

2022 GREEN BOND ALLOCATION & IMPACT REPORTING



Sustainability Mandate of the Community of Madrid

Comunidad de Madrid has an important **environmental mandate**. Almost 50% of the region area of the region is protected due to its environmental protection and conservation value. The geo-economic situation in Madrid creates the need to implement policies for pollution management and waste treatment in densely populated urban areas.

Guided by this purpose, the region set out its **Strategy for Sustainable Waste Management** for the 2017-2024 period. In relation with climate change and air quality, the **Plan Azul+ 2013-2020** has been the backbone for eight years, particularly focusing in tackling pollution and promoting energy efficiency.

Among the measures set out in the Plan Azul+, which is expected to be followed by a new Plan, we find the following objectives by sector, which are representative of the regions' general sustainable strategy:

- Transportation: Metro de Madrid is Spain's largest and Europe's third largest (third to London and Moscow) metro system
 with 302 stations spread over 294 Km. Comunidad de Madrid aims to modernise taxi and bus fleets with greener vehicles,
 improvement of bicycle infrastructure, fiscal incentives for the transition towards greener technologies in private
 transportation
- Industry: reduction of emissions from industrial activities, like NOX produced by cogeneration plants
- Residential/commercial/institutional: use of clean fuels for domestic heating, improvements in energy efficiency, smart grids
- Agriculture: sustainable management of forests, promotion and development of biomass energy











2022
Emissions
Avoided by
Green Public
Transportation

600,825 tCO2



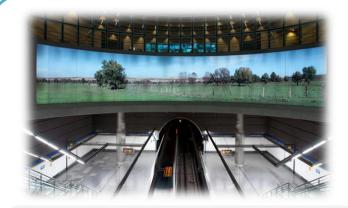
Source: Comunidad de Madrid

Green Expenditures for the 2022 Green Bond issuance

Clean Transportation



- Comunidad de Madrid supports the decarbonization of the Region's public transport
- In 2022, EMT Madrid has approved a €35m investment for the purchase of 50 new electric buses and 6 electric micro-buses
- This is in line with the company' strategy of gradually reducing the fleet's carbon emissions



- Comunidad de Madrid supports the maintenance and development of the fully-electrified Madrid's metro
- Thanks to the Energy Saving Plan 2012-2017 and the current Energy Efficiency Plan, Metro de Madrid

 the public enterprise of the Madrid underground –
 has reduced electricity consumption in daily operations by 25%



Comunidad de Madrid was the first Public Sector issuer in Spain to align its Green bonds with the EU taxonomy and standards

Source: Comunidad de Madrid

Other Environmental initiatives encouraged by CAM

Project and supply works and turnkey assembly for a plant of green hydrogen production or distribution network modernization among others



- Comunidad de Madrid is supporting economically several projects outside their green bond offerings.
- Through Canal de Isabel II (CYII), for instance, Comunidad de Madrid is carrying out the assembly of a plant for green hydrogen production.
 Including the operation of the facility for two years and the commercialization of H₂ produced.
- In 2022, a 1MW photovoltaic power plant has been built in the same wastewater station, being the first phase of the project. With a production capacity of 200Nm³/h green hydrogen.

- Canal de Isabel II is a fully publicly managed water company, the shareholding is made up of the Community of Madrid (82.4%) and 111 municipalities of the Community (17.6%).
- Through CYII, main competence is to supply and purify the water of most of the municipalities in the region.
- For the next year Comunidad de Madrid will support finance of over Eur 300M to CYII for RED Plan: Distribution Network Modernization with the aim to improve resiliency and modernization actions in the water distribution network of Madrid region.
- Canal de Isabel II are managers of a natural resource and is entrusted with the mission to protect the quality of bodies of water in the Madrid region. The preservation of the environment and the sustainable management of all their activities are part of the their DNA.
- Its main objective is to promote the circular economy and sustainable development, addressing the challenges associated with climate change through the corresponding adaptation and mitigation plans of Comunidad de Madrid.



Other Environmental initiatives encouraged by CAM

Biofactories: Obtaining raw material from wastewater treatment



Canal Isabel II annually produces more than 120 hm3 of reclaimed water, using it to irrigate green areas, wash streets and industrial uses. In addition, They understand wastewater treatment plants as biofactories in which Canal de Isabel II takes advantage of biogas to produce electricity and vehicle fuel, they sanitize sludge for reuse as fertilizers and recover phosphorus from wastewater to produce 1,5 tons of struvite daily. Facilities under Canal de Isabel II:

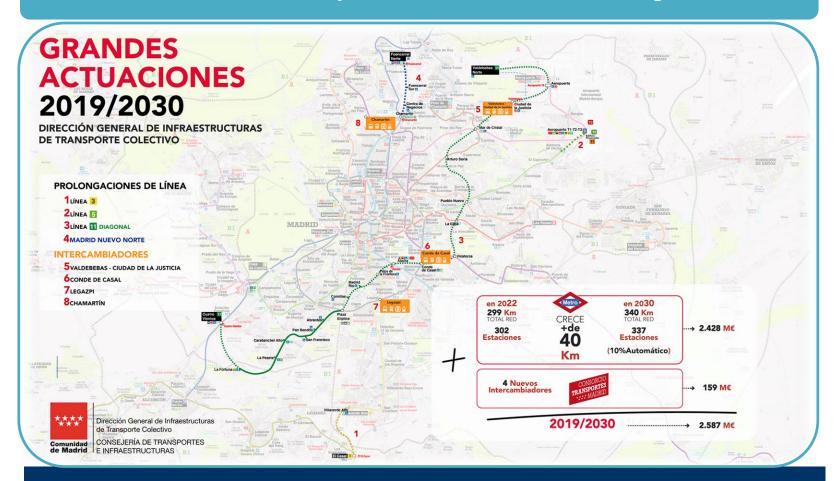
- 9 Hydroelectric power plants
- 13 Treatment plants equipped with motor generators that work from the biogas generated in the treatment
- 2 Cogeneration plants associated with thermal drying of sludge
- 3 Small wastewater jumps that take advantage of the difference in elevation at the discharge point
- 9 Microturbines installed at different points of the supply network
- 2 Purification stations that have several photovoltaic panels

Thanks to the joint performance of these facilities, last year **Canal de Isabel II broke their historical record for electricity generated. In total 420 million kilowatts hour, equivalent to 87 % of their total consumption**. Moreover they broke their historical record for the percentage of energy production over consumption (125 %).



Other Environmental initiatives encouraged by CAM

Ambitious investments in subway line extensions and bus interchanges & terminals





4 new bus interchanges and more than 40 new Km in metro lines by 2030

Source: Comunidad de Madrid

Overview Green Bond Funding Strategy Comunidad de Madrid

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Green bonds issued up to date totaling a size of 1,700M EUR

2021 & 2022 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

Annual Green Bond eligible portfolio over 700M EUR





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 Green Bond Issuer

Comunidad de Madrid 2022 Green Bond review

Final Terms and Conditions

Issuer The Autonomus Community of Madrid

Issuer Ratings A-/Baa1/A-/BBB (S&P/Moody's/DBRS/Fitch)

Format RegS, Bearer Dematerialised

Ranking Senior, Unsecured

Risk Weighting 0%

Size EUR 500m

Maturity 31-October-2029

Settlement 14-October-2022 (T+8)

Coupon 2.822% Fixed, Annual, Act/Act - Long first

Reoffer Price 100% / 2.822% / SPGB + 23 bps

Benchmark SPGB 0.6 10/31/29 @ 87.282% HR 107%

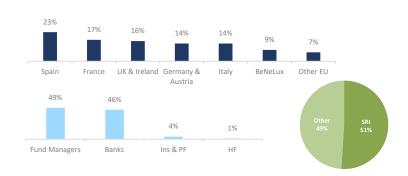
Listing AIAF

Min Denoms €1k + €1k

Bookrunners BBVA, CaixaBank, Crédit Agricole CIB, ING and Santander

ISIN ES00001010J0

Investor Type and Geographic Distribution



Transaction Highlights

- On Tuesday, October 4th, 2022, the Autonomous Community of Madrid successfully launched and priced its third Green bond deal and second public transaction in 2022.
- The bond issued under Autonomous Community of Madrid's existing Sustainable Finance Framework, becomes the first public sector issue in Spain and one of the few in Europe to be fully aligned with the EU Green Taxonomy.
- The transaction was preceded by a week-long marketing exercise with European investors:
 - On October 3rd, the Autonomous Community of Madrid formally mandated the banks for a new 7yr Green Bond with the objective to launch the transaction in the near future subject to market conditions.
 - On October 4th, the order book was officially open with a price guidance of SPGB+23 bps.
 - Books closed with a total demand of EUR 500M and final spread of SPGB+23bps allowing Comunidad de Madrid to print a successful deal in a very challenging and volatile market and consolidating its leading position as ESG bond issuer, being the first Spanish public sector issuer to launch 3 green bond deals.
- In terms of metrics the orderbook was well supported by international investors accounting for 77% of the total demand. The quality of the orders also allowed to allocate 53% of the notes to Real Money accounts.



Highlights of the 2022 Comunidad de Madrid's Third Green Bond



- The 2022 Green bond issued in October 2022 represented the third 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 in Clean Transportation.
- 2022 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 240,458 CO2eq atmospheric emissions.



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



Strong demand from dedicated ESG investors.



Green Bons Eligible Expenditures portfolio for 2022

Overview of the Green Eligible Expenditures 2022								
Eligible Category	Main 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 SUSTAINABLE CITIES AND COMMUNITIES 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 LIFE ON LAND	EU Objective 6: protection and restoration of biodiversity and ecosystems			



Green Bond Eligible Expenditures portfolio for 2022 (II)

Overview of the Green Eligible Expenditures Portfolio 2022						
Green categories	UN SDGs	Amount (EUR m)	Subcategories	Amount (EUR m)		
Waste	11 SUSTAINABLE CITIES AND COMMUNITIES		Domestic Waste Management	4.7		
Management	▄█▋▃	5.7	Maintenance of the Air Quality Network	1.1		
			EMT Bus	86		
	11 SUSTAINABLE CITIES		Intercity Bus	85.2		
			Metro	388.0		
Clean Transportation	13 ACHON	694.6	Measures for the Promotion of Sustainable Mobility	2.0		
			Light Train	133.3		
			Environmental Education	1.6		
			Conservation of Protected Natural Areas	5.3		
			Connectivity through Green Infrastructure	2.6		
Environmental Conservation	15 UPE ON LAND	11.6	Protection of Wetlands	0.2		
			Recovery and improvement of private forest areas	1.5		
			Grants to NPOs with Environmental Purposes	0.5		
		711 9		711 9		



Impact indicators Green Bond Eligible Expenditures portfolio for 2022 (I)

Overview of the Green Use of Proceeds					Impact Indicators						
Main 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)	Projec Selecte
Waste	11 SUSTAINABLE CITIES AND COMMUNITIES		Domestic Waste Management	4.7	73,560						
Management		5.7	Maintenance of the Air Quality Network	1.1		1,464,484					
			EMT Bus	86.0			10,503	-			
	11 SUSTAINABLE CITIES AND COMMUNITIES		Intercity Bus	85.2			55,847	-			
			Metro	388.0			228,336	-			
Clean Transportation	13 CLANATE	694.6	Measures for the Promotion of Sustainable Mobility	2.0			-	4,898			
			Light Train	133.3			8,299	-			
			Environmental Education	1.6					15		
			Conservation of Protected Natural Areas	5.3						118,527	
			Connectivity through Green Infrastructure	2.6						581	
Environmental Conservation	15 UFE AND	15 Wildow 9.0	Protection of Wetlands	0.2						117	
			Recovery and improvement of private forest areas	1.5						339	
			Grants to NPOs with Environmental Purposes	0.5							13.0
		711.9		711.9	73.559.9	1,464,484.0	302,985.8	4,898.0	15.0	119,564.0	13.0



Clean Transportation Eligible Expenditures portfolio for 2022

Overview of	Overview of the allocation of bond proceeds			Impact Indicators	EU Taxonomy S (6.3 Urban and suburban transport, road passenger transport				
Green category	UN SDGs	Subcategories	Allcoation Amount (EUR m)	Emissions Avoided (tCO2)	Primary EU Environmental Objective	EU Technical Screening Criteria	DNSH Criteria	Minimum Safeguards	
	11 SUSTAINABLE CITIES AND COMPANY TES	EMT Bus	86	10,503		✓	√	✓	
Clean		Intercity Bus	85.2	55,847	EU Objective 1: Climate Mitigation	✓	\checkmark	✓	
Transportation	13 CLIMATE ACTION	Metro	388.0	228,336		\checkmark	\checkmark	\checkmark	
		Light Train	133.3	8,299		✓	\checkmark	\checkmark	
			692.5	302,986					



2022 Green Bond: Allocation and Impact reporting

Overview of	Overview of the allocation of bond proceeds				EU Taxonomy (6.3 Urban and suburban transport, road passenger transpo			
Green category	UN SDGs	Subcategories	Allcoation Amount (EUR m)	Emissions Avoided (tCO2)	Primary EU Environmental Objective	EU Technical Screening Criteria	DNSH Criteria	Minimum Safeguards
	11 SESTABABLE CITIES AND COMMUNITIES	EMT Bus	86	10,503	EU Objective 1: Climate Mitigation	✓	✓	✓
Clean Transportation		Metro	388	228,336		✓	\checkmark	✓
	13 CAMART	Light Train	26	1,619		✓	\checkmark	\checkmark
			500	240,458				



Emissions avoided by Clean Transportation initiatives funded by the 2022 Green Bond proceeds are equivalent to in excess of those of 53,503 gasoline-powered passenger vehicles driven for one year

Comunidad de Madrid Green Bond 2022: Impacts in the Region's Public Transport



Metro: the equivalent distance travelled by car would have caused 525,820.86 tCO2 emissions



EMT bus: the equivalent distance travelled by car would have caused 13,139.35 tCO2 emissions.



Intercity bus: the equivalent distance travelled by car would have caused 89,631.14 tCO2 emissions.



Light trains: the equivalent distance travelled by car would have caused 11,824.63 tCO2 emissions

2022 Emissions Avoided by Green Public Transportation means in the Region (tCO2): 600,825



EU Taxonomy alignment process 2022 Green Bond Comunidad de Madrid

- ➤ In 2022, 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 2022 green bond is fully aligned with the taxonomy.
- > Comunidad de Madrid has reviewed the Clean Transportation expenditures towards the EU Green Taxonomy

- 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



WHEN TRUST MATTERS

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

(3) Sus

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

Table 1: Compliance with the technical screening criteria

EU Taxonomy Technical Screening Criteria	Project EU Taxonomy Alignment- Comunidad de Madrid
The activity provides urban or suburban passenger transport, and its direct (tallpipe) CO ₂ emissions are zero	Use of proceeds for Metro (EUR 387.8 million) and electric buses (EUR 105.375 million) are zero emissions and hence considered aligned with substantial contribution criteria set by the EU Taxonomy.
Justi 31 December 2025, the activity provides interturban passenger road transport using vehicles designated as categories MZ and MS that have a type of bodywork classified as CN (aligne)-deck vehicle). CIB (double-deck vehicle), CIB (double-deck vehicle), CIB (double-deck vehicle) or CID (double-deck veh	Use of proceeds for Hybrid busses (EUR 11.125 million) if in an a transitional advelys as referred to in Article 10 or some control of the busses showing compliance with EURO VI standard.

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

CO₂ emissions of the vehicles are zero

As per article 18 of Regulation (EU) 2020852: The minimum saleguards referred to in port (c) of Article 3 shall be procedures implemented by an undertaking that is carriying out en accoming catchy to ensure the elaginement with the CECO Guidelines for Multinational for CECO Control (C) and prompting on Submission 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 Bills of Human Rights.	CSR Policy and Code of Conduct is in place for both Metro and EMT, aligned with the principles and rights set in the UN Guiding Principles on Business and Human Rights and the principles and rights set out in the hundrested conventions identified in the Declaration of the international Labour Organisation on Fundamental Principles and Rights at West, and the International Biol Fundamental Principles and Rights at West, and the International Biol Fundamental Principles and requirements. If exposmble procurement, including requirements of responsible procurement, including rights, integrity, transparency and protection of the environment.
	DNV has reviewed the information provided and concludes that Comunidad de Madrid complies with the minimum social safeguards in Article 18 of Regulation (EU) 2020/852.

tCO₂ for busses (EMT)

"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."



DNSH Criteria	Project EU Taxonomy Alignment – Comunidad de Madrid
(2) Climate change adaptation The adulty complies with the criteria set out in Appendix A to Airner 1 (EU) 2021/2139.	Following climate change withorsability and risk analysis, Comunidad de Marida issued Plan Aud 9:103-2020, a strategical program of measures for mitigation and adaptation to climate change, to be implemented in Comunidad de Maridad. Furthermore, a new strategy is under development that set act out the broad lines of action po to 2030 to make that set act out the broad lines of action po to 2030 to make and a set of the control of the con

DNV considers this is in line with the criteria established for Climate Change Adaptation in Commission Delegate Regulation (EU) 2021/2139, Annex 1, 6.3 Urban an suburban transport, road passenger transport.

	Not applicable as per Commission Delegated Re
resources	(EU) 2021/2139, Annex 1, 6.3 Urban and suburban tra
	road passenger transport.

ever, Metro has provided evidence of extensive water 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 FMT operate under an Environmenta

Measures are in place to manage waste, in accordance with the waste hierarchy, both in the use phase (maintenance) and the end-of-life of the fleet, including and initiatives are implemented based on integral through reuse and recycling of batteries and electronics sustainability, using and optimising stocks and flows of (in particular critical raw materials therein).

Management Systems certified according to ISO 14001

resources (water and energy), materials and waste. Among others recovery of more than 95% of the waste generated. waste segregation and management. A strategic plan in place in EMT for circular economy includes

projects like the design and construction of a Hydrogen Fuelling Station and purchasing of biogas for the supply of

DNV considers this is in line with the criteria established for circular economy in Commission Delegated Regulation (EU) 2021/2139, Annex 1, 6.3 Urban and suburban transport, road Comunidad de Madrid has provided type approvals and

technical specification of the busses showing compliance For road vehicles of categories M. tyres comply with with EURO VI standard and external noise requirements opulated 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 pollution and prevention control in Commission Delegated highest populated classes as set out in Regulation (EU) Regulation (EU) 2021/2139, Annex 1, 6.3 Urban and 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 nost recent applicable stage of the Euro VI heavy duty emission type- approval set out in accordance with Regulation (EC) No 595/2009.

(6) Protection and restoration of biodiversity and

Not applicable as per Commission Delegated Regulati (FU) 2021/2139 Annex 1 6.3 Urban and suburban transport



Clean Transportation Impact Calculation Methodology

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 CO2eq/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