as set out in Commission Decision (EU) 2017/848 in relation to the relevant criteria and methodological standards for those descriptors, as applicable.

- c) Determine if the taxonomy eligible economic activities, that meet the substantial contribution criteria to at least one of the first two environmental objectives (climate change mitigation and adaptation) and meet all the 'Do No Significant Harm' criteria to all the other environmental objectives, meet the minimum safeguards. The minimum safeguards are listed below.
- 1. The minimum safeguards referred to in point (c) of Article 3 shall be procedures implemented by an undertaking that is carrying out an economic activity to ensure the alignment with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights, including the principles and rights set out in the eight fundamental conventions identified in the Declaration of the International Labour Organisation on Fundamental Principles and Rights at Work and the International Bill of Human Rights.
 - d) Report the share of the revenue, CAPEX and OPEX that is taxonomy aligned. Table 7 provides an example of what a company should report as a minimum. Examples of more extensive reporting can be found in the Annex I. For more detailed information on how to assess the revenue, CAPEX and OPEX, please see Annex II of Commission Delegated Regulation (EU) 2021/2178 (Publications Office (europa.eu))

Table 7: the minimum reporting requirement for taxonomy alignment

The percentage of taxonomy-aligned activities as share of			
Revenue x%			
CAPEX	y%		
OPEX	Z%		

Annex I: Reporting Examples

List with links to taxonomy reports from European Shipowners

TAXONOMY ELIGIBLE

- A.P. Møller Mærsk Annual Sustainability Report Including Taxonomy
- Odfjell Taxonomy Report
- Fugro Annual Report Including Taxonomy Report
- DFDS Taxonomy report

Economic

Table 8: example of a reporting template that includes a distribution over the different economic activities of a company.

% that is

TAXONOMY ALIGNED

activities:	% of the company's revenue, CAPEX and OPEX		aligned with the EU Taxonomy	% of the orevenue, OPEX			
	Turnover	CAPEX	OPEX	% of	Turnove	CAPEX	OPEX
				activities	r		
6:10 Sea and coastal water freight transport	60%	50%	60%	90%	54%	45%	54%
6:11 Sea and coastal passenger water transport	30%	20%	30%	50%	15%	10%	15%
6:15 Infrastructure enabling low carbon water transport	10%	20%	10%	20%	2%	4%	2%
Consolidated	90%	90%	90%		71%	59%	71%

Annex II: Substantial contribution criteria for climate adaptation for shipping related economic activities

Table 9: Substantial contribution criteria for Climate **Adaptation** for **shipping** related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

6.10 Sea and coastal freight water transport, vessels for port	6.11 Sea and coastal passenger water transport	6.12 Retrofitting of sea and coastal freight and passenger
operations and auxiliary activities		water transport
1 The economic activity has implemented physical and non-physical solut	ions ('adaptation solutions') that substantially reduce t	he most important physical climate risks that are material to

- 1. The economic activity has implemented physical and non-physical solutions ('adaptation solutions') that substantially reduce the most important physical climate risks that are material to that activity.
- 2. The physical climate risks that are material to the activity have been identified from those listed in Appendix A to this Annex by performing a robust climate risk and vulnerability assessment with the following steps:
- (a) screening of the activity to identify which physical climate risks from the list in Appendix A to this Annex may affect the performance of the economic activity during its expected lifetime;
- (b) where the activity is assessed to be at risk from one or more of the physical climate risks listed in Appendix A to this Annex, a climate risk and vulnerability assessment to assess the materiality of the physical climate risks on the economic activity;
- (c) an assessment of adaptation solutions that can reduce the identified physical climate risk.
- The climate risk and vulnerability assessment is proportionate to the scale of the activity and its expected lifespan, such that:
- (a) for activities with an expected lifespan of less than 10 years, the assessment is performed, at least by using climate projections at the smallest appropriate scale;
- (b) for all other activities, the assessment is performed using the highest available resolution, state-of-the-art climate projections across the existing range of future scenarios506 consistent with the expected lifetime of the activity, including, at least, 10 to 30 year climate projections scenarios for major investments.
- 3. The climate projections and assessment of impacts are based on best practice and available guidance and take into account the state-of-the-art science for vulnerability and risk analysis and related methodologies in line with the most recent Intergovernmental Panel on Climate Change reports507, scientific peer-reviewed publications and open source508 or paying models.
- 4. The adaptation solutions implemented:
- (a) do not adversely affect the adaptation efforts or the level of resilience to physical climate risks of other people, of nature, of cultural heritage, of assets and of other economic activities:
- (b) favour nature-based solutions or rely on blue or green infrastructure to the extent possible; are consistent with local, sectoral, regional or national adaptation plans and strategies;
- (c) are consistent with local, sectoral, regional or national adaptation plans and strategies;
- (d) are monitored and measured against pre-defined indicators and remedial action is
- considered where those indicators are not met;
- (e) where the solution implemented is physical and consists in an activity for which technical screening criteria have been specified in this Annex, the solution complies with the do no significant harm technical screening criteria for that activity.

Annex III: Substantial contribution criteria for climate mitigation and adaptation criteria for Infrastructure, road, rail and energy related economic activities

Table 10: Substantial contribution criteria for **Climate Mitigation for Offshore Energy** related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives.

4.3 Electricity generation from wind power	4.4 Electricity generation from ocean energy technologies
The activity generates electricity from wind power.	The activity generates electricity from ocean energy.

Table 10: Substantial contribution criteria for **Climate Mitigation for infrastructure, road and rail** related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

6.16 Infrastructure enabling low carbon water transport	6.6 Freight transport services by road	6.2 Freight rail transport
1. The activity complies with one or more of the following criteria: (a) the infrastructure is dedicated to the operation of vessels with zero direct (tailpipe) CO2 emissions: electricity charging, hydrogen-based refuelling; (b) the infrastructure is dedicated to the provision of shore-side electrical power to vessels at berth; (c) the infrastructure is dedicated to the performance of the port's own operations with zero direct (tailpipe) CO2 emissions; (d) the infrastructure and installations are dedicated to transhipping freight between the modes: terminal infrastructure and superstructures for loading, unloading and transhipment of goods. 2. The infrastructure is not dedicated to the transport or storage of fossil fuels.	The activity complies with one of the following criteria: (a) vehicles of category N1 have zero direct (tailpipe) CO2 emissions; (b) vehicles of category N2 and N3 with a technically permissible maximum laden mass not exceeding 7,5 tonnes are 'zero-emission heavy-duty vehicles' as defined in Article 3, point (11), of Regulation (EU) 2019/1242; (c) vehicles of category N2 and N3 with a technically permissible maximum laden mass exceeding 7,5 tonnes are one of the following: (i) 'zero-emission heavy-duty vehicles', as defined in Article 3, point (11), of Regulation (EU) 2019/1242; (ii) where technologically and economically not feasible to comply with the criterion in point (i), 'lowemission heavy-duty vehicles' as defined in Article 3, point (12), of that Regulation. 2. Vehicles are not dedicated to the transport of fossil fuels	1. The activity complies with one or both of the following criteria: (a) the trains and wagons have zero direct tailpipe CO2 emission; (b) the trains and wagons have zero direct tailpipe CO2 emission when operated on a track with necessary infrastructure, and use a conventional engine where such infrastructure is not available (bimode). 2. The trains and wagons are not dedicated to the transport of fossil fuels

Table 11: Substantial contribution criteria for **Climate Adaptation for infrastructure, road, rail and offshore Energy** related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

6.16 Infrastructure enabling low	6.6 Freight transport	6.2 Freight rail transport	4.3 Electricity generation from	4.4 Electricity generation from
carbon water transport	services by road		wind power	ocean energy technologies

- 1. The economic activity has implemented physical and non-physical solutions ('adaptation solutions') that substantially reduce the most important physical climate risks that are material to that activity.
- 2. The physical climate risks that are material to the activity have been identified from those listed in Appendix A to this Annex by performing a robust climate risk and vulnerability assessment with the following steps:
- (a) screening of the activity to identify which physical climate risks from the list in Appendix A to this Annex may affect the performance of the economic activity during its expected lifetime:
- (b) where the activity is assessed to be at risk from one or more of the physical climate risks listed in Appendix A to this Annex, a climate risk and vulnerability assessment to assess the materiality of the physical climate risks on the economic activity;
- (c) an assessment of adaptation solutions that can reduce the identified physical climate risk. The climate risk and vulnerability assessment is proportionate to the scale of the activity and its expected lifespan, such that:
- (a) for activities with an expected lifespan of less than 10 years, the assessment is performed, at least by using climate projections at the smallest appropriate scale;
- (b) for all other activities, the assessment is performed using the highest available resolution, state-of-the-art climate projections across the existing range of future scenarios (453/554/483) consistent with the expected lifetime of the activity, including, at least, 10 to 30 year climate projections scenarios for major investments.
- 3. The climate projections and assessment of impacts are based on best practice and available guidance and take into account the state-of-the-art science for vulnerability and risk analysis and related methodologies in line with the most recent Intergovernmental Panel on Climate Change reports (454/555/484), scientific peer-reviewed publications and open source (455/456/485) or paying models.
- 4. The adaptation solutions implemented:
- (a) do not adversely affect the adaptation efforts or the level of resilience to physical climate risks of other people, of nature, of cultural heritage, of assets and of other economic activities;
- (b) favour nature-based solutions (456/557486) or rely on blue or green infrastructure (457/487) to the extent possible;
- (c) are consistent with local, sectoral, regional or national adaptation plans and strategies;
- (d) are monitored and measured against pre-defined indicators and remedial action is considered where those indicators are not met;
- (e) where the solution implemented is physical and consists in an activity for which technical screening criteria have been specified in this Annex, the solution complies with the do no significant harm technical screening criteria for that activity.
- 1. The economic activity has implemented physical and non-physical solutions ('adaptation solutions') that substantially reduce the most important physical climate risks that are material to that activity.
- 2. The physical climate risks that are material to the activity have been identified from those listed in Appendix A to this Annex by performing a robust climate risk and vulnerability assessment with the

following steps:

- (a) screening of the activity to identify which physical climate risks from the list in Appendix A to this Annex may affect the performance of the economic activity during its expected lifetime;
- (b) where the activity is assessed to be at risk from one or more of the physical climate risks listed in Appendix A to this Annex, a climate risk and vulnerability assessment to assess the materiality of the physical climate risks on the economic activity;
- (c) an assessment of adaptation solutions that can reduce the identified physical climate risk. The climate risk and vulnerability assessment is proportionate to the scale of the activity and its expected lifespan, such that:
- (a) for activities with an expected lifespan of less than 10 years, the assessment is performed, at least by using climate projections at the smallest appropriate scale;

- (b) for all other activities, the assessment is performed using the highest available resolution, state-of-the-art climate projections across the existing range of future scenarios (453/554/483) consistent with the expected lifetime of the activity, including, at least, 10 to 30 year climate projections scenarios for major investments.
- 3. The climate projections and assessment of impacts are based on best practice and available guidance and take into account the state-of-the-art science for vulnerability and risk analysis and related methodologies in line with the most recent Intergovernmental Panel on Climate Change reports (454/484), scientific peer-reviewed publications and open source (455/485) or paying models.
- 4. The adaptation solutions implemented:
- (a) do not adversely affect the adaptation efforts or the level of resilience to physical climate risks of other people, of nature, of cultural heritage, of assets and of other economic activities;
- (b) favour nature-based solutions (456/557/486) or rely on blue or green infrastructure (457/558/487) to the extent possible;
- (c) are consistent with local, sectoral, regional or national adaptation plans and strategies;
- (d) are monitored and measured against pre-defined indicators and remedial action is considered where those indicators are not met;
- (e) where the solution implemented is physical and consists in an activity for which technical screening criteria have been specified in this Annex, the solution complies with the do no significant harm technical screening criteria for that activity.

Annex IV: Do No Significant Harm criteria for Infrastructure, road, rail and energy related economic activities

Table 12: **Do no significant harm** criteria for **offshore energy** related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives.

	4.3 Electricity generation from wind power	4.4 Electricity generation from ocean energy technologies
Climate Mitigation	N/A	
Climate Adaptation	The activity complies with the criteria set out in Appendix A to this Annex.	
The sustainable use and protection of water and marine resources	In case of construction of offshore wind, the activity does not hamper the achievement of good environmental status as set out in Directive 2008/56/EC of the European Parliament and of the Council (158), requiring that the appropriate measures are taken to prevent or mitigate impacts in relation to that Directive's Descriptor 11 (Noise/Energy), laid down in Annex I to that Directive, and as set out in Commission Decision (EU) 2017/848 (159) in relation to the relevant criteria and methodological standards for that descriptor	The activity does not hamper the achievement of good environmental status, as set out in Directive 2008/56/EC, requiring that the appropriate measures are taken to prevent or mitigate impacts in relation to that Directive's Descriptor 11 (Noise/Energy), laid down in Annex I to that Directive, and as set out in Decision (EU) 2017/848 in relation to the relevant criteria and methodological standards for that descriptor.
The transition to a circular economy	The activity assesses availability of and, where feasible, uses equipment and co	mponents of high durability and recyclability and that are easy to dismantle and refurbish.

Pollution	N/A	Measures are in place to minimise toxicity of anti-fouling paint and biocides as laid		
prevention		down in Regulation (EU) No 528/2012 of the European Parliament and of the Council		
and control		(161), which implements in Union law the International Convention on the Control of		
		Harmful Anti-fouling Systems on Ships adopted on 5 October 2001.		
The	The activity complies with the criteria set out in Appendix D to this Annex. The activity does not hamper the achievement of good environmental status, as set out in			
protection	Directive 2008/56/EC, requiring that the appropriate measures are taken to prevent or mitigate impacts in relation to that Directive's Descriptor 1 (biodiversity), laid			
and	down in Annex I to that Directive, and as set out in Decision (EU) 2017/848 in relation to the relevant criteria and methodological standards for that descriptors.			
restoration of	The activity complies with the criteria set out in Appendix D to this Annex. The activity does not hamper the achievement of good environmental status, as set out in			
biodiversity	Directive 2008/56/EC, requiring that the appropriate measures are taken to prevent or mitigate impacts in relation to that Directive's Descriptor 1 (biodiversity), laid			
and	down in Annex I to that Directive, and as set out in Decision (EU) 2017/848 in relation to the relevant criteria and methodological standards for that descriptor			
ecosystems				

Table 13: **Do no significant harm** criteria for **infrastructure, road and rail** related economic activities, taken from the first delegated act on sustainable activities for climate change adaptation and mitigation objectives

	6.16 Infrastructure enabling low carbon water transport	6.6 Freight transport services by road	6.2 Freight rail transport
Climate Mitigation	The infrastructure is not dedicated to transportation or storage of fossil fuels. In case of new infrastructure or major renovation, the infrastructure has been climate proofed in accordance with the appropriate climate proofing practice that includes carbon footprinting and clearly defined shadow cost of carbon. Such carbon footprinting covers scope 1-3 emissions, and demonstrates that the infrastructure does not lead to additional relative greenhouse gas emissions, calculated on the basis of conservative assumptions, values and procedures	1. The vehicles are not dedicated to the transport of fossil fuels. 2. For vehicles of category N2 and N3 falling under the scope of Regulation (EU) 2019/1242, specific direct CO2 emissions are equal to or lower than the reference CO2 emissions of all vehicles in the same subgroup, as defined in Article 3 of that Regulation (488).	
Climate Adaptation	The activity complies with the criteria set out in Appendix A to this Annex.	The activity complies with the criteria set out in Appendix A to this Annex.	The activity complies with the criteria set out in Appendix A to this Annex.

The	The activity complies with the provisions of Directive 2000/60/EC, in particular with all the	N/A	N/A
sustainable	requirements laid down in Article 4 of the Directive. In accordance with Article 4 of Directive	·	,
use and	2000/60/EC and in particular paragraph 7 of that Article, prior to refurbishment/construction,		
protection of	an impact assessment of the project is carried out to assess all its potential impacts on the		
water and	status of water bodies within the same river basin and on protected habitats and species		
marine	directly dependent on water, considering in particular migration corridors, free-flowing rivers		
resources	or ecosystems close to undisturbed conditions. The assessment is based on recent,		
	comprehensive and accurate data, including monitoring data on biological quality elements		
	that are specifically sensitive to hydromorphological alterations, and on the expected status		
	of the water body as a result of the new activities, as compared to its current one. It assesses,		
	in particular, the cumulated impacts of this new project with other existing or planned		
	infrastructure in the river basin. On the basis of that impact assessment, it has been		
	established that the project is conceived, by design and location and by mitigation measures,		
	so that it complies with one of the following requirements:		
	(a) the project does not entail any deterioration nor compromises the achievement of good		
	status or potential of the specific water body it relates to,		
	(b) where the project risks to deteriorate or compromise the achievement of good		
	status/potential of the specific water body it relates to, such		
	deterioration is not significant, and is justified by a detailed costbenefit assessment		
	demonstrating both of the following:		
	(i) the overriding reasons in the public interest or the fact that the benefits expected from the		
	planned navigation infrastructure project in terms of benefits to climate change		
	mitigation/adaptation outweigh the costs from deteriorating the status of water that are		
	accruing to the environment and to society		
	(ii) the fact that the overriding public interest or the benefits expected from the activity		
	cannot, for reasons of technical feasibility or disproportionate cost, be achieved by		
	alternative means that would lead to a better environmental outcome (such as nature based		
	solution, alternative location, rehabilitation/refurbishment of existing infrastructures, or use		
	of technologies not disrupting river continuity). All technically feasible and ecologically		
	relevant mitigation measures are implemented to reduce adverse impacts on water as well as		
	on protected habitats and species directly dependent on water. Mitigation measures include,		
	where relevant and depending on the ecosystems naturally present in the affected water		
	bodies:		
	(a) measures to ensure conditions as close as possible to undisturbed continuity (including		
	measures to ensure longitudinal and lateral continuity, minimum ecological flow and		
	sediment flow); L 442/308 Official Journal of the European Union 9.12.2021 EN		
	(b) measures to protect or enhance morphological conditions and habitats for aquatic		
	species;		
	(c) measures to reduce adverse impacts of eutrophication.		

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The transition to a circular economy	The effectiveness of those measures is monitored in the context of the authorisation or permit setting out the conditions aimed at achieving good status or potential of the affected water body. The project does not permanently compromise the achievement of good status/potential in any of the water bodies in the same river basin district. In addition to the mitigation measures referred to above, and where relevant, compensatory measures are implemented to ensure that the project does not result in overall deterioration of status of water bodies in the same river basin district. This is achieved by restoring (longitudinal or lateral) continuity within the same river basin district to an extent that compensates the disruption of continuity, which the planned navigation infrastructure project may cause. Compensation starts prior to the execution of the project. At least 70 % (by weight) of the non-hazardous construction and demolition waste (excluding naturally occurring material defined in category 17 05 04 in the European List of Waste established by Decision 2000/532/EC) generated on the construction site is prepared for reuse, recycling and other material recovery, including backfilling operations using waste to substitute other materials, in accordance with the waste hierarchy and the EU Construction and Demolition Waste Management Protocol (559). Operators limit waste generation in processes related construction and demolition, in accordance with the EU Construction and Demolition Waste Management Protocol and taking into account best available techniques and using selective demolition to enable removal and safe handling of hazardous substances and facilitate reuse and high-quality recycling by selective removal of materials, using available sorting systems for construction and demolition waste.	Vehicles of category N1, N2 and N3 are both of the following: (a) reusable or recyclable to a minimum of 85 % by weight; (b) reusable or recoverable to a minimum of 95 % by weight (489). Measures are in place to manage waste both in the use phase (maintenance) and the end-of-life of the fleet, including through reuse and recycling of batteries and electronics (in particular critical raw materials therein), in accordance with the waste hierarchy.	Measures are in place to manage waste, in accordance with the waste hierarchy, in particular during maintenance
Pollution prevention and control	Measures are taken to reduce noise, vibration, dust and pollutant emissions during construction maintenance works.	For road vehicles of categories M and N, tyres comply with external rolling noise requirements in the highest populated class and with Rolling Resistance Coefficient (influencing the vehicle energy efficiency) in the two highest populated classes as set out in Regulation (EU) 2020/740 and as can be verified from the European Product Registry for Energy Labelling (EPREL). Vehicles comply with the requirements of the most recent applicable stage of the Euro VI heavy duty emission typeapproval (490) set out in accordance with Regulation (EC) No 595/2009.	Engines for the propulsion of railway locomotives (RLL) and engines for the propulsion of railcars (RLR) comply with emission limits set out in Annex II to Regulation (EU) 2016/1628.

		Vehicles comply with Regulation (EU) No 540/2014.	
The protection and restoration of biodiversity and ecosystems	The activity complies with the criteria set out in Appendix D to this Annex.	N/A	N/A

Annex V Detailed reporting guidelines

Detailed reporting guidelines can be found in Annex I and Annex II of "COMMISSION DELEGATED REGULATION (EU) 2021/2178 supplementing Regulation (EU) 2020/852 of the European Parliament and of the Council by specifying the content and presentation of information to be disclosed by undertakings subject to Articles 19a or 29a of Directive 2013/34/EU concerning environmentally sustainable economic activities, and specifying the methodology to comply with that disclosure obligation (Publications Office (europa.eu)