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CONSEJERÍA DE ECONOMÍA, HACIENDA Y EMPLEO

1. NEW SUSTAINABILITY STRATEGY



CAM New Sustainability Strategy – 2023 -2030

The Community of Madrid established a **new Energy, Climate, and Air Strategy (EECAM)** for the 2023-2030 period which introduces **7 Strategic Objectives** focused on boosting energy efficiency, promoting responsible self-consumption, expanding renewable energy use, and reducing emissions among others. The plan identifies key sectors for urgent action and potential challenges, proposing targeted areas where stakeholders and society **can drive meaningful change**. The strategy incorporates **58 detailed measures** within the framework to effectively address these environmental challenges.

- Boost energy efficiency and promote self-consumption of renewable sources.
- Contribute to the improvement of the availability, security, and quality of energy supply at a reasonable price and promoting self-sufficiency.
- Promote the growth of electric and thermal energy production using renewable or low-carbon sources.
- 4 Reduce greenhouse gas emissions, encouraging carbon capture and sequestration.
- 5 Reduce emissions of atmospheric pollutants to improve air quality.
- 6 Progress towards a territory fully adapted to potential climate threats.
- Support cultural change towards the transition to a decarbonized society, driving development and research





Estrategia de Energía, Clima y Aire de la Comunidad de Madrid 2023-2030











Selected 2030 Targets for Energy, Climate, and Air Strategy (EECAM)

TRANSPORTATION AND MOBILITY SECTOR



- 23% reduction in the number of journeys made by private vehicles (vehicles/km)
- Taxi and vehicle-for-hire (VTC) sectors to reach
 100% zero emissions
- Vehicles used for passenger transport and goods distribution targeted to achieve 50% zero emissions
- Urban and interurban bus fleets, as well as institutional vehicles, to be 100% zero emissions
- Registration of 850,000 electric vehicles and installation of 20,455 public charging points
- Targeting an average age of vehicles on the road to be 10 years
- Progressive introduction of hydrogen fuel cell technology in private fleets of light and heavy vehicles
- Establishment of low-emission zones in all municipalities in the CAM with more than 50,000 inhabitants.

RESIDENTIAL, COMMERCIAL, AND INSTITUTIONAL SECTOR



- All public and residential buildings must achieve at least an E energy rating
- Reduction of over 30% in the consumption of non-renewable primary energy in rehabilitated buildings
- Increase the number of devices with more efficient energy labeling
- 1 GW of self-consumption
- Ensure all public lighting is energy-efficient in the Community of Madrid

CROSS-CUTTING AREAS OF ACTION

- Increase the level of education of society in matters related to the strategy
- Maintain and improve air quality networks and climate change monitoring in the CM
- Incorporate the climate change variable into new plans and legal instruments
- Include sustainability, energy savings, and efficiency criteria in contracts of the CAM public administrations and entities
- Reduce the total cumulative energy consumption in all public buildings by 18% by 2025 and by 50% by 2030



Selected 2030 Targets for Energy, Climate, and Air Strategy (EECAM)

ENERGY, INDUSTRY, AND UTILITIES SECTOR



- Reduce the Interruption time Equivalent to the installed Capacity (TIEPI) and Number of Equivalent Interruptions per Installed Power in Medium Voltage (NIEPI) by 10%
- Achieve at least 5 GW of installed photovoltaic solar
- Coordinate renewable energy development with storage facilities to reach 20% of renewable installed capacity
- Gradually introduce hydrogen technologies from pilot projects to fully operational industrial projects
- Reduce energy intensity by an average annual rate of 2.53%
- Increase cumulative annual growth of energy communities by 10%
- Increase by 10% the industries improving their processes for heat and energy utilization*
- Achieve primary energy savings and reduction of GHG emissions, improving the self-sufficiency capacity of the CM
- Reduce fluorinated gas emissions by 33% compared to 2005
- 25% of industrial companies using some form of renewable energy
- 100% renewable or clean energy self-consumption in CYII facilities
- 15% reduction in waste weight generated compared to 2010

AGRICULTURE AND NATURAL ENVIRONMENT SECTOR



- Reduce energy consumption from petroleum derivatives in the agricultural sector by up to 50%
- Achieve a 21% reduction in ammonia emissions from farms compared to 2005 emissions
- Contribute to reducing CH4 emissions linked to livestock
- Improve the carbon capture capacity of agricultural soils
- Ensure 50% of the forests in the Community of Madrid have sustainable forest management plans or silvicultural references
- · Increase the sustainable use of forest biomass
- Analyze the risks and vulnerabilities of the agricultural and livestock sectors to climate change and enhance their capacity to adapt to such impacts
- Develop studies and projects for ecosystem services and promoting carbon absorption
- Reduce the risk of fire and minimize its magnitude
- Ensure 100% of municipalities with more than 50,000 inhabitants have an adaptation plan



CAM Sustainability Strategy 2030

Ambitious investments in subway line extensions and bus interchanges & terminals







CAM Sustainability Strategy 2030

Comprehensive water cycle management



INTEGRATED WATER CYCLE

REGENERATION

Regenerated water refers to wastewater that has been purified and subjected to additional treatment, making it suitable for street cleaning, irrigation of public parks, golf courses, and even for industrial uses.

CAPTURE

Reservoirs, weirs, and groundwater wells make up the bulk of the water collected by the Canal for supplying the Community of Madrid.

TREATMENT

Before distribution, raw water arrives via large channels at the potable water treatment plants (WTPs), where the most modern treatment technologies ensure the highest water quality before consumption.

SANITATION

Sanitation management encompasses the transportation of wastewater through urban drainage networks to wastewater treatment plants (WWTPs), followed by the purification of this water to return it to rivers in optimal conditions.

DISTRIBUTION

The main conduits, regulating reservoirs, pumping stations, and the distribution network ensure a continuous service with the required pressure and quality.



Source: Comunidad de Madrid, Canal de Isabel II

Metro de Madrid – Sustainability Financing Framework

Metro de Madrid has developed a Sustainable Financing aligned to ICMA GSS Principles and LMA Principles to issue Green, Social, Sustainability and Sustainability Linked bonds and loans to finance and support activities that will contribute to the United Nations Sustainable Development Goals and the Company's Sustainability Strategy.

STRATEGIC AREAS

- ✓ Carbon neutrality
- ✓ Protection of the environment
- ✓ Commitment to people
- ✓ Inclusive mobility
- ✓ Sustainable performance



MAIN FEATURES of the SUSTAINABILITY FINANCING FRAMEWORK



USE OF PROCEEDS CATEGORIES

Green Eligible Categories

- Clean transportation
- Energy efficiency
- Renewable Energy

Social Eligible Categories

- * Affordable basic infrastructure
- Access to essential services



KPI & SPTs

KPI - Total electric energy consumption (KWh) / metro car-kilometre produced. Total electric energy consumption is the sum of electric energy consumption for traction and auxiliary services.

SPT - Reduce total electric energy consumption (KWh) / metro car-kilometre produced to 2,8888 by 2028 coming from 2,9815 in year 2023 as baseline represents a reduction of 3,06% by 2028) Intermediate targets set 2024-2028



SPO by DNV.GL



EMT – Sustainability Financing Framework

- EMT Madrid is a leading public transportation company in the city of Madrid.
- Operates a fleet of more than 2,000 buses, averaging over 1.5 million trips daily. Manages the Madrid Public Bicycle service (BiciMad) which features over 3,500 bicycles, more than 250 stations, and records more than 3 million uses
- Since its inception, EMT Madrid has been committed to sustainability and reducing greenhouse gas emissions. It has been a pioneer in incorporating hybrid and electric buses into its fleet and implementing measures to enhance energy efficiency, thereby reducing the environmental impact of all its operations.

STRATEGIC PILLARS

- ✓ Strategy, Management, and Transparency
- ✓ Good Governance and Ethics
- ✓ Customers and Society
- ✓ Environment
- ✓ Economically Sustainable Management





MAIN FEATURES OF THE SUSTAINABILITY FINANCING FRAMEWORK



USE OF PROCEEDS CATEGORIES

Green Eligible Categories

- Clean transportation
- Energy efficiency
- Renewable Energy

Social Eligible Categories

- Affordable basic infrastructure
- Access to essential services



KPI & SPTs

KPI

- 1. The percentage of electric fleet and zero-emission vehicles.
- Nox emissions
- 3. Renewable energy generated by photovoltaic panels for self-consumption

SPT

- . Increase by 25% by 2025 of electric fleet and zero-emission vehicles
- 2. Decrease by 0.30 Kg/1,000Km Nox emissions by 2025
- 3. Increase to 6,000 MWh/year renewable energy generated by photovoltaic panels for self-consumption



Capgemini invent



CONSEJERÍA DE ECONOMÍA, HACIENDA Y EMPLEO

2. GREEN FINANCING REPORT



Green Financing Strategy - Overview

4 Green bonds issued up to date totaling a size of EUR 2,300Mn

2021, 2022 & 2023 Green Bonds allocated to clean transportation projects fully aligned with EU Taxonomy



Continued assessment towards implementing alignment on EU Taxonomy regarding other green categories, such as Waste Management and Environmental Conservation

2023 Green Financing eligible portfolio of EUR 811.6 Mn

reen intancing engible portions of Lory 511.5 with

Environmental
Conservation
€ 5.7 Mn

Waste
Management
€ 7.9 Mn

Transportation € 797.9 Mn

Green Eligible Portfolio

Annual impact report published on Comunidad de Madrid Website*

Committed to at least one Green Bond issuance per year



Comunidad de Madrid is a relevant player in Sustainable Finance



CAM – 2023 Green Bond - Review

Final Terms and Conditions

Issuer	The Autonomus Community of Madrid
Issuer Ratings	A/Baa1/A/BBB+ (all Stable) (S&P/Moody's/DBRS/Fitch)
Format	Senior Unsecured
Ranking	RegS, Dematerialised
Risk Weighting	0%
Size	EUR 600m
Maturity	31st October 2028
Settlement	29th June 2023 (T+7)
Coupon	3.362 Fixed, Annual, Act/Act, long first coupon
Reoffer	100%, 3.357% Yield
Benchmark	SPGB 5.15% 10/31/2028 @ 3.147% +21bps, HR 93%
Listing	AIAF
Min Denoms	€1k + €1k
Bookrunner	BBVA, CaixaBank, Crédit Agricole CIB, HSBC, ING and Santander

Investor Type & Geographical distribution



Transaction Highlights

- On Tuesday June 20th, 2023, the Autonomous Community of Madrid successfully launched and priced a new EUR 600M Long-5yr Green Bond at a spread of +21 bps over SPGB.
- The transaction was preceded by a week-long marketing exercise with European investors across different geographies to present the impact report of its third green bond issued in 2022, the macro outlook of the region, funding strategy and sustainable finance plans.
- The mandate was announced the previous day on Monday June 20th with no Initial Price Thoughts to be launched and priced in the near future subject to market conditions.
- The strong response from investors (with IOI's exceeding EUR 400M) and a stable market opening allowed the transaction to hit the screens early the next day for a size in the top range of the issuers target (EUR 600M WNG):
 - Books opened at 9:00 CET for a size EUR 600M WNG and a Guidance of SPGB + 26bps area
 - By 10:30 CET the demand already exceeded EUR 2bn (excluding JLM interests)
 which allowed the guidance to be revised to SPGB + 23 bps area.
 - By 11:45 CET the spread was set at SPGB+ 21bps with books over EUR 2.6bn (excluding JLM interests).
 - Books finally closed at 12:00 am CET with demand north of EUR 2bn demand and 111 investors involved.
 - The deal was Priced at 100.00% with yield of 3.357%.
- Strong execution metrics with total demand peaking at 2.7bn during the transaction.
- High granularity of orders with more than 110 accounts involved and strong support from international investors representing 57% of the total allocations. The quality of the book is also reflected on the 41% allocation to asset managers, insurance and pension funds.



CAM – 2023 Green Bond - Highlights



- The 2023 Green bond issued in June 2023 represented the fourth Green bond offering of Comunidad de Madrid.
- Comunidad de Madrid is the only region in Spain issuing Green Bonds.



• Comunidad de Madrid is committed to keep on promoting the ESG bond market and sustainable investments with a Framework that allows the Region to issue Green, Social and Sustainable Bonds.



- The proceeds of the bond have been allocated to expenditures mostly in Clean Transportation followed by Waste Management and Environmental conservation
- 2023 Green Bond use of proceeds is fully aligned with the EU Taxonomy (100% of the use of proceeds allocated).
- The projects will contribute to one environmental objective as defined the EU Taxonomy, Climate Mitigation.



Avoided a total of 249,164 CO2eq atmospheric emissions.



Comunidad de Madrid engaged with a third party verifier to assess compliance with the EU Taxonomy*.



Strong demand from dedicated ESG investors.

CAM – 2023 Green Bond – Selected Allocated Projects

Clean Transportation





- Comunidad de Madrid supports the decarbonization of the Region's public transport
- In 2023, EMT Madrid allocated a €32 million investment for the acquisition of 106 new electric buses. This addition brings the total number of electric buses in their fleet to 265, complemented by 1,837 buses powered by natural gas. Furthermore, this initiative has received a subsidy of €21 million from the Next Generation EU fund
- This is in line with the company' strategy of gradually reducing the fleet's carbon emissions reaching 539 electric vehicles by 2025



- Comunidad de Madrid supports the maintenance and development of the fullyelectrified Madrid's metro
- In 2012, Metro de Madrid initiated an Energy Savings Plan, investing over 8.5 million euros. By 2023, the plan had achieved a 26% reduction in energy consumption from 2011 levels. Additionally, energy efficiency per subway car per kilometer improved by 19%. This initiative underscores Metro de Madrid's commitment to enhancing energy efficiency and promoting sustainability in its operations.



Aligned to EU Taxonomy and standards

2023 Green Eligible Portfolio

	Overview of the Green Eligible Expenditures 2023								
Eligible Category	Eligible Expenditures	Budgetary Programme	Budget Code	UN SDGs	EU Environmental Objectives				
	Waste Management: Measures to implement the Waste Strategy of Comunidad de Madrid	16: Environment, Local administration and territorial planning	456N 456B	11 SUSTAINABLE CITIES AND COMMUNITIES	EU Objective 4: Circular economy				
Climate change and environmental management	Clean transportation: Promote the manufacture and use of the electric vehicles and points of recharge Promote public transport services and modal shift towards public transportation (e.g. railway, metro de Madrid, bus system) and soft mobility, support multimodal transport solutions and promote the use of bicycles	14: Transport, Social Housing & Infrastructure	453N 456B	11 SUCHAMARI CHES 13 CLIMATE ACTION ACTION 13 CLIMATE ACTION	EU Objective 1: Climate change mitigation				
	Environmental conservation: Management and restoration of Protected Natural Parks and other unique spaces with important conservation value	16: Environment, Local administration and territorial planning	456A	15 UITE ON LAND	EU Objective 6: Protection and restoration of biodiversity and ecosystems				



2023 Green Eligible Portfolio

Overview of the Green Eligible Expenditures Portfolio 2023						
Eligible Expenditures	UN SDGs	Amount (EUR Mn)	Subcategories	Amount (EUR Mn)		
Waste	11 SECTIONALE CITES AND COMMUNITY 7.9		Domestic Waste Management	7.0		
Management		7.0	Maintenance of the Air Quality Network	0.9		
	11 SUSTAINABLE CITIES AND COMMUNITIES		EMT Bus	101.1		
			Intercity Bus	172.8		
Clean Transportation	13 CUMATE	797.9	• Metro	388		
Transportation			 Measures for the Promotion of Sustainable Mobility 	2.7		
			Light Train	133.3		
			Environmental Education	0.6		
	15 UFE ONLAND		Conservation of Protected Natural Areas	1.4		
Environmental Conservation		5.7	Connectivity through Green Infrastructure	3.2		
			Protection of Wetlands	0.1		
			Grants to NPOs with Environmental Purposes	0.5		
		811.6		811.6		



2023 Green Eligible Portfolio – Impact Indicators

Overview of the Green Use of Proceeds				Impact Indicators							
Eligible Expenditures	UN SDGs	Amount (EUR m)	Subcategories	Amount (EUR m)	Managed Waste (tn)	Data Samples Collected	Emissions Avoided (tCO2)	Vehicles Subsidized	Number of Programs	Intervened Surface (ha)	Projects Selected
Waste	11 SUSTAINABLE CITIES AND GOMMUNITIES		 Domestic Waste Management 	7.0	75,765						
Management		7.9	 Maintenance of the Air Quality Network 	0.9		1,566,874					
	11 SUSTAINABLE CITIES AND COMMUNITIES		EMT Bus	101.1			15,345	-			
	AND COMMUNITIES		 Intercity Bus 	172.8			132,275	-			
	▄▦⋬ᆕ▁		 Metro 	388.0			220,438	-			
Clean Transportation	13 CLIMATE ACTION	797.9	 Measures for the Promotion of Sustainable Mobility 	2.7			-	6,157			
			 Light Train 	133.3			11,033	-			
	15 urt on Land	,	 Environmental Education 	0.6					15		
			 Conservation of Protected Natural Areas 	1.4						118,537	
Environmental Conservation			 Connectivity through Green Infrastructure 	3.2						581	
		,	Protection of Wetlands	0.1						93	
			 Grants to NPOs with Environmental Purposes 	0.5							13.0
		811.6		811.6	75,765.0	1,566,874.0	379,090.9	6,157.0	15.0	119,210.9	13.0



2023 Green Eligible Portfolio – Clean Transportation

Eligible Exp	enditures for	Clean Transportatio	on	Impact Indicators	EU Taxonomy Alignment (6.3 Urban and suburban transport, road passenger transport)												
Green category	UN SDGs	Subcategories	AllocationAm ount (EUR m)	Emissions Avoided (tCO2)	Primary EU Environmental Objective	EU Technical Screening Criteria	DNSH Criteria	Minimum Safeguards									
	11 SISTEMARIA CITES AND CONCERNITION 13 CHART ASTRON CONTRACTOR TO THE SISTEMARIA CITES TO T	EMT Bus	101.1	15,345		✓	✓	✓									
Clean			Intercity Bus	172.8	132,275	EU Objective 1:	✓	✓	✓								
Transportation (*)			13 action	13 action	13 CLIMATE	13 Action	13 CLIMATE ACTION	13 CLIMATE ACTION	13 CLIMATE ACTION	13 CLIMATE ACTION	13 CLIMATE ACTION	13 CLIMATE ACTION	Metro	388.0	220,438	Climate Mitigation	✓
		Light Train	133.3	11,033		✓	✓	✓									
			795.2	379,090.9													

^{****}

^{*} Excluding Measures for the Promotion of Sustainable Mobility

2023 Green Bond – Allocation & Impact

Overview of the allocation of bond proceeds				Impact Indicators EU Taxonomy - 6.3 Urban and suburban transport, road transport					
Green category	UN SDGs	Subcategories	AllocationAm ount (EUR Mn)	Emissions Avoided (tCO2)	Primary EU Environmental Objective	EU Technical Screening Criteria	DNSH Criteria	Minimum Safeguards	
	11 PRISTANABLE CITES AND COMMANDES 13 CLIMATE ACTION	EMT Bus	69.3	10,516	EU Objective 1: Climate Mitigation	✓	✓	✓	
Olean		Metro	388	220,438		✓	✓	✓	
Clean Transportation		Light Train	133.3	11,033		✓	✓	✓	
		Intercity Bus	9.4	7,177		✓	✓	✓	
	_	o.oky Buo	600	249,164					

Emissions avoided by Clean Transportation initiatives funded by the 2023 Green Bond proceeds are equivalent to in excess of those of **55,446 gasoline-powered passenger vehicles driven for one year***



^{*} Calculated using: https://espanol.epa.gov/la-energia-y-el-medioambiente/calculador-de-equivalencias-de-gases-de-efecto-invernadero

2023 Green Bond – Clean Transportation - Impact



Metro: the equivalent distance travelled by car would have caused 507,632.79 tCO2 emissions



EMT bus: the equivalent distance travelled by car would have caused 18,092.56 tCO2 emissions.



Intercity bus: the equivalent distance travelled by car would have caused 176,712.46 tCO2 emissions.



Light trains: the equivalent distance travelled by car would have caused 11,504.39 tCO2 emissions



2023 Avoided Emissions by Public Clean Transportation in the Region (tCO2): 666,757*



EU Taxonomy alignment process 2023 Green Bond Comunidad de Madrid

- In 2023, Comunidad de Madrid carried out an exercise to asses which proportion of its Green bonds use of proceeds were aligned with the EU taxonomy.
- In this regard, **Comunidad de Madrid engaged with a third party, DNV** to asses Comunidad de Madrid's 2021 Green Bond Use of Proceeds (fully allocated into the Clean Transportation category) compliance with the EU Taxonomy **and has received a positive assessment**.
- Comunidad de Madrid, based on that assessment has replicated the allocation process for its Green Bond issued in October 2022 and therefore confirms that the 2023 green bond is fully aligned with the taxonomy.
- Comunidad de Madrid has reviewed the Clean Transportation expenditures towards the EU Green Taxonomy

1. Contribute substantially to one or more of the environmental objectives

2. Do no significant harm to other environmental objectives

Taxonomy full alignment assessment

3. Comply with minimum social safeguards

4. Comply with technical screening criteria

Comunidad de Madrid Green Bond is fully aligned with the EU Taxonomy



DNV opinion on Taxonomy alignment assessment

Finding and DNV's Opinion Alignment to EU Taxonomy dated September 2022

WHEN TRUST MATTERS

GREEN BOND ALLOCATION AND IMPACT REPORTING

EU Taxonomy Alignment

Comunidad Autónoma de Madrid



Report No.: 1. Rev. 1 Document No.: PRJN-446392 Date: 23/09/2022

	Madrid
The activity provides urban or suburban passenger transport, and its direct (tallpipe) CO ₂ emissions are zero	considered aligned by the EU Taxonom
Until 31 December 2025, the activity provides	Use of proceeds for

interurban passenger road transport using vehicles designated as categories M2 and M3 that have a type of bodywork classified as C4 (single-deck vehicles), possible specified in possible specified in the busses show 'CB' (double-deck vehicle), 'CC' (single-deck articulated compliance with EURO VI standard. vehicle) or 'CD' (double-deck articulated vehicle), and comply with the latest EURO VI standard, i.e. both with ne requirements of Regulation (EC) No 595/2009 and from the time of the entry into force of amendments to that Regulation, in those amending acts, even before they become applicable, and with the latest step of the Euro VI standard set out in Table 1 of Appendix 9 to provisions governing that step have entered into force but have not yet become applicable for this type of vehicle. Where such standard is not available, the direct CO2 emissions of the vehicles are zero.

Emissions avoided with this UoP have been calculated b Comunidad de Madrid as 137.895 tCO2 for Metro, and 6,280

Table 3: Compliance with the minimum social safeguards

conspirates to the Ordinary involved or colored of colored and office the ordinary colored and finance (fight, coloridary the profession strettled as the eight fundamental convertions strettled in the Declaration of the Infamiliation convertions strettled as the Ordinary colored in the Colored and England Laboral Cognisistation on Fundamental Principles and Rights at Work and the Infamiliational Bill of Humans (Fights.).

As per article 18 of Regulation (EU) 2020/852: The CSR Policy and Code of Conduct is in place for both Metro and inimum safeguards referred to in point (c) of Article 3 EMT, aligned with the principles and rights set in the UN that is carrying out an economic activity to ensure the principles and rights set out in the fundamental conventions alignment with the OECD Guidelines for Multinational identified in the Declaration of the International Labour Enterprises and the UN Guiding Principles on Business Organisation on Fundamental Principles and Rights at Work

> compliance with ethical standards and respect for the human rights, integrity, transparency and protection of

that Comunidad de Madrid complies with the minimum social safeguards in Article 18 of Regulation (EU) 2020/852.

Table 2: Compliance with the "Do no significant harm" ("DNSH") criteria

DNSH Criteria	Project EU Taxonomy Alignment – Comunidad de Madrid
(2) Climate change adaptation The activity complies with the criteria set out in Appendix A to Annex 1 (EU) 2021/2139.	Fallowing climate change submerability and risk analysis. Commisside she fault insused Plan Aut J = 2015-2020. a shelping program of measures for mitigation and adaptation and adaptation and adaptation of a shelping program of the program of the program of the Maddiff. Furthermore, a new triskingly is indeed evolutionised that will set out the broad lines of adoins up is 2000 to make progress in terms of climate aution (implication) and adaptation) progress in terms of climate aution (implication) and national guidelines and reparamental. The LOPI halfort and blasses in deemed not to breinfer with the adaptation measures contained in Plain Astul, measures or water resources, there violancing legislation and findustries.

region.	of carbon	n sequestrat	on in a	gricultur	al soils i	n the
Climate	Change	s is in line w Adaptation	in Co	mmissio	n Dele	pated
Regulation	n (EU)	2021/2139, t, road passe	Annex	1, 6.3	Urban	and

(3) Sustainable use and protection of water and Not applicable as per Commission Delegated Regulation (EU) 2021/2139, Annex 1, 6.3 Urban and suburban transpo road passenger transport

> However, Metro has provided evidence of extensive wat use and management plans for each underground station showing plans and measures to mitigate effects on water

4) Transition to a circular economy Metro de Madrid and EMT operate under an Environment

Management Systems certified according to ISO 14001 leasures are in place to manage waste, in accordant (maintenance) and the end-of-life of the fleet, including and initiatives are implemented based on integral rough reuse and recycling of batteries and electron in particular critical raw materials therein). resources (water and energy), materials and waste. Among others recovery of more than 95% of the waste generated

including batteries and electronic products, through improve waste segregation and management. A strategic plan in place in EMT for circular economy include projects like the design and construction of a Hydroger Fuelling Station and purchasing of biogas for the supply of

DNV considers this is in line with the criteria established f

2021/2139. Annex 1, 6.3 Urban and suburban transport, roa

2020/740 of the European Parliament and of the council and as can be verified from the European Product Registry for Energy Labelling (EPREL). Where applicable, vehicles comply with the requirements of the ost recent applicable stage of the Euro VI heavy duty mission type- approval set out in accordance wit Regulation (EC) No 595/2009.

For road vehicles of categories M, tyres comply with external rolling noise requirements in the highest consisted class and with Rolling Resistance Coefficient DNV considers this is in line with the criteria established for influencing the vehicle energy efficiency) in the two lighest populated classes as set out in Regulation (EU) Regulation (EU) 2021/2139, Annex 1, 6.3 Urban and

Not applicable as per Commission Delegated Regulation

(EU) 2021/2139, Annex 1, 6.3 Urban and suburban transpo

(6) Protection and restoration of biodiversity and

"On the basis of the information provided by Comunidad de Madrid and the work undertaken, it is DNV's opinion that proceeds have been used on Clean Transport projects that are aligned with the criteria established in the EU Taxonomy for Sustainable Activities-ANNEX 1 to Regulation (EU) 2021/2139 Section 6.3 (i). for DNV GL Business Assurance España S.L.U."



Selected 2030 Targets for Energy, Climate, and Air Strategy (EECAM)

1.- METHODOLOGICAL BASES

To quantify the emissions avoided by the use of regular public passenger transport in relation to hybrid or electric buses and rail modes (metro and rail concessions), it is assumed that if these trips had not been made by public transport, they would have been made by using private vehicles.

In this way:

Emissions Avoided = Emissions generated by the private vehicle - Emissions generated by public transport

To calculate the emissions that would have been produced by the travel of passengers in private vehicles, the number of passenger-km(1) that have used public transport in electric or hybrid modes will be multiplied by an emission factor based on the circulating fleet of passenger cars in the Community of Madrid, according to data from the DGT for 2020 (latest available). To calculate the emissions generated by trips made by public transport users in electric or hybrid modes, the energy consumed in these trips is multiplied by the emission factors mentioned in section 5.

2.- YEAR OF CALCULATION: 2022

3.- SCOPE:

Road modes:

- EMT of Madrid (hybrid and pure electric vehicles)
- Road concessions in the rest of the Community of Madrid (hybrid and pure electric vehicles)

Railway modes:

- Metro de Madrid (Subway)
- Railway concessions (TFM, MLM, MLO, Parla Tramway)

4.- ACTIVITY DATA

Road modes:

- Vehicle characteristics (Euro standard, fuel type)
- Fuel/electrical energy consumption of vehicle fleets or, alternatively, kilometers traveled per year

Railway modes:

Electricity consumption

5.- EMISSION FACTORS

CO2 emission factors for fossil fuels published by the Spanish Office of Climate Change (OECC), year 2022

- Diesel fuel B7: 2.519 gr CO2eq/liter
- CNG: 2.783 gr CO2eq/kg

Electricity emission factors year 2022. (Published by the CNMC):

- marketer without REC 2022: 273 gr CO2eg/kWh
- marketer with REC: 0 gr CO2eq/kWh

Average private vehicle emissions: Prepared by the authors based on the number of cars in circulation in the Community of Madrid, according to Dirección General de Trafico data for 2020 (latest available).

Average private vehicle (occupancy 1.2 passengers): 146 g CO2eq/km



