# Ferrovial - Climate Change 2020



## C0. Introduction

### C0.1

(C0.1) Give a general description and introduction to your organization.

Ferrovial is one of the world's leading infrastructure operators and municipal services companies, committed to developing sustainable solutions.

The company has 89,968 employees and a presence in over 15 countries. It is a member of Spain's blue-chip IBEX 35 index and is also included in prestigious sustainability indices such as the Dow Jones Sustainability Index, FTSE4Good and CDP. In Poland, Budimex is included in RESPECT Index that includes socially responsible companies listed on the WSE (Warsaw Stock Exchange) Main List.

The company's activity is carried out through four business lines:

- Services: efficient provision of urban and environmental services and maintenance of infrastructures and facilities. The services division features the following companies:
- a) In the United Kingdom: via Amey.
- b) In Spain: via Ferrovial Servicios España
- c) Internationally: Via Ferrovial Servicios Internacional and Broadspectrum.
- Toll Roads: promotion, investment and operation of toll roads and other infrastructures. The Toll Roads division features by Cintra.
- Construction: the design and construction of infrastructures in the areas of civil engineering work, building and industrial construction. The construction division features the following companies:
- a) In United States: Webber and Pepper Lawson
- b) In Spain and internationally: via Ferrovial-Agroman and Cadagua.
- c) In Poland: Budimex.
- Airports: airport investment and operation.

Also, in Chile through its subsidiary Transchile Charrúa Transmisión, it owns 100% of the ownership of an electric transmission line in Chile

A commitment to society is one of Ferrovial's distinguishing characteristics. Accordingly, we are committed to Corporate Responsibility, best practices in Quality and the Environment, and the advancement of Innovation. We provide services to large communities to promote socio-economic development, helping improve people's life.

# C0.2

(C0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date		Select the number of past reporting years you will be providing emissions data for
Reporting year	January 1 2019	December 31 2019	Yes	3 years

### C0.3

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(C0.3) Select the countries/areas for which you will be supplying data.

Australia

Canada

Chile

Colombia

France

New Zealand

Oman

Poland

Portugal Puerto Rico

Saudi Arabia

Slovakia Spain

United Kingdom of Great Britain and Northern Ireland

United States of America

### C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response.

EUR

## C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Operational control

### C1. Governance

### C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization?

## C1.1a

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual(s)	Please explain
Chief Executive Officer (CEO)	CEO of Ferrovial is the person of maximum responsibility in the company on issues related to climate change. As part of the board of directors is the spokesperson for all issues related to climate change. In 2019, the Ferrovial Board of Directors, following a favourable report from the Appointments and Remuneration Committee, a new CEO has been appointed. As maximum responsibility of the company for issues related to climate change, the CEO has within his responsibility as well as within his remuneration incentives, an ew CEO has been appointed. As maximum responsibility of the company for issues related to climate change, the CEO has within his responsibility as well as within his remuneration incentives, an ew CEO has been appointed. As maximum responsibility of the company for issues related to climate risks, included within his responsibility as well as within his remuneration of issues related to sustainability Ferrovial has a system called Ferrovial Risk Management (FRM) to identify the risks and opportunities. Climate risks, included within the corporate FRM risk management system, are analyzed and quantified twice a year and "substantial financial or strategic impacts" are identified. The identification of the risk and opportunities is done in a bottom up manner from a contract/asset to company/corporate level until CEO as the ultimate responsible As per the new CEO's request, Ferrovial adopts Horizon 24 Plan to focus on sustainable infrastructure. A strategy for 2002-2024 in which the company will focus on the development, construction and operation of sustainable infrastructure. The commitment to sustainability is materialized in the form of a gradual roadmap to decarbonization by reducing CO2 emissions by 32% in 2030 compared to the 2009 baseline. Ferrovial will implement a new operating model to be a more agile, efficient, and innovative company. One of the initiatives directly promoted by the CEO, to meet the reduction targets endorsed by SBTi by 2030 a powerful plan has been developed called the "
Committee.)	Ferrovial's climate strategy forms part of the company's wider business strategy. In 2019 being part of the new strategy of the company the CEO request a "deep decarbonization plan". As a consequence of this CEO request, the SC decide on the different lines of action as change of carbon use in Poland in the 2030 horizon. Plan that includes commitments of renewable energy, renovation of fleet and reduction emissions by stationary sources. As the same with other climate change issues, since 2008 Ferrovial has a Steering Committee formed by directors of Q&E business units whose responsibilities are to discuss, make decisions, establish requirements and review results on behalf of the Group. Through the president of the Steering committee, the CEO is informed and takes decisions on everything related to climate change as the maximum responsible for these issues at FerrovialThe task of implementing the climate strategy is entrusted to the Quality and Environment Committee. The way to articulate the climate change strategy across all business areas is via Ferrovial's Q&E Steering Committee. In 2008 Ferrovial founded the Quality & Environment Steering Committee whose responsibilities are to discuss, make decisions, establish requirements and review results on behalf of the Group, as well as the Q & E policy implementation group wide. The Committee is formed by directors that form part of the Board of Directors in each business division. The Sustainability director of Ferrovial is the president of the Steering committee and he is the person in charge to transmit to the CEO and the Board of Ferrovial issues related to climate change

# C1.1b

# (C1.1b) Provide further details on the board's oversight of climate-related issues.

with which climate- related	Governance mechanisms into which climate- related issues are integrated	Scope of board- level oversight	Please explain
Scheduled – all meetings	Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding annual budgets Setting performance objectives Monitoring implementation and performance of objectives	<not Applicabl e&gt;</not 	CEO of Ferrovial is the person of maximum responsibility in the company on issues related to climate change. As part of the board of directors is the spokesperson for all issues related to climate change. In 2019, the Ferrovial Board of Directors, following a favorable report from the Appointments and Remuneration Committee, appointed a new CEO. This appointed suppose a reinforcement and push in the fight against climate change, efficiency, innovation and sustainability. Requesting by the CEO all these issues are included in Ferrovial's agenda. Ferrovial's climate strategy is part of the company's wider business strategy. Issues relating to climate change, such as strategy, plans of action, targets, etc are analyzed and discussed by the Board of Directors and the Management Committee. The task of implementing the climate strategy is entrusted to the Quality and Environment Committee, Committee whose responsibilities are to discuss, make decisions, establish requirements and review results on behalf of the Group, as well as the Q & E policy implementation group wide. The Committee is formed by directors that form part of the Board of Directors in each business division. The Sustainability director of Ferrovial is the president of the Steering committee and he is the person in charge to transmit to the CEO and the Board of Ferrovial issues related to climate change

# C1.2

 $(\textbf{C1.2)} \ \textbf{Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.}$ 

Name of the position(s) and/or committee(s)	Reporting line		_	Frequency of reporting to the board on climate-related issues
		Both assessing and managing climate-related risks and opportunities	<not applicable=""></not>	More frequently than quarterly
		Both assessing and managing climate-related risks and opportunities	<not applicable=""></not>	More frequently than quarterly

# C1.2a

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(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored (do not include the names of individuals).

CEO of Ferrovial is the person of maximum responsibility in the company on issues related to climate change. As part of the board of directors is the spokesperson for all issues related to climate change. In 2019, the Ferrovial Board of Directors, following a favourable report from the Appointments and Remuneration Committee, a new CEO has been appointed. As maximum responsibility of the company for issues related to climate change, the CEO has within his responsibility as well as within his remuneration incentives, the fulfillment of the company's strategic plan which includes, among other things, the reduction of emissions of the company's activities, risk monitoring or promotion of issues related to sustainability

As per the new CEO's request Ferrovial adopts Horizon 24 Plan to focus on sustainable infrastructure. A strategy for 2020-2024 in which the company will focus on the development, construction and operation of sustainable infrastructure. The commitment to sustainability is materialized in the form of a gradual roadmap to decarbonization by reducing CO2 emissions by 32% in 2030 compared to the 2009 baseline. Ferrovial will implement a new operating model to be a more agile, efficient, and innovative company.

One of the initiatives directly promoted by the CEO, to meet the reduction targets endorsed by SBTi by 2030 a plan has been developed called "Deep decarbonization Plan" where in addition to committing to the purchase of 100% electricity from renewable sources, also includes other actions such as including electric vehicles and energy efficiency measures in stationary sources.

Ferrovial has a system called Ferrovial Risk Management (FRM) to identify the risks and opportunities. Climate risks, included within the corporate FRM, are analyzed and quantified twice a year and "substantial financial or strategic impacts" are identified. The identification of the risk and opportunities is done in a bottom up manner from a contract/asset to company/corporate level until CEO

As with other climate change issues, since 2008 Ferrovial has a Steering Committee formed by directors of Q&E business units whose responsibilities are to discuss, make decisions, establish requirements and review results on behalf of the Group. The Committee is formed by directors that form part of the Board of Directors in each business division. Their participation is essential, as they are acquainted with business environment and stakeholders related to their business areas. The Committee meets quarterly or more frequently if necessary, making full use of video-calls facilities with the aim of reducing CO2 emissions arising from traveling. Members of Q&E Steering Committee are managing all environmental issues of their business, including climate change, on daily basis.

The decisions and actions of the Q&E Steering Committee arise from the implementation of the Corporate Responsibility policy that is determined by the Board of Directors to the implementation of decisions agreed. The Sustainability director of Ferrovial is the president of the Steering committee and he is the person in charge to transmit and work directly with the CEO and the Board of Ferrovial in all climate change related issues.

In the decision-making process following aspects are taken into account:assessments of the climate change related risk, requirements of countries in which Ferrovial operates, recommendations of governmental bodies and organizations, emission reduction commitment, mitigation and adaptation measures, the success of measures taken, analysis of new contracts and new business opportunities, etc. The Q&E Steering Committee has the power to implement decisions agreed. If these decisions require further investment by the business unit, each business unit is in charge of its implementations.

Some of these principles of the Corporate Responsibility policy are:

- Eco-efficiency. We minimize the environmental impact of our activities by acting responsibly and efficiently in using natural resources, reducing as much as possible the waste and emissions we produce
- Mutual benefit in our relations with suppliers and partners. We encourage mutual benefit in the relationship with our partners and suppliers, in order to achieve the most competitive level in terms of quality and environmental behaviour.
- The value of commitment. We are an organization that carries out its commitments. We fulfil our legal obligations and comply with the law. We meet the agreements endorsed with our customers and users ensuring the quality and safety, as well as the environmental behaviour of our products and services.
- Continuous improvement. We pursue excellence in our business, measuring the key aspects of our activities and implementing management systems for the continuous improvement of our processes, technical skills and performance. We establish open communication channels among different areas and divisions of our company to create synergies and opportunities

## C1.3

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

		Provide incentives for the management of climate-related issues			
	Row 1	Yes			

### C1.3a

# (C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive	Type of incentive	Activity inventivized	Comment
Chief Executive Officer (CEO)	Monetary reward	Emissions reduction project Emissions reduction project Emissions reduction target Behavior change related indicator Company performance against a climate-related sustainability index	CEO of Ferrovial is the person of maximum responsibility in the company on issues related to climate change. As part of the board of directors is the spokesperson for all issues related to climate change. Within your salary there is a part as a variable (incentives) where reference is made to compliance with the strategic plan of the company where they are included, for example, the establishment of the objectives endorsed by SBTi, emission reduction projects, review of objectives, stay In the main sustainability indexes.
Chief Sustainability Officer (CSO)	Monetary reward	Emissions reduction target Energy reduction project Behavior change related indicator Company performance against a climate- related sustainability index	CSO as part of the top executive levels at the corporate and business units have part of their salary set as a variable (incentives) and this is linked to the objectives achieved (individual and collective performance indicator). The objectives depend on the level at the corporate and business unit. In particular, one of the objectives is to achieve Ferrovial's emission reduction targets. Other objectives related to climate change are: -Establishment of reduction objectives supported by SBTi - Stay in the main sustainability indexes - Contracting of energy efficiency contracts - Classification and reduction of waste - Reduction of water consumption; Promotion of the Carbon Pricing program, Compliance of the QE policy.
Chief Operating Officer (COO)	Monetary reward	Energy reduction project Energy reduction target	Top and medium executive levels at the corporate and business units have part of their salary set as a variable (incentives) and this is linked to the objectives achieved (individual and collective performance indicator). The objectives depend on the level at the corporate and business unit. In particular, one of the objectives is to achieve Ferrovial's energy reduction targets and projects- Contracting of energy efficiency contracts - Classification and reduction of waste - Reduction of water consumption
All employees	Monetary reward	Emissions reduction project	Annually Ferrovial evaluates the performance of its employees. This process aims to assess and communicate to employees how they are carrying out their work. All Ferrovial employee units have part of their salary set as a variable (incentives) and this is linked, among other things, related with climate change issues, such as position in ratings, which implies aspects related to climate change. Personal performance is valued in relation to these aspects. This is the starting point for defining Individual Development Plan in order to promote the professional growth. The development planning that accompanies this process permits the establishment of training and development actions aligned with the strengths and improvement areas identified during the assessment

# C2. Risks and opportunities

# C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities? Yes

# C2.1a

# (C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	1	the period corresponds with years 2019 to 2020
Medium-term	1	10	the period corresponds with years 2020 to 2030
Long-term	10	30	the period corresponds with years 2030 to 2050

# C2.1b

We define substantive impact as that will go up to CEO level in the risk management system of Ferrovial . The KPis used to define whether an impact is substantive or not, are the impact and probability of the risks & opportunities identified in the system. Achieving Ferrovial's strategic and operating objectives requires effective risk management. Ferrovial has a Risk Control and Management Policy approved by the Board of Directors

Ferrovial has a system called Ferrovial Risk Management (FRM) to identify the R&O led by the Management Committee and implemented in all the company's business areas under the regular supervision of the Audit and Control Committee of the Board of Directors. The identification of the R&O is done in a bottom up manner from a contract/asset to company/corporate level.

This process aims to identify risk events sufficiently in advance and assess them based on their probability of occurrence and their possible impact on strategic objectives, including corporate reputation. In this way, Ferrovial can take the most suitable management and protection measures depending on the nature and location of the risk.

Using a common metric, two evaluations of the identified risk events are carried out: an inherent one, prior to the specific control measures implemented to mitigate the risk, whether its impact or probability, and a residual, the specific control measures. Both permitted evaluations, in addition to determining the relative importance of each risk event in the risk matrix, evaluate the effectiveness of the measures implemented for their management. So the managers in a contract/asset identify the risks which threaten their activity, business target and infrastructures. These risks go on to the up level until the CEO with the idea to consolidate the risks from the contract/asset level to the corporate/company level. Ferrovial identifies within FRM as the most important risk those that within the management system are relevant risks for the business in such a way that they affect the strategy or plan of the company. Then, the most important of identified risks will go up to next level of responsibility in where the person in charge will assess them and identify others news and so on until the CEO level.

Under the principle of continuous improvement, the risks identified through the corporate risk identification and assessment system (FRM) are revalued twice a year, and the status of achievement of the established reduction targets and deviations that could exist are reviewed in order to establish the appropriate corrective measures. Ferrovial has long-term infrastructure. For this reason, R&O are analyzed in the short, medium and long term.

We can define the substantial strategic impact of all those factors that can affect the development of the strategy. For example, in 2019 requesting by the CEO, Ferrovial adopts Horizon 24 Plan to focus on sustainable infrastructure. A strategy for 2020-2024 in which the company will focus on the development, construction and operation of sustainable infrastructure. The commitment to sustainability is materialized in the form of a gradual roadmap to decarbonization by reducing CO2 emissions by 32% in 2030 compared with the 2009 baseline. Exposure to climate change risks from our products and / or services may affect the company's development plans and therefore its strategy.

In addition to the aforementioned risks, Ferrovial assesses and monitors emerging risks that may adversely affect the attainment of its strategic objectives and others that, in spite of their low probability of occurrence, would cause significant adverse impacts on business objectives

C2.2

### (C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered

Direct operations

Upstream

Downstream

### Risk management process

Integrated into multi-disciplinary company-wide risk management process

### Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term

Medium-term

Long-term

#### **Description of process**

Achieving Ferrovial's strategic and operating objectives requires effective risk management. Ferrovial has a Risk Control and Management Policy approved by the Board of Directors Ferrovial has a system called Ferrovial Risk Management (FRM) to identify the R&O led by the Management Committee and implemented in all the company's business areas under the regular supervision of the Audit and Control Committee of the Board of Directors. The identification of the R&O is done in a bottom up manner from a contract/asset to company/corporate level. So the managers in a contract/asset identify the risks which threaten their activity, business target and infrastructures. These risks go on to the up level until the CEO with the idea to consolidate the risks from the contract/asset level to the corporate/company level. Then, the most important of identified risks will go up to next level of responsibility in where the person in charge will assess them and identify others news and so on until the CEO level. Under the principle of continuous improvement, the risks identified through the corporate risk identification and assessment system (FRM) are revalued twice a year, and the status of achievement of the established reduction targets and deviations that could exist are reviewed in order to establish the appropriate corrective measures. Ferrovial has longterm infrastructure. For this reason, R&O are analyzed in the short, medium and long term. The identified risks are classified into groups according to their nature in order to facilitate their control, monitoring and assurance. Thus, the main groups are: - Regulatory: Risk of non-compliance with the regulatory framework applicable to the company's activities. - Financial: Economic impact of the new regulation on climate change, due to the increase in operating costs due to the increase in rates on fossil fuels and the appearance of new markets for emission rights. The implementation of efficiency measures and the electrification of demand reduce the exposure to this risk. Operational: Catastrophic events derived from weather changes that may cause damage to the company's infrastructure and operation, causing temporary loss of revenue. - Reputational: Loss of credibility due to non-compliance with the established objectives and communicated to the stakeholders With the aim to identify risks relevant to the business, there is an evaluation to identify if the risk is applicable, significant and concerning: - Applicable: Risks may materialize in the business. - Significant: Risk materialization would lead to a relevant negative impact on meeting business objectives. - Concerning: Having taken into account the controls applied, risk requires special attention and monitoring. Regarding the substantial financial impact of the identified risk in the different climate scenarios (considering as a substantial financial impact that is considered relevant by the business in such a way that it is analyzed by the FRM first and CEO) it is considered that the diversification of our activity towards "low carbon" activities will facilitate us the acquisition of new types of financing. In order to quantify those financial impacts Ferrovial defines and assesses the risk potential impacts and translate to monetary fed up. Simultaneously to this risk identification process associated with climate change, Ferrovial has identified market opportunities for every identified climate change risk that can offer the company a competitive advantage. The risks identified as applicable and significant, regardless of whether at present it is concerning or not, should be assessed. The scale used is designed to perform two risk assessments: inherent and residual, in accordance with the following definition: - Inherent risk: risk without taking into account management action to reduce the impact or likelihood of such risk. - Residual risk: risk that remains after the adoption of preventive measures. Assessment involves three components: - Impact: The possible impact on objectives, should risk occur. Could be on one, two or three of the mentioned objectives - Likelihood: The probability of risk occurring. in accordance with the following scale: High, Medium, Low and Remote. - Exposure: Exposure understood as risk regularity (frequent or infrequent). In order to assess the Impact, three objectives could be influenced: - Business continuity and growth (long term business plan), - Profitability and cash flow, - Corporate reputation In the evaluation of R&O, the value chain is considered. Aspects such as emission policy restrictions. carbon taxation, water restrictions, land use restrictions or incentives, and changes in the demand and supply of services or interruption of operations are considered. Associated to the risks there are measures of management and reduction of the same. The contracting of risk insurance is part of these measures. Following the recommendations of the TFCD a global review of R&O is being carried out considering several climate scenarios. This revision supposes a redefinition of the risks in Transition and Physics Transition risk, for example, in the construction area Budimex detects a possible risk from an increase in the prices of raw materials or an increase in the prices of fuels in a way that can increase the costs of works / contracts and reduce margins over the medium term for the company. Ferrovial manages this risk by putting contingency measures due to the possible increase in carbon and the rates associated with its use, the change for another fossil fuel is studied as a contingency measure, so that if the risk materializes the impact is not very high. Physical Risk, risks refer mainly to possible physical damages in infrastructure and temporary stoppage of the activity, decrease of productivity in extreme climatic conditions. Ferrovial Airports identifies these risks in its FRM system due to the exposure we have in airports in which Ferrovial is the major shareholder. As a consequence of this identification, contingency measures are proposed, such as a "winter resilience plan". Recent history shows the incredibly severe reputational and economic impacts of adverse weather events to airport activity and management in the UK. Science has pointed to an increase in the frequency and volatility of extreme weather conditions This risk management process has been subject to independent verification that confirms the high degree of alignment with the good practices and principles within the 2017 COSO ERM framework, particularly aspects related to governance and culture, connection with the business strategy and operating objectives or performance

C2.2a

		Please explain
	& inclusion	
Current regulation	Relevant, always included	Most of the Ferrovial UK subsidiaries and Heathrow Airport Holdings (HAH) are directly involved in the Carbon Reduction Commitment (CRC).CRC involves any activity consuming more than 6,000 MWh/year of electricity. This scheme based on purchasing allowances to offset emissions. Allowances can either be bought at annual fixed-price sales, or traded on the secondary market. One allowance must be surrendered for each tonne of CO2 emitted. Ferrovial is exposed to a range of risk factors arising in countries where it carries out its activities and inherent to the sectors in which it operates. The company seeks to detect and assess risks, and implement timely control measures to mitigate their probability of occurrence and/or potential impact according to the strategic objectives. Ferrovial permanently monitors the regulatory and legislative processes that may affect its activities, as well as the political movements that may occur, in order to anticipate possible changes in time for proper management. Ferrovial has a Risk Control and Management Policy that was approved by the Board of Directors to establish the acceptable risk and tolerance level per risk factor. The Ferrovial Risk Management (FRM) is the company's risk and opportunities identification and assessment process, which is supervised by the Board of Directors and Management Committee, and implemented in all business areas In order to manage transition R&O the FRM included them as strategic type (such as, cap ™ schemes, changes in the regulatory framework like CRC).
Emerging regulation	Relevant, always included	Ferrovial knows than Fuel/energy taxes and regulations will increase emissions costs and price. This situation could derive in higher operating costs in the company. Ferrovial permanently monitors the regulatory and legislative processes that may affect its activities, as well as the political movements that may occur, in order to anticipate possible changes in time for proper management. Ferrovial has a Risk Control and Management Policy that was approved by the Board of Directors to establish the acceptable risk and tolerance level per risk factor. The Ferrovial Risk Management (FRM) is the company's risk and opportunities identification and assessment process, which is supervised by the Board of Directors and Management Committee, and implemented in all business areas in order to manage transition R&O the FRM included them as strategic type such as, cap ™ schemes, changes in the regulatory framework, market situation).
Technology	Not relevant, explanation provided	Ferrovial doesn't have a specific business where risks associated with technological improvements or innovations that support the transition to a lower-carbon, energy-efficient economic system because we don't have own technology research. Ferrovial has machinery renewal programs every five years, where renewal by more efficient machines is contemplated according to market availability, such as the case of hybrid construction machinery in Poland. Due to the fact that the frequency of the revision of the machinery renewal program is high,it is not considered relevant since the probability of the impact is low and therefore it is not a substantial financial impact. (probability and impact are low).
Legal	Relevant, always included	Ferrovial considers the legal risks associated with climate change are relevant and always are include in our analysis. While it is true, in recent years, being transparent in the communication of claims, we have not had any associated with climate change in any of the cases. This risk is included in the risk matrix of the company and within the FRM system. Finally, January 31, 2020 saw the consummation of the United Kingdom's exit from the European Union and the start of an eleven-month transitional period in which the two parties are to reach a definitive agreement for the exit and future collaboration. The consequences of the type of exit agreement could affect the profitability and value-creation capability of Ferrovial's assets in the country. In the case of Heathrow Airport, the principal asset in which Ferrovial holds a share in the United Kingdom, this uncertainty could impact the progress of the project for the airport's expansion. Regarding the Heathrow 3rd runway expansion, on February 27, 2020, the Court of Appeals concluded that the government should have taken the "Agreement of Paris" into account in its decision to designate "the declaration of the National Airport Policy". The process is currently paralyzed pending review by the government. It could be considered a legal risk claims associated with a possible breach within the law of energy transition. Ferrovial is exposed to a range of risk factors arising in countries where it carries out its activities and inherent to the sectors in which it operates. The Ferrovial Risk Management (FRM) is the company's risk and opportunities identification and assessment process, which is supervised by the Board of Directors and Management Committee, and implemented in all business areas In order to manage transition R&O the FRM included them as strategic type
Market	Relevant, always included	Ferrovial could face cost increases in energy inputs due to existing fixed price in contracts, and this fact will reduce margins over the medium term for the company. For example, long term demand forecasts impacted by Traffic Scenarios Emerging from UK's Air-Travel Emissions Reductions Plans. The company is exposed to a range of risk factors arising in countries where it carries out its activities and inherent to the sectors in which it operates Some Ferrovial's business areas (Cintra) could be impacted by the progressive modal shifts to reduce emissions. Toll roads managed by Cintra could be reduced its traffic levels by users switching to railway and other low emissions transport modes. The company seeks to detect and assess risks, and implement timely control measures to mitigate their probability of occurrence and/or potential impact according to the strategic objectives. The company seeks to detect and assess risks, and implement timely control measures to mitigate their probability of occurrence and/or potential impact according to the strategic objectives. Moreover, new business opportunities can be identified because of the effective and efficient management of certain risks. Ferrovial permanently monitors the regulatory and legislative processes that may affect its activities, as well as the political movements that may occur, in order to anticipate possible changes in time for proper management. Ferrovial has a Risk Control and Management Policy that was approved by the Board of Directors to establish the acceptable risk and tolerance level per risk factor. The Ferrovial Risk Management (RM) is the company's risk and opportunities identification and assessment process, which is supervised by the Board of Directors and Management Committee, and implemented in all business areas In order to manage transition R&O the FRM included them as strategic type (such as, cap & trade schemes, changes in the regulatory framework, market situation).
Reputation	Relevant, always included	We estimate more than 90% of SRI analyst and research agencies covering Ferrovial are considering Climate Change as a key driver of the performance of the company. We believe that efforts to fight climate change is appreciated by investors, analysts and customers. Trends on sustainable investing are not just related to stock markets, but increasingly focused on particular projects (i.e. large infrastructure projects). Most of the infrastructure investors and funds are increasingly considering these drivers for making decisions around their portfolios of projects. Ferrovial's CO2 emissions performance has improved over last years, positioning the firm as one of the most sustainable companies within our activity sectors. In this context, Ferrovial performance on CO2 should be considered as key for improving our reputation, and the ability to attract capital within SRI markets. Ferrovial believes that a noncompliance with our targets in order to combat climate change and continue improving day by day may have a negative impact on Ferrovial reputation, ratings, share value and revenues. The company seeks to detect and assess risks, and implement timely control measures to mitigate their probability of occurrence and/or potential impact according to the strategic objectives. Moreover, new business opportunities can be identified because of the effective and efficient management of certain risks. Ferrovial is exposed to reputational and ethical risk. To mitigate the company has a Compliance Model that is developed under the current legislation.
Acute physical	Relevant, always included	The set of extremes temperatures, snow, ice, extreme precipitation, flooding and tropical cyclones can impact the operating performance of our infrastructures for example in toll roads managed by Cintra where these losses can cause physical damage on assets and infrastructure closure either because they have to be repaired or because they cannot operate. Recent history shows the incredibly severe reputational and economic impacts of adverse weather events to airport activity and management in the UK The Ferrovial Risk Management (FRM) is the company's risk and opportunities identification and assessment process, which is supervised by the Board of Directors and Management Committee, and implemented in all business areas. In order to manage physical R&O the FRM included them as operational type (such as, extreme precipitation, flooding and tropical cyclones.)
Chronic physical	Relevant, always included	Adverse weather events increase in frequency, Science has pointed to an increase in the frequency and volatility of weather conditions are real. The set of extremes sustained temperatures, snow, ice, changed in precipitation patterns and extreme variability in weather patterns, rising mean temperatures can impact the operating performance of our infrastructures. These losses can cause physical damage on assets and infrastructure closure either because they have to be repaired or because they cannot operate. The company seeks to detect and assess risks and implement timely control measures to mitigate their probability of occurrence and/or potential impact according to the strategic objectives. Moreover, new business opportunities can be identified because of the effective and efficient management of certain risks. Ferrovial assesses and monitors the status of emerging risks that could negatively affect its ability to meet strategic targets or risks that, despite their low likelihood of occurrence, could nevertheless have negative effects on its business targets Environmental risks are monitored, mainly those related to the effects of climate change. Ferrovial has a Risk Control and Management Policy that was approved by the Board of Directors to establish the acceptable risk and tolerance level per risk factor. In order to manage physical R&O the FRM included them as operational type.

# C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business? Yes

## C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

## Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

### Primary potential financial impact

Increased indirect (operating) costs

### Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

#### Company-specific description

Most of the Ferrovial UK subsidiaries and Heathrow Airport Holdings (HAH) are directly involved in the Carbon Reduction Commitment (CRC). Ferrovial has 25 % share of HAH. CRC involves any activity consuming more than 6,000 MWh/year of electricity. This scheme based on purchasing allowances to offset emissions. Allowances can either be bought at annual fixed-price sales, or traded on the secondary market. One allowance must be surrendered for each tonne of CO2 emitted. The allowance price in Phase 1 has been set at £12 per tonne of CO2. This scheme came into force in 2013 and has financial implications for Ferrovial in terms of cash-flow. Currently the allowance price is £18.30 Ferrovial staff has been taking part in several taskforces in order to help the UK government on the CRC implementation and we are improving the energy efficiency of our infrastructures.

#### Time horizon

Short-term

#### Likelihood

Virtually certain

### Magnitude of impact

Low

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

29072

## Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

#### Explanation of financial impact figure

Considering the emissions from airports with a correction factor of 25% (which is the share that Ferrovial has on airports in the UK) and taking as the price of carbon 18.30 GBP for electricity emissions (which are 1345 tCO2e) we obtain a financial impact of 24614 GBP ( $24614/0.8467 = 29072 \in$ ). We have used 1 euro = 0.8467 GBP"

### Cost of response to risk

139336863

# Description of response and explanation of cost calculation

Ferrovial and HAH staff have been taking part in several workshops and taskforces. In 2019 the most important are: - Carbon Reduction Commitment (CRC). Ferrovial is ready to leader this trading scheme, and has been supporting the Government expectations on such matter. - HAH is leading the "Green Aviation" initiative and has been working with airlines to publish the road carbon footprint roadmap for sustainable aviation too. Trends within aviation sector are aimed at making aircrafts more efficient and fuels less polluting (Singapore Airlines, Airbus, NATs). On the other hand there is ambitious environmental planning, focused on reducing the carbon footprint and improving the energy efficiency of airport terminals and facilities. Investment in energy efficient technology and sourcing more renewable energy as well as demand management. Group staff resources dedicated to taking part in the mentioned committees, taskforces and CRC monitoring: 190,000£ per year .Heathrow has been powered by 100% renewable electricity and since June 2018, the heating for Terminal 2 has been provided from either biomass or renewable gas. In 2018, 6.3% of the energy we consumed at Heathrow was generated at our Energy Centre using renewable sources. The winter of 2018 was colder than previous years which slightly increased the gas and oil consumption for heating in some areas. Investment in energy efficient technology and energy from renewable sources 117,786,522 £. Cost total = 190,000 + 117,786,522 £ (139,336,863 €) 1 euro = 0.8467 GBP

### Commen

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

### Identifier

Risk 2

### Where in the value chain does the risk driver occur?

Direct operations

# Risk type & Primary climate-related risk driver

Chronic physical

Changes in precipitation patterns and extreme variability in weather patterns

# Primary potential financial impact

Increased direct costs

### Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

## Company-specific description

Adverse weather events increase in frequency, in airports in which Ferrovial (HAH airports) is the major shareholder. Recent history shows the incredibly severe reputational and economic impacts of adverse weather events to airport activity and management in the UK. Science has pointed to an increase in the frequency and volatility of extreme weather conditions.

## Time horizon

Long-term

## Likelihood

Likely

### Magnitude of impact

Medium

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

1200161

#### Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

#### Explanation of financial impact figure

Financial implications are related to (a) increase of costs related to operating the airports (b) claims of passenger due to delays and other inconveniences, and (c) reputational impact on HAH's license to operate the airports. We estimate the cost related to problems caused by the weather, such as snow, is 1.1 million £ /day. (The financial cost is calculated as the cost of losses from the closure of the airport per day. Ferrovial, as the majority shareholder of Heathrow, has a 25% share, so the potential financial impact of this risk is 25% of that cost. Losses due to a lack of operation at the airport are estimated at £ 4.4 million / day so the risk to rail would be £ 1.1 million / day (4.4 \* 25% = £ 1.1 million / day; 1,299,161 €) 1 euro = 0.8467 GBP

#### Cost of response to risk

42518011

#### Description of response and explanation of cost calculation

Since 2011, Heathrow airport (managed by Ferrovial - HAH) implements a programme called "Winter Resilience Programme" to examine how the airport could respond more effectively to future severe weather events. In 2018, HAH has continued investing in new vehicles and equipment, in aircraft deicer storage and facilities, in IT improvements and improving operational centers with the idea to avoid delays and airport closure due to snow. Furthermore, HAH continued working on: 1 Enhance snow plan 2 Review aircraft de-icing processes 3 Regular snow plan review 4 Early collaboration on contingency planning 5 Dynamic management of consumables 6 Strengthen crisis management process 7 Define clear escalation triggers 8 Strengthen capacity constraints group 9 Sustainable crisis resourcing 10 Enhance flight information and passenger communications 11 Establish a single airport command/control centre 12 Improve situational awareness 13 Jointly strengthen current welfare arrangements with airlines and CAA 14 Routinely plan and test welfare arrangements. Winter Resilience Programme. Such effort has focused on different fields: - 11 m£ in new vehicles and equipment - 10 m£ in aircraft de-icer storage and facilities - 8 m£ in IT improvements - 7 m£ improving operational centers - further resources were made available for maintenance, equipment upgrades and training purposes.total = 11+10+8+7 = 36 million GBP

#### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

#### Identifier

Risk 3

### Where in the value chain does the risk driver occur?

Direct operations

# Risk type & Primary climate-related risk driver

Acute physical

Increased severity and frequency of extreme weather events such as cyclones and floods

### Primary potential financial impact

Increased direct costs

## Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

# Company-specific description

The set of extremes temperatures, snow, ice, extreme precipitation, flooding and tropical cyclones can impact the operating performance of our infrastructures (Toll Roads managed by the Ferrovial's subsydiary Cintra). These losses can cause physical damage on assets and infrastructure closure either because they have to be repaired or because they cannot operate.

## Time horizon

Short-term

# Likelihood

More likely than not

# Magnitude of impact

Medium

## Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

# Potential financial impact figure (currency)

15300000

# Potential financial impact figure - minimum (currency)

<Not Applicable>

## Potential financial impact figure - maximum (currency)

<Not Applicable>

# Explanation of financial impact figure

For financial impact, Ferrovial calculate an average price of road construction cost in 15.30 M€ (this calculation has been based in the toll road D4 R7 in Slovakia). This estimate contemplates, the worst case scenario , the total replacement of the average price of km built by toll road.

### Cost of response to risk

3416498

### Description of response and explanation of cost calculation

Ferrovial has a system called FRM to identify the risks. So the managers in a contract/asset identify the risks which threaten theirs activity, business target and infrastructures. These risks go on to the up level until the CEO with the idea to consolidate the risks. Twice a year, the risks and opportunities are reviewed because the market conditions change continuously (legislation changes, new trends, ...).In 2019, toll roads managers identified risks could impact to the operating performance of the infrastructures. So, in a toll road physical risks could cause physical damage on assets and infrastructure closure because they have to be repaired or because they cannot operate. As an ex., the toll road in Colombia called "Ruta del Cacao" has identified risks related to physical risks like floodings and cyclones. Ferrovial's Corporate Risk Department hired the best insurance protection to cover property damage and business interruption. Policies cover these risks for an average of 75 m€ by highway a year. Furthermore, Ferrovial's Corporate Risk Department established control measures based on the set of procedures and emergency plans that describe how to act in the event of risk. Also, Ferrovial is covering the impact over environment from this kind of events with a limit around 60M€/claim. Control measures based on procedures and emergency plans are valued at 16,498 € and the annual insurance premium is around 3,4 m€. Total cost = 16,498 + 3,400,000 = 3,416,498

#### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected. Control measures based on procedures and emergency plans are valued at 16,498 € and the annual insurance premium is around 3,4 million €. Total cost = 16,498 + 3,400,000 = 3,416,498

#### Identifier

Risk 4

#### Where in the value chain does the risk driver occur?

Direct operations

### Risk type & Primary climate-related risk driver

Reputation

Increased stakeholder concern or negative stakeholder feedback

### Primary potential financial impact

Decreased revenues due to reduced demand for products and services

### Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

#### Company-specific description

SRI players take into account several environmental-related issues of the companies under research. According to our own assessment, global investment according to SRI criteria amounted to €9.4 tr. in European markets, assets under management implementing core SRI criteria total around €4 tr. We believe that efforts to fight climate change is appreciated by investors, analysts and customers. Trends on sustainable investing are not just related to stock markets, but increasingly focused on particular projects (i.e. large infrastructure projects). We estimate more than 90% of SRI analyst and research agencies covering Ferrovial are considering Climate Change as a key driver of the performance of the company. Moreover, most of the infrastructure investors and funds are increasingly considering these drivers for making decisions around their portfolios of projects. Ferrovial's CO2 emissions performance has improved over last years, positioning the firm as one of the most sustainable companies within our activity sectors. In this context, Ferrovial performance on CO2 should be considered as key for improving our reputation, and the ability to attract capital within SRI markets. Ferrovial believes that a noncompliance with our targets in order to combat climate change and continue improving day by day may have a negative impact on Ferrovial reputation, ratings, share value and revenues

### Time horizon

Long-term

# Likelihood

Unlikely

# Magnitude of impact

Medium-low

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

# Potential financial impact figure (currency)

794200000

## Potential financial impact figure - minimum (currency)

<Not Applicable>

## Potential financial impact figure - maximum (currency)

<Not Applicable>

# Explanation of financial impact figure

The financial repercussions associated with this risk are: - The loss of share value: 260 million€. Whereas share value decrease by 2% due to reputational issues. - The loss of business: 534.2 million €. The business offered by Ferrovial is "Low Carbon" infrastructures. Ferrovial performance on CO2 should be considered as key for improving our reputation, and the ability to attract capital within SRI markets and new contracts. We consider annual business loss can represent 5 % of annual turnover. total estimation = 794,2 M€

### Cost of response to risk

596010000

# Description of response and explanation of cost calculation

Since 2008 Ferrovial has developed and implemented an outstanding climate strategy based on:- Measuring and managing Ferrovial's carbon footprint. We use a "Carbon Footprint tool" to report and calculate GHG- Setting up reliable reduction targets-Implementing GHG reduction measures- Improving the ability to manage climate change driven risks, as well as anticipating opportunities in this area-permanently monitoring and updating the climate strategy of Ferrovial-participation in forums and analyses and evaluates new trends day by day in relation Climate Change to develop them in the company.-Ferrovial maintains channels of communication with the above mentioned stakeholders (investors, analysts, research agencies, etc.), managing their inputs and expectations, and incorporating some of them into its strategy and action plans.-Ferrovial has been listed in DJSI and FTSE4Good ratings and is in a leader position in CDP- Since 2017, Ferrovial becomes a member and core-partner of Climate-KIC.In 2017, Ferrovial is the first Spanish company, to achieve its emission reduction targets certified by the SBTi. The costs estimated per year: -1,015,000 €: staff who work on Climate Change- 4.2 €: staff who development new business related Climate Change - 590.71 m€: To implement emission reduction measures - 60,000€: to maintain Carbon Footprint software and verify Carbon footprint by a third party - 125,000€: o be member and core-partner. Climate-Kic Total = 596,010,000

## Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

#### Identifier

Risk 5

Where in the value chain does the risk driver occur?

Unstream

Risk type & Primary climate-related risk driver

Market

Increased cost of raw materials

### Primary potential financial impact

Increased direct costs

Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

### Company-specific description

Ferrovial could face cost increases in energy inputs due to existing fixed price in contracts, and this fact will reduce margins over the medium term for the company.

#### Time horizoi

Long-term

#### Likelihood

Likely

### Magnitude of impact

Medium

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

1850000

### Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

# Explanation of financial impact figure

Financial implications are mainly related to the reduction of margins over the medium term, in fixed-price contracts in Ferrovial. An extra cost in electricity and fuels has been evaluated by 1.85 million e per year for all Ferrovial. (1.85 million euros = 1.629 million euros in fossils fuels consumption + 0.221 million euros in electricity consumption. Energy cost have been calculated taking into account energy prices in Spain)

### Cost of response to risk

116900000

## Description of response and explanation of cost calculation

Ferrovial has implemented measures to reduce electricity and fuel consumption and reduce emissions. Some of these measures are: - Incorporation of energy efficiency criteria in procurement. In 2019, 59 % of the electricity purchased is renewable. 87345 tCO2e were avoided thanks to the purchase of renewable electricity. In 2019, 5,498 t CO2 eq were avoided thanks to the use of alternative vehicles. - To improve vehicle fleets and training programmes, and specific training to promote efficient driving (especially in the activities of Construction and Services). In 2019, Ferrovial Agroman continued working to reduce emissions focusing on reducing earth transport distances within sites using trucks or tubs. - Development of technology and processes to generate electricity and other fuel from renewable sources. The landfills generated 1,001,874 GJ of energy. The biogas collection process not only avoided the emission of GHG into the atmosphere but also generated energy from renewable sources. - Inclusion of energy efficiency measures in buildings used and infrastructures Between 2009 and 2019 there was a 18 % of reduction in tonnes of CO2 equivalent emitted by the headquarters. The implementation of these measures involves investments around 116,9 Million €.(93.52 million € corresponds to development of technology measures in landfills and treatment plants and 23.38 million € with another energy efficiency measures)

### Commen

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected

# Identifier

Risk 6

# Where in the value chain does the risk driver occur?

Downstream

### Risk type & Primary climate-related risk driver

Legal Exposure to litigation

# Primary potential financial impact

Decreased revenues due to reduced demand for products and services

# Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

### Company-specific description

Long term demand forecasts impacted by Traffic Scenarios Emerging from UK's Air-Travel Emissions Reductions Plans. Meeting the UK aviation emissions reductions roadmap 2050 is likely to result in changes to the air travel intensities of different airports in different ways. Balance between long-haul and domestic flights could change under this approach, penalizing less passengers in AGS airports of Ferrovial.Regarding the Heathrow 3rd runway expansion, on February 27, 2020, the Court of Appeals concluded that the government should have taken the "Agreement of Paris" into account in its decision to designate "the declaration of the National Airport Policy". The

process is currently paralyzed pending review by the government.

### Time horizon

Long-term

#### Likelihood

About as likely as not

### Magnitude of impact

Medium-high

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

24000000

### Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

## Explanation of financial impact figure

Financial implications are related to the decrease on the number of flights and passengers in AGS airports. According to the UK aviation emissions reductions roadmap 2050 (35% below in 2050), AGS airports (less than 15% of the Ferrovial's airport assets in UK) could reduce the number of passengers until 40% in 2050 which will mean a lost of 24 million€ of revenues.

### Cost of response to risk

1123893

### Description of response and explanation of cost calculation

Ferrovial Airports are working with many air sector leaders (aircraft manufacturers, airlines) in order to support new technologies and air traffic management techniques to reduce GHG emissions. According to that, Ferrovial is leading the "Green Aviation" and "Green Heathrow" initiatives. In specific, in 2017, we maintained monthly meetings dedicated to this topic. Forecast analysis have been implemented under several traffic and regulatory framework scenarios. Cost of advisory experts and consulting has been evaluated by 951,600£ (1123893 €) since 2011 1euro = 0.8467 GBP

#### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

#### Identifier

Risk 7

### Where in the value chain does the risk driver occur?

Direct operations

## Risk type & Primary climate-related risk driver

Reputation Other, please specify (Reduction in capital availability)

# Primary potential financial impact

Other, please specify (Reduction in capital availability)

## Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

## Company-specific description

The current low price of carbon discourages investment in rehabilitation. Ferrovial is promoting actions to establish real carbon prices in the market that encourages energy efficiency initiatives and guarantees the company's future investments. Ferrovial has developed a strategy on R&D focused on energy efficiency in order to position Ferrovial technology and know-how as a leading player in the emerging energy-efficiency market.

### Time horizon

Medium-term

### Likelihood

Likely

### Magnitude of impact

Medium-high

# Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

# Potential financial impact figure (currency)

300000000

## Potential financial impact figure - minimum (currency)

<Not Applicable>

# Potential financial impact figure - maximum (currency)

<Not Applicable>

### Explanation of financial impact figure

The expectative on energy efficiency refitting of buildings and homes has been evaluated around 10,000 M€ in 2020 in the global market. Ferrovial construction and ESCO subsidiaries has been assessed around 3% of this market. Thus, low carbon prices can influence seriously on an decrease of Ferrovial construction and ESCO sales around 300 M€ in 2020.

## Cost of response to risk

46000000

#### Description of response and explanation of cost calculation

Ferrovial is promoting actions to establish real carbon prices in the market that encourages energy efficiency initiatives and guarantees the company's future investments. Has developed strategy on R&D focused on energy efficiency in order to position our technology and know-how as a leading player in the emerging energy-efficiency market. Ferrovial's statements, on this issue, have been focused on asking for a certain future on carbon prices, as well as a reliable and strong carbon market at a global scale. As a part of Ferrovial lobbying on this particular matter, Ferrovial has endorsed the statements of the Prince of Wales's Corporate Leaders Group on Climate Change, amongst other initiatives. Ferrovial experts are involved in several taskforces dedicated to advise Governments and regulatory bodies on those issues. Since 2015Ferrovial presides Spanish Green Growth Group that is collaborating with the Spanish Government in the next roadmap towards an economy with low emissions. As a part of this strategy there is a long-term agreement with the MIT (USA) and since 2017, Ferrovial becomes a member and core-partner of Climate-KIC, public-private innovation partnership focused to mitigate and adapt to climate change. Investments in the Ferrovial R&D strategy on this matter rose up to 45 € million in 2019. Cost of the Ferrovial's experts involved in taskforces, as well as the external advisory on this particular matter has been around 1€ million in 2019. Total=46M€

#### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

#### Identifier

Risk 8

### Where in the value chain does the risk driver occur?

Downstream

### Risk type & Primary climate-related risk driver

Emerging regulation

Other, please specify (Changing customer behavior)

### Primary potential financial impact

Other, please specify (Reduced demand for goods and/or services due to shift in consumer preferences)

#### Climate risk type mapped to traditional financial services industry risk classification

<Not Applicable>

### Company-specific description

Fuel/energy taxes and regulations will increase emissions costs and price. This situation could reduce demand for road travel and increase modality switching. Some Ferrovial's business areas (Cintra) could be impacted by the progressive modal shifts to reduce emissions. Toll roads managed by Cintra could be reduced its traffic levels by users switching to railway and other low emissions transport modes.

### Time horizon

Long-term

### Likelihood

More likely than not

## Magnitude of impact

Medium-high

## Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

# Potential financial impact figure (currency)

27800000

### Potential financial impact figure - minimum (currency)

<Not Applicable>

# Potential financial impact figure - maximum (currency)

<Not Applicable>

# Explanation of financial impact figure

Financial implications of the reduction on road traffic consists in lower capital streams in Cintra. The financial implications for Cintra, and therefore, for Ferrovial has been estimated in a loss of the EBITDA of this business area, factor that can affect the development of the company's strategy. In 2019 been evaluated in 27,8 M€. .Calculated as loss of operating benefits associated with the use of concessions, taking into account, among other things, IMD.

### Cost of response to risk

339600000

## Description of response and explanation of cost calculation

Cintra is building a new business model based on a "Carbon neutral Highway Concession" scheme; several R&D projects are currently on-going with the aim of developing the technologies needed to make this business model real. In USA, Cintra operates the first toll road (NTE - North Tarrant Express) that is "carbon neutral", based on tolls without barrier and dynamic rate, guarantee speed, safety and environmental improvement to drivers. This alternative adds a solution to the traffic congestion of previously existing roads. The study of comparison of scenarios "before (previously existing route)" and "the after (existing route and NTE)" concludes that the new scenario is lower emitter as a whole to avoid emissions from congestion. These projects have received awards that recognize the contribution to improving the local economy and the quality of life of people who use this highway daily, and for its advocacy of environmental protection. Ferrovial R&D investment in "Intelligent infrastructures", as the "Carbon neutral Highway Concession" scheme lauched by Cintra, raised to 45 M€, in 2019, and 339,6 M€ since 2012. (calculated as the loss of value of the business model taking into account your investment in innovation, 32.6+32.9+42.6+44+47.8+46.7+48+45 = 339.6 millions€)

### Commen

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

# C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business? Yes

### (C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

#### Identifier

Opp1

### Where in the value chain does the opportunity occur?

Direct operations

#### Opportunity type

Energy source

#### Primary climate-related opportunity driver

Use of lower-emission sources of energy

### Primary potential financial impact

Other, please specify (Reduced exposure to GHG emissions and therefore less sensitivity to changes in cost of carbon)

#### Company-specific description

ENERGY FROM WASTE. Ferrovial Servicios division is a leading company in technologies on management and production of energy from waste. Biogas recovered at landfills is used at co-generation plants to produce electricity. The recovery process not only avoids discharging GHGs into the atmosphere (methane) but also generates energy from renewable sources. Fossil fuel dependency is thus reduced, with the avoidance of methane emissions, which have a bigger effect on global warming than CO2. So, in case fuel or energy taxes or regulations were increased Ferrovial Services offers to the owner of the landfills (cities and others) the possibility to reduce methane emissions and produce electricity from renewable sources. A reduction of the methane emissions means to decrease costs related to future emissions taxes and compliance with reduction emissions target. On the other hand, there is an opportunity for self-sufficiency on energy consumption, by using this source of electricity from renewable sources at own treatment and industrial plants, as a way to reduce the use of fossil fuel and operating expenses. In 2019, Ferrovial Servicios and Amey generated 283620 GJ from biogas recovered at landfills. The electricity generated is used for own consumption or sold to third parties. The consumption of this energy avoids 21419 TnCO2en.

#### Time horizon

Short-term

### Likelihood

Virtually certain

### Magnitude of impact

High

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

# Potential financial impact figure (currency)

263300000

# Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

# Explanation of financial impact figure

In 2019, Ferrovial Servicios and Amey generated 283620 GJ from biogas recovered at landfills. The electricity generated is used for own consumption or sold to third parties. Consumption of this energy from renewable sources avoids 21419 tCO2eq. The annual landfill activities turnover is around 187 million €. Furthermore if the company sell the generated electricity to third parties receive around 26.3 million € every year.

### Cost to realize opportunity

81570000

### Strategy to realize opportunity and explanation of cost calculation

Ferrovial Services has invested in technology for the recovery and use of landfill biogas from waste decomposition to produce energy. This will reduce dependence on fossil fuels and the emissions from their combustion avoiding emissions of methane Also, it has increased sealed surface in some landfills. Ferrovial Services has developed an innovative project involving the installation of the first microturbine in Spain using biogas from landfill. Ferrovial Servicios division has several agreements with R&D institutions. Moreover, Ferrovial team is lobbying regulations on energy and waste treatment, in order to anticipate future trends impacting on this emerging business area. Costs associated: - Ferrovial will invest around 79 million $\epsilon$  in technology for the recovery and use of landfill biogas from waste decomposition to produce energy. - Ferrovial has invested more than  $\epsilon$ 2 million in the CIE initiative, as a part of the programs led by Cl3. - Investments in the Ferrovial R&D strategy on waste treatment amounted by  $\epsilon$ 4 year - Group staff resources dedicated to lobbying the regulatory framework on energy and waste treatment total around  $\epsilon$ 70,000 a year  $\epsilon$ 8,000,000+2,000,000+500,000+70,000 = 81,570,000  $\epsilon$ 9.

### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

### Identifier

Opp2

# Where in the value chain does the opportunity occur?

Direct operations

### Opportunity type

Resource efficiency

## Primary climate-related opportunity driver

Move to more efficient buildings

# Primary potential financial impact

Other, please specify (Increased production capacity, resulting in increased revenues)

### Company-specific description

ENERGY EFFICIENCY IN BUILDINGS Energy efficiency in buildings (both residential and non-residential buildings). Ferrovial Services division has been positioned as a leading company in providing energy efficiency services (as ESCO). Moreover, Ferrovial Construction division is currently developing a new business model for the building sector in Spain, UK and other EU countries, based on financing big scale projects on energy efficiency retrofit of buildings, under PPP schemes. So, in case fuel or energy taxes or regulations were increased or new ones were developed, Ferrovial offers to clients to reduce significantly the energy consumption and GHG emissions. A reduction of the energy consumption means a reduction of the costs because although the fuel or energy taxes rise the costs in energy will reduce because there is less energy consumption. On the other hand, a reduction of the GHG emissions means a reduction of the costs related to emissions taxes and compliance with reduction emissions target.

### Time horizon

Short-term

### Likelihood

Very likely

### **Magnitude of impact**

High

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

300000000

### Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

### Explanation of financial impact figure

The emerging market on energy efficiency of buildings has been evaluated around €10bn in 2020 according to the figures reported by GTR (Refurbishment of Buildings Working Group). The market share for Ferrovial construction and ESCO subsidiaries has been assessed 3% of the whole business. Thus, this new activity could increase the sales of Ferrovial construction and ESCO around €300 million in 2020.

### Cost to realize opportunity

6663000

### Strategy to realize opportunity and explanation of cost calculation

Ferrovial experts are taking part in key forums at Spanish and European levels, where decisions on the regulatory framework are made An appropriate regulatory scheme is key to provide certainty and low-cost financing to the energy efficiency market. Ferrovial is a very active member of taskforce of the Spanish Government Department of Housing and the Green Building Council.Moreover,Company is lobbying with several institutions at the European Commission,particular on the implementation of the European Energy Efficiency Directive, partnering institutions as the European Climate Foundation,WWF or the ITO (Spanish Section), amongst others.Ferrovial has been developing a strategy on R&D focused on energy efficiency of buildings and cities, starting in 2010, in order to position Ferrovial technology and know-how as a leading player in the emerging energy-efficiency market. As a part of this strategy there is a long-term agreement with the MIT.Cost of staff dedicated to take part in the committee is estimated around €663,400 since 2010. Investments in the Ferrovial R&D strategy on this matter amounted up to 6 € million (total multiannual investment in the projects ongoing). Moreover, Ferrovial is supporting the partnership with GTR (Refurbishment of Buildings Working Group) and European Climate Foundation for this purpose. The total amount invested in such partnership has amounted up to 276,000 € since 2010.

### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

# Identifier

Opp3

# Where in the value chain does the opportunity occur?

Direct operations

### Opportunity type

Products and services

## Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

# Primary potential financial impact

Increased revenues resulting from increased demand for products and services

### Company-specific description

INTELLIGENT CITIES Ferrovial Services division has implemented a very new business model based on integrating all kind of municipality services into only one PPP (Public Private Partnership) contract. This scheme involves relevant cost reduction for the customer (up to 30% of prior expenses), energy savings and carbon reduction (by 20% less, according to our own estimates). So, in case fuel or energy taxes or regulations were increased or new ones were developed, Ferrovial Servicios division offer better services for cities at a lower cost due mainly to reduction significantly the energy consumption and GHG emissions. A reduction of the energy consumption means a reduction of the costs because although the fuel or energy taxes rise the costs in energy will reduce because there is less energy consumption. On the other hand, a reduction of the GHG emissions means a reduction of the costs related to emissions taxes and compliance with reduction emissions target.

### Time horizon

Short-term

### Likelihood

Virtually certain

## Magnitude of impact

High

# Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

5600000

### Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

### Explanation of financial impact figure

A Spanish city of 100,000 inhabitants spend about 25M€ (1/3 of averagebudget) on provision of services which are generally outsourced (waste collection, cleaning, maintenance of public highways, lighting, energy consumption. Studies undertaken by Ferrovial show that a smart integration of those services can reduce around 30% the overall cost, and 20% of the GHG emissions. Ferrovial records that in the future the value of the contracts operated by the company under this scheme will be € 5.600 million( financial costs is calculated as well as savings costs due to the implementation of this activity, where € 3,640,000 in electricity public lighting and 1,960,000 in fossil fuel (diesel) used by fleet vehicles)

### Cost to realize opportunity

4781808

# Strategy to realize opportunity and explanation of cost calculation

Ferrovial has developed a model for Intelligent cities and has created a Cities Division(focus on Spain and Europe)with the aim of facilitating this model to emerge as an alternative to the traditional management of cities and services for cities. In Spain, Ferrovial holds this kind of initiatives with several medium size (Torrejon de Ardoz) and larger cities (Guadalajara) in researching ways to improve the energy management of the city an public buildings by applying new technologies This model is based on Information Technologies, that allows the operator to integrate all city services and optimize the resources and to facilitate participation of the citizenship in the management of city services. Ferrovial holds R&D programs in partnership with MIT, dedicated to providing smart technologies solutions to make this emerging business model possible, specifically "Building IR Scanning and Retrofit Prioritization Based on Energy Return on Investment" and "City Light Scanning Optimization and Remediation", aimed at improving energy efficiency and reducing emissions in municipal services. Every year, Ferrovial invests in lobbying, as well as sponsoring forums on Intelligent Cities around 150,000€ and Ferrovial has invested 5m€ in the MIT partnership.Cost of the projects carried out by MIT was 831,808 €.We have invested around 3.8 m€ on a new fleet of operational vehicles and have been awarded a four star rating in the ECO Stars Fleet Recognition Scheme-Total =4,781,808

#### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

#### Identifier

Opp4

### Where in the value chain does the opportunity occur?

Downstream

### Opportunity type

Products and services

### Primary climate-related opportunity driver

Other, please specify (Increased revenue through new solutions to adaptation needs (e.g., insurance risk transfer products and services))

# Primary potential financial impact

Other, please specify (Increased revenue through new solutions to adaptation needs (e.g., insurance risk transfer products and services))

### Company-specific description

Water transport and water / wastewater treatment plants in core geographies in municipal space is an opportunity. The consequences of climate change in regard to water (changes in runoff), increased demand for supplying water to populations without access to it and for wastewater treatment for populations with no access to sanitation would lead to investment in new hydraulic infrastructures. Furthermore, if existing hydraulic infrastructures became obsolete there would be investment in maintenance and/or renovation and remodelling projects. We believe there are two aspects that could augment this opportunity: - An increase in the price of water would mean increased investment in construction of hydraulic infrastructures. - An increase in the price of water would mean increased investment in renovation and maintenance of current hydraulic infrastructures An example of this type of project is The BAWA project in USA that cost 46 millons of dollars

## Time horizon

Long-term

### Likelihood

Likely

## Magnitude of impact

Medium

# Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

56094045

### Potential financial impact figure - minimum (currency)

<Not Applicable>

# Potential financial impact figure - maximum (currency)

<Not Applicable>

## Explanation of financial impact figure

Financial Implications: Globally this opportunity is quantified as being worth 142.25 billion € over the next 5 years. Ferrovial estimates that this opportunity is quantified with the aid of those companies within the group whose purpose is the construction of treatment plants. The medium to long-term impact of the opportunity associated with climate change is calculated as a 35% increase in the turnover of the construction of treatment plants in the United States. (56,094,045 €)

### Cost to realize opportunity

40965358

### Strategy to realize opportunity and explanation of cost calculation

Ferrovial has extensive experience and expertise in design, building and maintenance of all types of water transportation and wastewater/water treatment plants. The strategy being applied is to contribute and offer said expertise in the form of innovative solutions to municipalities with a need for this type of infrastructures. This strategy is implemented by intensifying our marketing work in our target countries, which include the USA, Colombia, Mexico, Spain, the United Kingdom, Poland, Saudi Arabia and

Qatar. This opportunity was identified as part of the "Water Footprint" project carried out recently. Ferrovial developed a project that is applicable to all operations throughout the Ferrovial Group over which we exercise operational control. The project's aim is to identify Ferrovial's main water management-linked risks and opportunities.. It was necessary to hold working meetings to identify the risks which affect - or might affect – execution of activities, as well as the opportunities for action, all of this in relation to water. An example is that in USA, the Baytown Area Water Authority project will help the City of Baytown meet new surface water usage rules by treating up to six million gallons of surface water from the CIWA canal to clean, potable water for residents.PLW was selected by the Baytown Area Water Authority (BAWA) to construct a new 6 MGD Surface Treatment Plant for the community. The development of this type of projects would cost in the future of around \$46 million. The cost of realizing the opportunity is calculated taking into account construction, operation and maintenance =\$46 million = € 40,965,358) 1euro = 1.1229 USD "

#### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

#### Identifier

Opp5

#### Where in the value chain does the opportunity occur?

Direct operations

#### Opportunity type

Markets

# Primary climate-related opportunity driver

Access to new markets

### Primary potential financial impact

Other, please specify (Increased revenues through access to new and emerging markets (e.g., partnerships with governments, development banks))

### Company-specific description

Water business drivers have been considerably accelerated by Global Change. It is clear that water distribution and availability is a core theme in the climate sector, which will be exacerbated by climate change, and the amount of global investment required in this industry is enormous. Moreover, experts on water supply, as well as the conclusions of the IPCC and other research institutions, are pointing out that countries located in sensitive areas to water scarcity (for example, Middle East and some regions in Asia and America), will be asked to invest significant budgets in water use efficiency, recycling and desalinization, amongst other services and facilities.

According to the US National Intelligence Council, more than 1,4bn people will be affected by water scarcity in 2025. That involves a global market estimated to be worth from 480 billion \$\perp\$ per annum in 2010, to \$1 tr in 2030. A broader market associated to the increase of water scarcity in several regions should represent a real opportunity for expanding the business of the water division of Cadagua (Ferrovial subsidiary). Cadagua is a well-placed "niche" player with 105 Million € of revenue, 35 years of experience working in more 340 distinct projects and existing assets processing over 14 million m3 water per day in several countries in Asia, Africa, Europe and America. Extreme climate events such as drought trigger investment in new desalination plants in geographies with the world's most severe water stress in order to address the demand for supply of water for human consumption or irrigation. Projects of this type are already up and running in the United Arab Emirates, India, Morocco, Oman and Poland. We think that the existence of funding sources for in relation to climate change may offer an opportunity for new concession projects to help third-parties adapt to the effects of climate change, thereby responding to an increased demand for water.

#### Time horizon

Medium-term

### Likelihood

Likely

## Magnitude of impact

Medium

## Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

# Potential financial impact figure (currency)

17500000

## Potential financial impact figure - minimum (currency)

<Not Applicable>

# Potential financial impact figure - maximum (currency)

<Not Applicable>

# Explanation of financial impact figure

This opportunity is quantified as being worth 15.73 billion € in the next 5 years (worldwide). In 2019, Cadagua's revenue was 61 Million € and sales in countries with water scarcity represents 80.8 % of total sales. As a result of this strategy Cadagua has progressively increased its sales in countries with water scarcity from 8 million € in 2011 to 61 million € in 2019. We estimate Cadagua's strategy will increase the revenue in emerging markets a 17.5 million per year. So Cadagua will increase its sales in emerging markets from 8 million €, in 2011, to 165.51 million €, in 2020. We think that the existence of funding sources for in relation to climate change may offer an opportunity for new concession projects to help third-parties adapt to the effects of climate change, thereby responding to an increased demand for water.

### Cost to realize opportunity

1731295

## Strategy to realize opportunity and explanation of cost calculation

Ferrovial has with extensive experience and expertise in design, construction and maintenance of water treatment plants,including SWPD . The strategy being applied is to contribute and offer said expertise in the form of innovative solutions to public and private customers in other geographies with a need for supply of water for human consumption or irrigation. Technology has become into a key driver for improving competitiveness in the water sector. Some issues as energy efficiency and desalinization technologies are becoming more relevant. This strategy is being implemented by intensifying our marketing work in our target countries. Projects of this type are already up and running in many countries. This opportunity was identified in as part of the Water Footprint project that was carried out. Ferrovial developed a project that is applicable to all operations throughout the Ferrovial Group over which we exercise operational control. Along the last months, Ferrovial has successfully completed the start-up of four SWDP totalling, among them, a production of potable water of more than 1,2 Mm3/day. The cost associated with these actions:-External advisory on business strategy has amounted to € 200,000.-Staff resources dedicated to re-defining Cadagua's portfolio are 125,000 €/year.-R&D programs on water amounted 456295€ in 2019 and 3689000 € since 2013. The cost of the staff and resources dedicated to design the new project activity and the pilot 950,000€/year. Total cost =1731295

## Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

### Identifier

CDF

#### Opp6

### Where in the value chain does the opportunity occur?

Downstream

#### Opportunity type

Products and services

#### Primary climate-related opportunity driver

Development of new products or services through R&D and innovation

### Primary potential financial impact

Increased revenues resulting from increased demand for products and services

#### Company-specific description

Ferrovial developed its "Ferrovial 2015-20" project in order to analyse risks and opportunities around climate change. As result of this project, Ferrovial detected that society and consumers are looking for alternative fuels to reduce the consumption of fossil fuels. Thanks to the experience we had in landfill and waste treatment we identified a new opportunity. This opportunity was to produce a new fuel called SRF (solid recovered fuel) that it is an alternative fuel to heating diesel. To get SRF fuel from processed waste, i.e. waste previously subjected to processes of characterization, selection, selective sorting, elimination of metals and contaminants and processes of grinding and refining, as raw material. The main product resulting is a bioliquid fuel similar to heating diesel "C" that ii will be sell to third parties, thus minimizing the impact of human activity on ecosystems, and considerably reducing the carbon footprint as well as the environmental footprint of materials and waste. The SRF (solid recovered fuel) comes from: - Biomass from the organic part of urban waste. This biomass is mainly made up of cardboard, wood and vegetable waste, remains of food, cellulose and other organic materials. - Mixture of plastics from urban waste. This mixture is made up of various packaging plastics used and other plastic materials from post-consumer objects. To sum up, the development of this technology leads to numerous environmental objectives, among them the following: - Reduction of greenhouse gas emissions. - Saving in fossil fuels for future generations. - Recovery of energy in materials destined for the landfill. - Reduction in the volume of waste destined for the landfill and thus increase in the useful life of landfill containers. - Reduction of investment for establishing and managing new landfill containers. - Reduction in the country.

#### Time horizon

Short-term

### Likelihood

Virtually certain

#### Magnitude of impact

Medium-low

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

48000000

### Potential financial impact figure - minimum (currency)

<Not Applicable>

# Potential financial impact figure - maximum (currency)

<Not Applicable>

## Explanation of financial impact figure

The construction of one of this plant costs around 27,5 million  $\in$  and the incomes per year will be 2,4 million  $\in$ . The incomes estimated during the project life cycle will be 47.9 million  $\in$  (15 years). The project model will be replicate and we estimate that the incomes will be 48 million per year.

## Cost to realize opportunity

27709000

### Strategy to realize opportunity and explanation of cost calculation

We have develop an activity for processing solid urban waste and turning it into bioliquid similar to Heating Diesel. We have designed and implemented the first project"Plant for Processing Solid Urban Waste and turning it into bioliquid similar to heating Diesel". Consists of the installation of technology to recover 16,000 t/year in biomass and plastic waste from the waste classification and composting plant, in Toledo. This processing plant uses processed waste. The main product is a bioliquid fuel similar to diesel "C", thus minimizing the impact of human activity on ecosystems, and considerably reducing the carbon footprint as well as the environmental footprint of materials and waste. The SRF (solid recovered fuel) comes from:-Biomass from the organic part of urban waste. It accounts for 60% of the SRF to be used.-Mixture of plastics from urban waste. Makes up 40% of the SRF to be used. The plant will produce more than 3,8 Mlitres of heating diesel/year and with an annual average reduction of 7,277.92tCO2e,6,223tCO2e come from the replacement of diesel C and 1,236 tCO2e from waste not dumped in landfills.Total of 57M of diesel will be produced and 109,168.8 tCO2e will be cut during the life cycle of this plant.The cost associated with these actions: - The investment of building the plant is 27.52 M€. This quantity includes all the equipment-The cost of the staff resources dedicated to design the new project activity and the pilot project 189,000€.TOTAL=27,709,000

### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

## Identifier

Opp7

# Where in the value chain does the opportunity occur?

Downstream

# Opportunity type

Products and services

## Primary climate-related opportunity driver

Development of new products or services through R&D and innovation

# Primary potential financial impact

Increased revenues resulting from increased demand for products and services

### Company-specific description

Ferrovial developed its "Ferrovial 2015-20" project in order to analyze risks and opportunities around climate change. As result of this project, Ferrovial detected that society and consumers are looking for alternative fuels to reduce the consumption of fossil fuels, to reduce the GHG emissions to the atmosphere. Consumers think fossil fuel will

increase price and are looking for an alternative fuel. On the other hand they think is a necessity to maintain the forest like a way to capture CO2 from the atmosphere and preserve biodiversity. Thanks to the experience Ferrovial Servicios division had maintaining parks and forest we identified a new business opportunity called "Smart Forest". This opportunity consists in an integral services. It includes from the management of biomass in the forest until the production of the energy in boiler by using that biomass. Fossil fuel boilers will be replace by biomass boilers like an alternative clean fuel (biomass) and reducing GHG emissions due to the balance of carbon capture that wood has. In summary, the Smart Forest is an innovative project focused on: - changing the current management of forest by introducing sustainable practices, guaranteed by the FSC certification, - maintaining ecosystems functionality and preserving biodiversity, - generating economic streams to support the maintenance of the forest, - creating green jobs on a local basis, contributing to retain rural population, - attracting private investment to support the maintenance and conservation of natural capital and biodiversity, - enhancing forest resources by managing woodlands currently unmanaged, and - promoting renewable energies by introducing biomass boilers and replacing fossil fuelled heating systems.

#### Time horizon

Medium-term

#### Likelihood

Virtually certain

### Magnitude of impact

Medium-high

### Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

48000000

## Potential financial impact figure - minimum (currency)

<Not Applicable>

#### Potential financial impact figure - maximum (currency)

<Not Applicable>

### Explanation of financial impact figure

We have designed the first pilot project "Smart Forest" and it can be applied to any scale. For this first project, the incomes per year will be 3.2 million € and the life cycle estimated will be 15 years. So, the total incomes will be 48 million € (3.2 millions per year \* 15 years = 48,000,000). The 85 % of the incomes come from providing renewable energies and the 15 % from leisure activities in the forest. After this phase, the project will be replicate

### Cost to realize opportunity

3233500000

### Strategy to realize opportunity and explanation of cost calculation

Smart Forest is a innovative approach based on a PPP scheme to provide funding solutions for forest conservation and maintenance in long term. Are based on an approach combining sustainable forest management and energy services, by creating an operator that works as an Energy Services Company. This player operates the woodland, provides biomass fueled energy, invests in boilers renovation of final customers and creates economic streams needed to support the conservation and maintenance of the forest (as well as other economic activities related to the woodland). We have carried out the first pilot project in Spain with a life cycle of 15 years. It can be applied to any scale where the possibility of the mountains make the project viable. The project aims at:-Maintaining the population in rural areas. Create 27 new direct local jobs, 30 indirect local jobs, just considering the first project. Replace fossil fuel systems by biomass boilers, promote renewable energies, contribute to reduce CO2 emissions (8,000 tCO2e/year) and a reduction of a minimum of 10% in the economic cost born by replacing them with biomass boilers. 40,1Gw of energy produced by biomass.-Another innovative aspect is the certification of the SFM by third party.-Decrease fire and erosion risks. The cost of the project (all life cycle) is 3,233.5M€: 879,6M€ comes from investment and 2,353.9M€ from operational cost. The cost of the staff resources dedicated to design the new project activity and the pilot project 165,000€

## Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

### Identifier

Opp8

## Where in the value chain does the opportunity occur?

Direct operations

# Opportunity type

Products and services

### Primary climate-related opportunity driver

Ability to diversify business activities

### Primary potential financial impact

Other, please specify (Increased revenue through new solutions to adaptation needs (e.g., insurance risk transfer products and services))

# Company-specific description

Ferrovial's concession business experience in motorway management (investment, relationship with public administrations and management of collection of payment from end users) ensures we are equipped to take on new concession projects for hydraulic infrastructures covering the whole water cycle: design, investment, building, operation and maintenance. An example of this type of projects is a concession for the supply of water to farmers in Peru. We think that the existence of funding sources for in relation to climate change may offer an opportunity for new concession projects to help third-parties adapt to the effects of climate change. For such projects, an increase in the price of water and unregulated metering for private customers would mean increased profitability.

### Time horizon

Short-term

# Likelihood

Virtually certain

# Magnitude of impact

Medium-high

## Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

### Potential financial impact figure (currency)

6289469

### Potential financial impact figure - minimum (currency)

<Not Applicable>

### Potential financial impact figure - maximum (currency)

<Not Applicable>

#### Explanation of financial impact figure

Globally this opportunity is quantified as being worth 20.07 billion € over the next 5 years. Ferrovial quantified in 6.289.469 € this opportunity.

### Cost to realize opportunity

830000

### Strategy to realize opportunity and explanation of cost calculation

The strategy being followed is that of harnessing the added value of partnerships between different group companies. Cintra contributes its experience in the concession business; Cadagua brings to the table its experience in management of water treatment plants; Ferrovial Services and Amey contribute their experience of maintenance and repair of existing infrastructure and Ferrovial-Agromán offers its experience of building new hydraulic infrastructures. This strategy is being implemented by signing agreements for new concession projects. An example of this type of projects is a concession for the supply of water to farmers in Peru. This opportunity was identified as part of the "Water Footprint" project. The project's aim is to identify Ferrovial's main water management-linked risks and opportunities via benchmarking and assessment of the current situation and trends, and execution of a series of in-house interviews. It was necessary to hold working meetings with the key figures in each of Ferrovial's business areas, so as to identify the risks which affect - or might affect – execution of activities, as well as the opportunities for action, all of this in relation to water. The cost associated with these actions: - External advisory on business strategy has amounted to € 200,000. - The cost of the staff and resources dedicated to design the new project activity and the pilot project 630,000€/year total cost = 200,000 + 630,000 = 830,000

#### Comment

The management costs have been calculated based on the actions that the company has already taken, and may change in the future based on the needs detected.

### C3. Business Strategy

### C3.1

### (C3.1) Have climate-related risks and opportunities influenced your organization's strategy and/or financial planning?

Yes, and we have developed a low-carbon transition plan

## C3.1a

## (C3.1a) Does your organization use climate-related scenario analysis to inform its strategy?

Yes, qualitative and quantitative

## C3.1b

## (C3.1b) Provide details of your organization's use of climate-related scenario analysis.

Climate-	
related	
scenarios	
and models	
applied	
IFA	

### Detail

Ferrovial used three IEA-led scenarios (Current Policies, New Policy Scenario and Sustainable Development Scenario) to assess climate-issues and their financial implications. Ferrovial understands the importance of scenario analysis and is using it to stimulate future thinking and advance its sustainability and resilience strategy addressing possible forthcoming events in the present. Current development Policies Scenario (CPS):3-4º. Takes into account the impact of only policies and measures enshrined in legislation as of mid-2017. Under CPS, policies in place aim for a set of outcomes: It therefore expects for the lower end of these policies to be accomplished.CPS offers a rather prudent assessment of where policies in place could drive the energy sector without the additional push from governments. New Policies Scenario (NPS): 2-3º. Designed to show where existing policies as well as announced policy intentions might lead the energy sector. NPS integrates: Current global government policies as well as measures, Effects of announced targets and plans. As new policies are not yet fully echoed in regulation, NPS bases the prospects and timeframe for their complete implementation on the evaluation of a series of constraints in:politics, regulation, markets, infrastructure and Finance Sustainable Development Scenario (SDS):well below 2º. Examines what it would take to achieve the main energy-related components of the "2030 Agenda for Sustainable Development" The SDS aims provide an integrated strategy to attain the policy objectives above in consonance with energy security. Assumptions used was price of key products, efficiency or policy among others. TCFD recognises that the 2°C or lower scenario as a key area of focus, referenced by Ferrovial through the IEA's SDS, encouraging companies to engage in both the qualitative and quantitative disclosure of their lines of action to undertake likely climate-related risks and opportunities. Ferrovial sees the gradual emergence, and importance, of climate-related R&O in the context of its businesses, risk management and strategic planning processes. In the beginning of 2018, Ferrovial had well integrated its climate change strategy within the group's business philosophy and collective strategy we worked in "Horizon 2030 Project", based upon Ferrovial understands that emerging climate change regulation and mobilization towards a low carbon economy is effectively directing investment and financing towards business opportunities that can enable achieving the targets set in the Paris Agreement. Time horizon considered is 2030 due to the Ferrovial strategy. All the business units are involved in the scenario analysis With the results of this project Ferrovial will enable further transparency in its operations and support long-term decision-making and therefore provide investors and other stakeholders the key information they need to understand the company's overall climate-related risks and opportunities. Ending the project the magnitude of the described impact could be quantify as part of the revenues, could be oscillate depends on the scenario, country or services we are. The magnitude could be classify as medium in the case of opportunities, such as increase of revenues could be around 15%. In the case of risk, loss of revenues could be classify as low, such as loss of max 3% in the most unfavorable scenarios. As a result of the analysis of climatic scenarios directly affecting the company's strategy 2030 and the reduction of emissions. Ferrovial launches different solutions to reduce its energy consumption and emissionssuch as sustainable mobility, energy from renewable sources, energy efficiency achieving a 59% reduction in 2019 in intensity terms and 19.5% in absolute terms, indicating that the company is complying with its established roadmap to reduce emissions from scopes 1&2& 3 and achieve your reduction to 2030

### C3.1d

	Have climate- related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	Ferrovial's climate strategy forms part of the company's wider business strategy. Ferrovial adopts Horizon 24 Plan to focus on sustainable infrastructure. A strategy for 2020-2024 in which the company will focus on the development, construction and operation of sustainable infrastructure. The commitment to sustainability is materialized in the form of a gradual roadmap to decarbonization by reducing CO2 emissions by 32% in 2030 compared to the 2009 baseline. Ferrovial will implement a new operating model to be a more agile, efficient, and innovative company. In 2019 being part of the new strategy of the company the CEO request a "deep descarbonization plan". The global migration towards a low-emission economy is channeling investment and financing towards businesses that help meet the climate change goals set out in the Paris Agreement. These commitments are generating new opportunities for sustainable infrastructure, mobility and energy efficiency, among others. Climate Change has influenced our short-term strategy. We have developed new business in low-carbon solutions, energy efficiency, water infrastructure such as smart cities, smart forest, energy services efficiency or energy rehabilitation of buildings. Internally, the company has identified opportunities to be more efficient and to reduce energy consumption. To do this, we have implemented energy efficiency measures, allowing a reduction of GHG. The magnitude of impact could be quantified as the cost of implementing all these measures 30 million € To continue working on our commitment and remain leaders, as part of the company's strategy, on the subject of climate change, within the company's strategy it is mandatory to meet the objectives of reducing emissions by SBTiFerrovial is working continuously to provide solutions to the risks and opportunities that their products and services may generate. Such as Develop a model for Intelligent cities, develop a new activity for processing solid urban waste into heating diesel or through it's expertise in
Supply chain and/or value chain	Yes	Ferrovial's suppliers and facilities are exposed to a range of risk factors. Ferrovial contemplate how the R&O have been impacted in passengers in the UK airports or users of toll roads managed by Cintra. The set of extremes temperatures, snow, ice, extreme precipitation, flooding and tropical cyclones can impact the operating performance of our infrastructures. These losses can cause physical damage on assets and infrastructure closure either they have to be repaired or because they cannot operate. Climate change has influenced our short-medium term strategy. In order to manage future severe weather events, for example Heathrow airport (managed by Ferrovial - HAH) implements a programme called "Winter Resilience Programme" to examine how the airport could respond more effectively to future severe weather events
Investment in R&D	Yes	Ferrovial's suppliers and facilities are exposed to a range of risk factors in medium-long term, In order to manage how climate change has influenced in our suppliers and facilities, for example, Ferrovial contemplate how the R&O have been impacted in passengers in the UK airports or users of toll roads managed by Cintra. The set of extremes temperatures, snow, ice, extreme precipitation, flooding and tropical cyclones can impact the operating performance of our infrastructures. These losses can cause physical damage on assets and infrastructure closure either because they have to be repaired or because they cannot operate, Climate change has influenced our short-term strategy. In order to manage this impact is invested in R&D programs so that the impact ratio is lower. The magnitude of the described impact could be quantify as 15 million €
Operations	Yes	Ferrovial is exposed to a range of risk factors arising in countries where it carries out its activities and inherent to the sectors in which it operates. The company seeks to detect and assess risks, and implement timely control measures to mitigate their probability of occurrence and/or potential impact according to the strategic objectives. Moreover, new business opportunities can be identified because of the effective and efficient management of certain risks. Ferrovial assesses and monitors the status of emerging risks that could negatively affect its ability to meet strategic targets or risks that, despite their low likelihood of occurrence, could nevertheless have negative effects on its business targets. Some of the more prominent risk include natural disaster. Environmental risk are monitored, mainly those related to the effects of climate change, Climate change has influenced our short-term strategy. In order to manage operations FRM included them as operational type (such as, changes in precipitation patterns and extreme variability in weather patterns, rising mean temperatures) so that contingency plans are included in the works / contracts to manage the possible impacts on the business targets

# C3.1e

(C3.1e) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	planning elements that have been influenced	Description of influence
Row 1	Indirect costs Capital expenditures	CEO of Ferrovial is the person of maximum responsibility in the company on issues related to climate change. All climate issues are included in Ferrovial strategy. In 2019 Ferrovial has approved Plan Horizon 24, a strategy for the 2020-2024 period that places the company's primary focus on the promotion, construction and management of sustainable infrastructure. The commitment to sustainability translates into the design of a gradual roadmap for decarbonization, reducing CO2 emissions by 32 percent in 2030 compared to 2009 levels. Ferrovial will launch a new operating model to be a more agile company, efficient and innovative. As a result of this fight the company in 2019, requesting by the CEO a powerful plan has been developed called the "Deep Descarbonization Plan" where in addition to committing to the purchase of 100% electricity from renewable sources, also includes other actions such as including electric vehicles (50% in Europe and 25 % in the USA) and energy efficiency measures in stationary sources. Ferrovial has a system called Ferrovial Risk Management (FRM) to identify the risks. So the managers in a contract/asset identify the risks which threaten theirs activity, business target and infrastructures. These risks go on to the up level until the CEO with the idea to consolidate the risks. Twice a year, the risks and opportunities are reviewed because the market conditions change continuously (legislation changes, new trends,). Climate risks, included within the corporate FRM risk management system, are analyzed and quantified twice a year and "substantial financial or strategic impacts" are identified. An example, in 2019, toll roads managers in a contract/asset identified risks could impact to the operating performance of the infrastructures. So, in a toll road physical risks (flooding and cyclones) could cause physical damage on assets and infrastructure closure because they must be repaired or because they cannot operate. As an example, the toll road in Colombia called "Ruta del Cacao" has id

# C3.1f

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(C3.1f) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).

Ferrovial's climate strategy forms part of the company's wider business strategy. In 2019 being part of the new strategy of the company the CEO request a "deep descarbonization plan". Plan that includes commitments of renewable energy, renovation of fleet and reduction emissions by stationary sources

Matters relating to climate change are analyzed and discussed by the Board of Directors and the Management Committee.

Climate change, energy transition, concentration in cities, changes in mobility and technological advances are all transforming the way infrastructure is built and operated. Key considerations include:

The global migration towards a low-emission economy is channeling investment and financing towards businesses that help meet the climate change goals set out in the Paris Agreement. These commitments are generating new opportunities for sustainable infrastructure, mobility and energy efficiency, among others.

Technology developments and digitalization improves infrastructure efficiency and productivity.

Autonomous driving, connected infrastructure, vehicle sharing and electrification will impact not only transportation infrastructure but also mobility services, opening up new business opportunities.

To continue working on our commitment and remain leaders, as part of the company's strategy, on the subject of climate change, within the company's strategy it is mandatory to meet the objectives of reducing emissions by Science Based Targets Iniciative (SBTi)

#### SHORT TERMS STRATEGY

Climate Change has influenced our short-term strategy. We have developed new business in low-carbon solutions, energy efficiency, water infrastructure such as smart cities, smart forest, energy services efficiency or energy rehabilitation of buildings. Internally, the company has identified opportunities to be more efficient and to reduce energy consumption. To do this, we have implemented energy efficiency measures, allowing a reduction of GHG.

#### LONG TERMS STRATEGY:

Ferrovial is committed to a sustainable growth, operating regularly in countries that have emission reduction commitments and infrastructure adaptation plans, offering them innovative solutions. Climate Change has influenced our long-term strategy. Ferrovial has made a firm commitment to long-term investment in R&D, new business of mobility where digitalization and connectivity are key focused on developing low-emission solutions. Some of this projects are: HEFESTO ( software developed to optimization of energy efficiency ) ZITY ( one of the principles car sharing solutions in Madrid and Paris) ZEN ROBOTICS ( use of arm-robots in the improve of waste that derives less diffuse emissions in our landfills)

Ferrovial is involved in various think tanks and influence groups at European level to discuss and predict the future of the economic and environmental agenda for the 2030 and 2050 horizons. These include the Corporate Leaders Group and the EU Green Growth Group. In the realm of climate innovation, Ferrovial has been a co-partner of Climate-KIC, the largest European initiative focused on mitigating and adapting to climate change. In Spain, Ferrovial chairs the Spanish Green Growth Group, which promotes public-private partnerships to make further progress in mitigating and adapting to climate change, decarbonizing the economy and championing the circular economy. A manifesto was signed in 2018, together with 35 other Spanish companies, to activate the energy transition and a conference titled "Opportunities of the energy transition for the Spanish and European economy" was organized in collaboration with the European Alliance to Save Energy. In 2019 launches a Manifesto to promote the Sustainable Development Goals (SDGs) of the 2030 Agenda. In 2019 also the SGGG together with the Madrid city government, it signs an agreement to promote the green economy in the region

ADVANTAGE OVER COMPETITORS The transport and building sectors are affected by an increasingly restrictive regulatory framework related to climate change and energy efficiency. This scenario generates great opportunities for the company, above all in those countries that have made public commitments to reduce emissions. In line with this, Ferrovial's business strategy has been influenced developing business in low-carbon solutions: energy efficiency, smart cities, smart forest, energy services efficiency, rehabilitation of buildings and we have a great experience. Clients identify us with this type of contract and hire us; the industry recognizes us and evaluate well in the sustainability indices and administration bodies invite us to participate in working groups on issues related to climate change or to pilot projects, which is an advantage over ours competitors. We are part of the prestigious group: Corporate Leaders Group, UE Green Growth Group and the Spanish Green Growth Group, that Ferrovial chair since 2015, in order to gather their input and perspectives on how to proceed to transform the current economy into a low-carbon economy that contributes to the fight against climate change while and guarantees a sustainable job-creating economic growth. Since 2016 Ferrovial becomes a member and core-partner of Climate-KIC.

SUBSTANTIAL BUSINESS DECISION. Following the TFCD recommendations Ferrovial integrate climate change risk inside of the FRM system. Also Ferrovial adapts to the new environment scenario related to climate change day by day. As a result, the company has established mechanisms to identify climate change-related legislation that may affect our businesses or that can offer us business opportunities and create new products that bring something innovative to the business "as-usual" such as new business, "Zity", car sharing business created in 2017 seeking to respond to the mobility needs of Madrid. Ferrovial is the first Spanish company, as well as the first in terms of infrastructure and services, to achieve its emission reduction targets certified by the SBTi. HOW THE PARIS AGREEMENT HAS INFLUENCED THE BUSINESS STRATEGY We have consider the Paris Agreement to establish the longer-term strategy. To get this input we make a detailed assessment of the business unit risks and opportunities associated with climate change, and linked policies and regulations, in the short and long-term. In this sense, Ferrovial's Strategy has been influenced by Climate Change.

2°C SCENARIO ANALYSES Since 2017 we conducted a revision of the objectives for scope 1&2&3 in line with a 2°C decarbonization scenario based on SBTi. These objectives have been approved by SBTi

# C4. Targets and performance

### C4.1

(C4.1) Did you have an emissions target that was active in the reporting year? Both absolute and intensity targets

### C4.1a

### (C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

#### Target reference number

Abs 1

### Year target was set

2016

#### Target coverage

Company-wide

## Scope(s) (or Scope 3 category)

Scope 1+2 (market-based)

### Base year

2009

### Covered emissions in base year (metric tons CO2e)

1070232

## Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category)

100

### Target year

2030

### Targeted reduction from base year (%)

32

### Covered emissions in target year (metric tons CO2e) [auto-calculated]

727757.76

### Covered emissions in reporting year (metric tons CO2e)

861300

### % of target achieved [auto-calculated]

61.0066322068486

### Target status in reporting year

Underway

#### Is this a science-based target?

Yes, this target has been approved as science-based by the Science-Based Targets initiative

### Please explain (including target coverage)

In absolute terms the target is to reduce 32% by 2030 from 2009 base-year. In 2019 Ferrovial achieved a reduction of 208,932 tCO2e (208,932 tCO2e reduction of emissions in 2019 divided by 1,070,232 tCO2e emissions in 2009 base year = 19,52 %), in other words 61 % of the target was achieved (19,52 % of reduction divided by 32 % of target = 61 % target achieved). This is evidence that a growth in business no longer necessarily entails extra emissions. Each division has established reduction measures for achievement of the targets: 1) Vehicle fleets and machinery. Initiatives here consist of improving the energy efficiency of these assets, via measures including improvements to criteria used in procurement, renting or leasing, courses to promote efficient driving, the use of alternative fuels, and alternatives with hybrid engines. In this sense, the number of cars powered by alternative energies have increased. 2) Company mobility plans. 3) Energy efficiency in buildings. Implementation of proactive energy efficiency measures in buildings used as corporate headquarters. 4) Green procurement. Purchase of electricity from renewable sources reduces GHG emissions because the CO2/kwh emission factor is zero. In 2019, Ferrovial Group consumed 59 % of its electricity from renewable sources (purchased with a certificate or origin and produced by the company. 5) Current economic situation. Our estimate is that once the economic situation improves, emissions in absolute terms will increase a little. Ferrovial is the first Spanish company, as well as the first in terms of infrastructure and services, to achieve its emission reduction targets certified by the Science Based Target Initiative (SBTi), indicating that they are supported by scientific criteria. The company has committed to reduce by 32% the emissions of scopes 1 and 2 (those generated by its own activity) until 2030, using 2009 as its base year

## Target reference number

Abs 2

# Year target was set

2016

### Target coverage

Company-wide

## Scope(s) (or Scope 3 category)

Other, please specify (Scope 3)

# Base year

2012

# Covered emissions in base year (metric tons CO2e)

2352942

## Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category)

67

# Target year

2030

### Targeted reduction from base year (%)

20

# Covered emissions in target year (metric tons CO2e) [auto-calculated]

1882353.6

# Covered emissions in reporting year (metric tons CO2e)

1953390

% of target achieved [auto-calculated] 84.9047702833304

Target status in reporting year Underway

### Is this a science-based target?

Yes, this target has been approved as science-based by the Science-Based Targets initiative

### Please explain (including target coverage)

The company also commits to reduce all relevant scope 3 emissions (excluding capital goods and purchased goods and services) 20 % by 2030 from 2012 base-year. Scope 3 categories covered by the target represent around 67% of yearly scope 3 emissions. In 2019, Ferrovial has reduced by 399,552 tCO2e (399,552 tCO2e reduction of emissions in 2019 divided by 2,352,942 tCO2e emissions in 2012 base year= 16.98 %) compared to 2012 that is the 84,9% of the fulfilment of the target (16,98 % of reduction in 2019 from 2012 divided by 20% target = 84,9 % target achieved). The categories included in the 67% of scope 3 emissions: - Investments - Fuel and energy related activities - End of life treatment of sold products - Upstream transportation and distribution - Waste generated in operations - Employee commuting - Business travel - Use of sold products - Upstream leased Some reduction initiatives that we have been implemented and we will carry out: - Incorporation of energy efficiency criteria in procurement and sub-contracting of services. - Development of technology and processes geared towards optimizing the avoidance of emissions. - Inclusion of energy efficiency measures - Workshop with companies in which we are the investors. - The relationship with regulatory bodies and governments are key as a way to influence on regulatory trends which are in charge of developing new legal requirements that affect to the company and third party (fuel and energy related activities, used of sold product, purchased goods and services...). Ferrovial is the first Spanish company, as well as the first in terms of infrastructure and services, to achieve its emission reduction targets certified by the Science Based Target Initiative (SBTi), indicating that they are supported by scientific criteria. The company has committed to reduce scope 3 emissions (indirect, excluding capital goods, purchased goods and services) by 20% until 2030, using 2012 as the base year

C4.1b

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### (C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

### Target reference number

Int 1

Year target was set

2017

Target coverage

Company-wide

Scope(s) (or Scope 3 category)

Scope 1+2 (market-based)

Intensity metric

Other, please specify (metric tonnes CO2e per million€ of turnover)

Base year

2009

Intensity figure in base year (metric tons CO2e per unit of activity)

162.36

% of total base year emissions in selected Scope(s) (or Scope 3 category) covered by this intensity figure

100

Target year

2030

Targeted reduction from base year (%)

42.9

Intensity figure in target year (metric tons CO2e per unit of activity) [auto-calculated]

92.70756

% change anticipated in absolute Scope 1+2 emissions

32

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year (metric tons CO2e per unit of activity)

66.18

% of target achieved [auto-calculated]

138.085614804018

Target status in reporting year

Achieved

Is this a science-based target?

Yes, this target has been approved as science-based by the Science Based Targets initiative

## Please explain (including target coverage)

In 2019, Ferrovial has reduced by 59 % the scope 1&2 in intensity terms (t CO2e / turnover) compared to 2009 that is the 100 % of the fulfilment of the target by 2030 . Ferrovial commits to reduce scope 1 and 2 in intensity terms (emissions per million € of turnover by 42.9 % by 2030, from a 2009 base-year. Each business area has established reduction measures for achieve the targets: 1) Vehicle fleets and machinery. Initiatives here consist of improving the energy efficiency of these assets, via measures including improvements to criteria used in procurement, renting or leasing, courses to promote efficient, the use of alternative fuels, and alternatives with hybrid engines. In this sense, the number of cars powered by alternative energies have increased. 2) Company mobility plans. 3) Energy efficiency in buildings. Incorporation of proactive energy efficiency measures in buildings used for corporate headquarters 4) Green procurement. Purchase of electricity from renewable sources reduces GHG emissions because the emission factor of CO2/kwh is zero. In 2019, Ferrovial Group consumed by 59 % of electricity from renewable sources (purchased with certificate or origin and produced by the company). Ferrovial is the first Spanish company, as well as the first in terms of infrastructure and services, to achieve its emission reduction targets certified by the Science Based Target Initiative (SBTi), indicating that they are supported by scientific criteria. The company has committed to reduce in intensity terms by 42.9% for every million euros of revenue

## C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

Target(s) to increase low-carbon energy consumption or production

### C4.2a

(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.

### Target reference number

Low 1

Year target was set

2019

Target coverage

Company-wide

Target type: absolute or intensity

Absolute

Target type: energy carrier

Electricity

Target type: activity

Consumption

Target type: energy source

Renewable energy source(s) only

Metric (target numerator if reporting an intensity target)

Percentage

Target denominator (intensity targets only)

<Not Applicable>

Base year

2009

Figure or percentage in base year

2

**Target year** 

2025

Figure or percentage in target year

100

Figure or percentage in reporting year

59

% of target achieved [auto-calculated]

58.1632653061224

Target status in reporting year

New

Is this target part of an emissions target?

Yes it is. Ferrovial, within its decarbonisation plan for the company to comply with the reduction targets guaranteed by SBTi, has committed in 2025 to have 100% electricity consumption obtained from renewable sources.

# Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

# Please explain (including target coverage)

In 2019, Ferrovial consumed 59% of electricity from renewable sources (purchased with certificate or origin and produced by the company) (212,952 MwH from renewable sources divided by 358,793 MwH of total electricity consumption in 2019 = 59% electricity from renewable sources). Ferrovial commits to have 100% electricity consumption obtained from renewable sources by 2025, this represent a 58,16% achieved in 2019

# C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

### C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	0	0
To be implemented*	1	553.21
Implementation commenced*	6	13761.98
Implemented*	12	48101.17
Not to be implemented	0	0

### (C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

### Initiative category & Initiative type

Other, please specify Other, please specify (Process emissions reductions)

### Estimated annual CO2e savings (metric tonnes CO2e)

5308

### Scope(s)

Scope 3

### Voluntary/Mandatory

Voluntary

### Annual monetary savings (unit currency - as specified in C0.4)

51490

### Investment required (unit currency - as specified in C0.4)

217460

## Payback period

<1 year

### Estimated lifetime of the initiative

11-15 years

### Comment

NATURE OF ACTIVITY The Project known as "Optimization of biogas produced at La Vega (Sevilla) Landfill to supply the heat for the facility's lixiviate processing "was selected by the Spanish Climate Change Office (OECC) to be a Climate Project. The Project consists of using the biogas generated at the landfill itself in order to generate the heat required for the drying treatment of lixiviates. Emissions are thereby reduced due to the replacement of a traditional gasoil burning system with an alternative system based on a biogas boiler. Thus, there is a reduction in the CO2 emissions produced in burning a fossil fuel. SCOPE TYPE: Scope 3: There is avoidance of emissions produced by burning gasoil, a fossil fuel. REGULATIONS: This initiative is VOLUNTARY. The lifetime of the initiative is about 15 years, but the reduction of CO2 tons funding is only for the first 4 years. For this 4 years the CO2 tons reduction would be 53.082,02 tones CO2 eq and, the total external funding would be 205.958,25 €.

### Initiative category & Initiative type

Other, please spe		Other, please specify (Process emissions reductions)
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## Estimated annual CO2e savings (metric tonnes CO2e)

15851

### Scope(s)

Scope 3

## Voluntary/Mandatory

Voluntary

# Annual monetary savings (unit currency - as specified in C0.4)

153750

### Investment required (unit currency - as specified in C0.4)

6888614

## Payback period

1-3 years

### Estimated lifetime of the initiative

11-15 years

### Comment

The project known as "Expansion of the enrichment plant at Parque Tecnológico de Valdemingómez: biomethane production from anaerobic digestion of biogas for its injection into the natural gas grid "The Project aims to enlarge the current biogas processing plant at Parque Tecnológico de Valdemingómez (Valdemingómez Technological Park) so as to increase the amount of biomethane injected into the gas grid. Processing at Parque Tecnológico de Valdemingómez includes 2 biomethanation plants, Las Palomas and Las Dehesas,which annually generate over 34,2 MNm3/year of biogas.Now 55% of this biogas is being treated for injection into the natural gas grid. The remainder (45%), which cannot be optimized due to lack of processing capacity at the plant, is flare-burned. This project generates an additional injection of 10.377,85 t/y of biomethane.In energy terms, this is equivalent to substitution of 300,305 GJ/year of energy from fossil sources. Of this, 72,8% (7.555,42 t /y)will be used in activities excluded from the greenhouse gas emission allowance trading scheme, so that they are included within the scope of the projects. Climate for the calculation of emissions. This means a reduction of greenhouse gas emissions of 20,563 tCO2eq /y ,due to the substitution of fossil source natural gas for a renewable fuel.The lifetime of the initiative is about 15 years.For this 4 years the CO2 tons reduction would be 63.402,08 tones CO2e and, the total external funding would be 615,000,18 €

## Initiative category & Initiative type

Low-carbon energy consumption	Biogas
Low darbon chergy consumption	Diogas

# Estimated annual CO2e savings (metric tonnes CO2e)

8064

# Scope(s)

Scope 1

### Voluntary/Mandatory

Voluntary

### Annual monetary savings (unit currency - as specified in C0.4)

78221

### Investment required (unit currency - as specified in C0.4)

4565600

### Payback period

16-20 years

### Estimated lifetime of the initiative

16-20 years

### Comment

NATURE OF ACTIVITY It is intended to expand the current Ecopark's installation of Toledo to valorize 9,500 annual tons of solid recovered fuel (SRF), coming from the Ecopark's activity. The development of this project reduces the greenhouse gas emissions, due to the valorization of this waste sent to landfill, as well as the acquisition of second generation biofuel, avoiding the fossil fuel consumption. Thus, the annual average reduction of emissions come from: - 2,681 t CO2 eq from SRF biomass not placed at landfill - 5,402 t CO2 eq from the substitution of diesel oil C SCOPE TYPE Scope 1 and 3 REGULATIONS This initiative is VOLUNTARY The lifetime of the initiative is about 15 years, but the reduction of CO2 tons funding is only for the first 4 years .For this 4 years the CO2 tons reduction would be 32.256 tones CO2 eq and, the total external funding would be 312883,2 €.

## Initiative category & Initiative type

Other, please specify	Other, please specify (Energy efficiency: Street lightning)

### Estimated annual CO2e savings (metric tonnes CO2e)

1133

### Scope(s)

Scope 2 (market-based)

## Voluntary/Mandatory

Mandatory

### Annual monetary savings (unit currency - as specified in C0.4)

339481

### Investment required (unit currency - as specified in C0.4)

1454000

## Payback period

4-10 years

# Estimated lifetime of the initiative

11-15 years

### Comment

Ferrovial Services has installed Led technology in the street lighting all over Alcantarilla city. This technology, in addition to reduce the energy consumption and the CO2

### Initiative category & Initiative type

О	ther, please specify	Other, please specify (Energy efficiency: Street lightning)	
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## Estimated annual CO2e savings (metric tonnes CO2e)

397

### Scope(s)

Scope 2 (market-based)

# Voluntary/Mandatory

Mandatory

## Annual monetary savings (unit currency - as specified in C0.4)

106987

# Investment required (unit currency – as specified in C0.4)

507000

## Payback period

4-10 years

## Estimated lifetime of the initiative

11-15 years

### Comment

Ferrovial Services has installed Led technology in the street lighting all over Vedra city. This technology, in addition to reduce the energy consumption and the CO2

## Initiative category & Initiative type

Other, please specify	Other, please specify (Energy efficiency: Street lightning)
Other, please specify	Other, please specify (Effergy efficiency, Street lightning)

## Estimated annual CO2e savings (metric tonnes CO2e)

215

Scope(s)

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency - as specified in C0.4)

75106

Investment required (unit currency - as specified in C0.4)

521000

Payback period

4-10 years

Estimated lifetime of the initiative

16-20 years

Comment

Ferrovial Services has installed Led technology in the street lighting all over Torres de Cotilla city. This technology, in addition to reduce the energy consumption and the CO2

Initiative category & Initiative type

Other, please specify

Other, please specify (Energy efficiency: Street lightning)

Estimated annual CO2e savings (metric tonnes CO2e)

385

Scope(s)

Scope 2 (market-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency - as specified in C0.4)

70000

Investment required (unit currency - as specified in C0.4)

652000

Payback period

4-10 years

Estimated lifetime of the initiative

16-20 years

Comment

Ferrovial Services has installed Led technology in the street lighting all over Torrejón city. This technology, in addition to reduce the energy consumption and the CO2

Initiative category & Initiative type

Energy efficiency in buildings

Other, please specify (biomass boilers)

Estimated annual CO2e savings (metric tonnes CO2e)

336

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

15300

Investment required (unit currency - as specified in C0.4)

76000

Payback period

4-10 years

Estimated lifetime of the initiative

6-10 years

Comment

Replacement conventional boiler for biomass boiler located in Nursing Home in Leon City.

Initiative category & Initiative type

Energy efficiency in buildings

Lighting

Estimated annual CO2e savings (metric tonnes CO2e)

181

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency - as specified in C0.4)

34000

Investment required (unit currency - as specified in C0.4)

102000

Payback period

1-3 years

Estimated lifetime of the initiative

11-15 years

Comment

Replacement conventional indoor lighting. New LED lighting in Recycling Plant located in Murcia City

Initiative category & Initiative type

Other, please specify

Other, please specify (fleet vehicles)

Estimated annual CO2e savings (metric tonnes CO2e)

5498

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency - as specified in C0.4)

1824456

Investment required (unit currency - as specified in C0.4)

12827040

Payback period

4-10 years

Estimated lifetime of the initiative

6-10 years

Comment

NATURE OF ACTIVITY 1) Ferrovial provides its contractors with a fleet of cars to carry out their activities in the cities. They have a target it is to increase the fleet of the company cars powered by alternative energies annually. So, when they have to change old cars or to by news cars in a contract they buy alternative vehicles. The fuel used is biodiesel, natural gas, liquefied natural gas, electric and bimodal. 2) Both companies have sophisticated system for monitoring and designing routes to optimize resources in urban services contracts, which have a particular impact on the industrial fleet. In 2019, 5498 tonnes of CO2e have been avoided by using these 825 vehicles that use alternative fuels. SCOPE TYPE Scope 1: Vehicles owned or controlled by the company. REGULATIONS Incorporating alternative vehicles to our fleet is VOLUNTARY, as well as software development that helps optimizing routes within the city and thus to be more efficient than...It is estimated that the lifetime of a vehicle is a little more than 5 years

Initiative category & Initiative type

Other, please specify

Other, please specify (Behavorial change)

Estimated annual CO2e savings (metric tonnes CO2e)

8844

Scope(s)

Scope 3

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency - as specified in C0.4)

5430623

Investment required (unit currency – as specified in C0.4)

0

Payback period

<1 year

Estimated lifetime of the initiative

<1 year

Comment

NATURE OF ACTIVITY Ferrovial Agromán has worked on reducing Scope 3 emissions by focusing on work site, reduction of earth transportation distances made by trucks. So, there is a decrease of the fuel consumption. SCOPE TYPE Scope 3: Purchased goods and services REGULATIONS The implementation of these practices is

## Initiative category & Initiative type

Transportation	Other, please specify (Car Sharing)
Transportation	Otter, please specify (Car Sharing)

## Estimated annual CO2e savings (metric tonnes CO2e)

1890

### Scope(s)

Scope 2 (market-based)

### Voluntary/Mandatory

Voluntary

## Annual monetary savings (unit currency - as specified in C0.4)

5000000

### Investment required (unit currency - as specified in C0.4)

9355000

### Payback period

4-10 years

### Estimated lifetime of the initiative

6-10 years

### Comment

Car Sharing free floating. New generation of electric carsharing towards cleaner cities. The Alliance of Ferrovial and Renault will use 750 units of the new electric vehicle, with 400 kilometers of autonomy and that will extend the range of action beyond the M-30 in Madrid. The service in Madrid is reinforced with the increase in vehicles during 2019. The Zity brand grows by expanding its network in European cities such as Paris in 2020

## C4.3c

## (C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Compliance with regulatory requirements/standards	The emerging policy environment around emissions and climate change is one of the defining drivers of Grupo Ferrovial's business sectors over the coming decades. Ferrovial has been working on these issues since 2010 when it started with the Project "Ferrovial Positioning 2015 Project" focused on our Strategic Positioning by 2015-2020, under a likely "post-Copenhagen" market environment. During 2019 as part of the new strategy of the company we achieved a new plan called "deep decarbonization plan" focused on Ferrovial climate strategy for 2020-2050. This Plan that includes commitments of renewable energy, renovation of fleet and reduction emissions by stationary sources.
Financial optimization calculations	The evolution on prices of raw materials (for instance: steel, wood) and energy (in particular fossil fuels and electricity) has an impact on operating costs and thus on the profit & lost accounts.
Internal incentives/recognition programs	Ferrovial is committed to fight climate change. Its attitude requires to provide results and a commitment of improvement.
Lower return on investment (ROI) specification	In energy efficiency measures implemented in offices the amortization period is important issue when assessing what measures can be implemented. This study is important especially in those offices where we are renting.
Internal incentives/recognition programs	Top executive levels (including CEO of Ferrovial) at the corporate and top and medium levels in business units have part of their salary set as a variable (incentives) and this is linked to the objectives achieved (individual and collective performance indicator) where reference is made to compliance with the strategic plan of the company where they are included, for example, the establishment of the objectives endorsed by SBTi, emission reduction projects, review of objectives, stay In the main sustainability indexes
Other	Ferrovial has signed some voluntary agreements. For Ferrovial is very important the communication related to climate change and the positioning of the company within the most important indexes worldwide
Financial optimization calculations	Ferrovial has announced the signature with 16 financial entities of its liquidity line where the ESG criteria (Environment, Social and Governance) are introduced. It is the first financing in which the company has linked the margin to its results in terms of sustainability. As a result of the commitment of all areas of the company the agreement closed with the bank union allows to transfer the improvement of the company in the environmental, social and governance qualifications in the next five years, to the costs of financing.
Internal price on carbon	In the preinvestment process in large contracts, a tool is available to consider variable prices for a ton of carbon over different time horizons and across different regions and project types, internalizing the potential economic risk linked to climate change (including physical impacts, as well as those of a social, regulatory and socio-economic nature, among others). This helps reduce the inherent uncertainty associated with legislation relating to climate change, considering a realistic quantification of the possible costs associated with each project.

# C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

### C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.

#### Level of aggregation

Product

### Description of product/Group of products

Ferrovial offers to the third parties an option to reduce their emissions with the use of our products or services. "Integrated City Management" is an example: (i) Ferrovial, carries out innovative project in cities of UK. This is an integrated management project of all city's assets, including roads, lighting, traffic management, sidewalks, sewers, .... The aim is to optimize processes by increasing efficiency and reducing environmental impact. This allows for 20% improvements in efficiency and 30% in the productivity of the services. A good example is a street lighting that includes LED technology, enabling centralized control of lighting, depending on activities in each urban space. There were installed around 8,000 points. The fleet vehicles have an intelligent software installed, allowing route optimization, minimizing traffic congestion and reduce fuel consumption. In addition, green vehicles are being used as an alternative to fossil fuels.In this way, Ferrovial helps to reduce scope 1&2 of our clients. (ii) This contract was signed for 25 years and only in the first year all objectives have been achieved. In the first year of its operation, monetary savings of 2,400,000 € in energy were achieved distributed as follows: - 1,568,000 € in electricity street lighting. Electricity savings represent 11,495 MWh and 3,345 t CO2e - 832,000 € in fossil fuel (diesel) used by fleet vehicles. Assumes a diesel savings of 1,361,267 I and 3628.592 t CO2e. The contract will last 25 years and because it is estimated that annually we are going to obtain the same results compared to the base year, we can say that we help to reduce energy consumption in the city - 287,375 MWh of electricity in the street lighting. This equates to the cost savings of 39,200,000 € and 83,629 t CO2e. - 34,031,675 I diesel used by fleet vehicles. This equates to the cost savings of 20,800,000 € and 90.714.8 t CO2e.

### Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

## Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (GHG protocol)

### % revenue from low carbon product(s) in the reporting year

20

### % of total portfolio value

<Not Applicable>

### Asset classes/ product types

<Not Applicable>

#### Comment

To calculate avoided emissions, we have used "GHG emissions from transport or mobile sources" of "The Greenhouse Gas Protocol Initiative" for diesel and "GHG emissions from purchased electricity" for electricity. These emission factors used include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. We have estimated that 1€ = 1.38 British Pounds. Regarding fleet vehicles, we estimate that the new alternative vehicles replace vehicles that use diesel and in the case of traffic management we also consider that the fuel savings refer to savings in diesel. The legislation applicable to Ferrovial business does not include the generation of ERUs and CERs.

### Level of aggregation

Company-wide

# Description of product/Group of products

Ferrovial offers to the third parties an option to reduce their emissions by the use of our products or Ferrovial works to ensure that its products and services are low emission and that they contribute to the transition to the low carbon economy Search efficiency in services and products such as: optimization of service routes, reduction of transport distance in works, reuse of materials to avoid burning in landfills, improvement of technology for the capture of biogas, avoiding own diffuse emissions. In 2019, Ferrovial works with the third parties avoiding following emissions Distance and transport reduction: 8844 tCO2e Improvement of the technology for the capture of biogas: 1201445 tCO2e

### Are these low-carbon product(s) or do they enable avoided emissions?

Low-carbon product and avoided emissions

## Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify (GHG protocol)

### % revenue from low carbon product(s) in the reporting year

55

## % of total portfolio value

<Not Applicable>

## Asset classes/ product types

<Not Applicable>

# Comment

To calculate avoided emissions, we have used "GHG emissions from Stationary combustion tool" of "The Greenhouse Gas Protocol Initiative" for gas and "GHG emissions from purchased electricity" for electricity. These emission factors used are include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. The legislation applicable to Ferrovial business does not include the generation of ERUs and CERs

### C5. Emissions methodology

C5.1

## (C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

### Scope 1

### Base year start

January 1 2009

### Base year end

December 31 2009

## Base year emissions (metric tons CO2e)

911740

#### Comment

Ferrovial will recalculate its emissions whenever there is a structural change, a change to calculation methodology (emission factors, approach ...) or changes in annual consumption levels

### Scope 2 (location-based)

### Base year start

January 1 2009

# Base year end

December 31 2009

### Base year emissions (metric tons CO2e)

161975

#### Comment

Ferrovial will recalculate its emissions whenever there is a structural change, a change to calculation methodology (emission factors, approach ...) or changes in annual consumption levels

## Scope 2 (market-based)

### Base year start

January 1 2009

### Base year end

December 31 2009

## Base year emissions (metric tons CO2e)

158492

### Comment

Ferrovial will recalculate its emissions whenever there is a structural change, a change to calculation methodology (emission factors, approach ...) or changes in annual consumption levels

# C5.2

## (C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Defra Voluntary 2017 Reporting Guidelines

ISO 14064-1

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

## C6. Emissions data

# C6.1

### (C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

### Reporting year

### Gross global Scope 1 emissions (metric tons CO2e)

791974

### Start date

January 1 2019

#### End date

December 31 2019

### Comment

### Past year 1

### Gross global Scope 1 emissions (metric tons CO2e)

817084

### Start date

January 1 2018

### End date

December 31 2018

### Comment

The 2018 data has been recalculated since they were reporting consumption that was beyond the control of the company's operation.

### Past year 2

### Gross global Scope 1 emissions (metric tons CO2e)

861251

### Start date

January 1 2017

### End date

December 31 2017

### Comment

### Past year 3

### Gross global Scope 1 emissions (metric tons CO2e)

911740

## Start date

January 1 2009

### End date

December 31 2009

Comment

# C6.2

## (C6.2) Describe your organization's approach to reporting Scope 2 emissions.

# Row 1

# Scope 2, location-based

We are reporting a Scope 2, location-based figure

## Scope 2, market-based

We are reporting a Scope 2, market-based figure

### Comment

We have used GHG Protocol Scope 2 to calculate Ferrovial scope 2. The method used by Ferrovial to calculate its scope 2 is "market based". Thus, in calculating emissions we have used an emissions factor of 0 metric tons of CO2 equivalent/Kwh contributed by suppliers for purchased electricity from renewable sources with a guarantee of origin (GO). For electricity which does not come from renewable sources we have used the country mix because not all the countries in which we operate have available a residual mix. Emissions included under the "location based" section are higher than those under the "market based" method, because the emissions factor contributed by suppliers for renewable electricity are not taken into account in that approach"

## C6.3

# (C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

### Reporting year

### Scope 2, location-based

13/1663

### Scope 2, market-based (if applicable)

69326

### Start date

January 1 2019

### End date

December 31 2019

#### Comment

Past year 1

### Scope 2, location-based

151622

### Scope 2, market-based (if applicable)

91430

### Start date

January 1 2018

### End date

December 31 2018

#### Comment

The 2018 data has been recalculated since they were reporting consumption that was beyond the control of the company's operation.

### Past year 2

### Scope 2, location-based

165941

### Scope 2, market-based (if applicable)

111932

## Start date

January 1 2017

### End date

December 31 2017

### Comment

## Past year 3

# Scope 2, location-based

160577

## Scope 2, market-based (if applicable)

158492

## Start date

January 1 2009

## End date

December 31 2009

Comment

## C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

# C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

#### Purchased goods and services

### **Evaluation status**

Relevant, calculated

#### Metric tonnes CO2e

426605

#### **Emissions calculation methodology**

(i) This category includes all upstream (i.e., cradle-to-gate) emissions from the production of products purchased by the reporting year. Ferrovial considered the most relevant materials from the environment and total purchases side (Timber, paper, steal, asphalt, concrete and water) that are used in products that we supply. Enablon is the platform used to gather the data required to obtain the quantity of materials purchased and to write the Annual Report. To calculate emissions, we use 2015 DEFRA Conversion Factors: Annex 14 "Indirect emissions resulting from Material Consumption and Waste Disposal" for materials and waste and Annex 9 "Bioenergy & Water Conversion Factor Tables" for water. These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) We considered quantity of the most relevant materials from the environment and total purchases. These data are reported annually by businesses for compiling the Annual Report and are audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" PwC. Therefore the quality of data and emissions reported is high. (iii) The calculation methodology consists of multiplying the amount of materials, reported (Tons) by the conversion factor of each material purchased (Tneq.CO2/Tons of material). We used 2015 DEFRA Conversion Factors: Annex 14 "Indirect emissions resulting from Material Consumption and Waste Disposal" for materials and waste and Annex 9 "Bioenergy & Water Conversion Factors: Annex 14 "Indirect emission factors include the transportation part that are included in section "Upstream transportation and distribution". In order not to double the emiss

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

### Capital goods

#### Evaluation status

Relevant, calculated

#### **Metric tonnes CO2e**

118081

#### **Emissions calculation methodology**

(i) This category includes all upstream (i.e., cradle-to-gate) emissions from the production of capital goods purchased or acquired by the reporting company in the reporting year. Capital goods are final products that have an extended life and are used by the company to manufacture a product; provide a service; or sell, store, and deliver merchandise. In this category, Ferrovial has considered the total capital goods purchased. The capital goods include "Equipment and machinery", "Construction projects" and "Facilities, office equipment and furniture". To calculate emissions, we used 2015 DEFRA Conversion Factors: in Annex 13 "— Indirect emissions from the supply chain.". The emission factors presented in this Annex cover indirect emissions from the supply chain. Indirect emissions are those which are generated by other organizations as part of the process of providing goods and services to our company. These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category we considered the total investment in capital goods. These data are reported annually by businesses for compiling the Annual Report and are audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) The calculation methodology consist of multiplying the investment by the conversion factor. We have used 2015 DEFRA Conversion Factors (Annex 13 "Indirect emissions from the supply chain").

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

### Please explain

Fuel-and-energy-related activities (not included in Scope 1 or 2)

# Evaluation status

Relevant, calculated

# Metric tonnes CO2e

136217

### Emissions calculation methodology

(i) Includes emissions from: 1) For upstream emissions of purchased fuels. The conversions factors used are collected in the appendix 2 of WTW ("Well-to-Wheels analysis of future automotive fuels and powertrains in the European context WELL-TO-TANK Report. Version 3.0"). 2) For upstream emissions of purchased electricity. The conversion factors used are collected in the appendix 2 OF WTW. 3) For T&D losses. GHG protocol conversion factors for electricity are used. In this category, Ferrovial has considered data used to calculate scope 1&2 (purchased fuels and electricity). In this category we include Transchile emissions. These data include purchased fuel and electricity. These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) Date considered are quantity of fuel and electricity purchased. These data are reported annually by businesses for compiling the Annual Report and are audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) 1) For upstream emissions of purchased fuels. To calculate the emissions the conversion factors used are collected in the appendix 2 of WTW. Concretely, conversion factors used correspond to diesel, petrol and LPG. 2) For upstream emissions of purchased electricity: - Stage 1: The source used is the data from the electric system's generation by source type (IEA, 2011) - Stage 2: To the previous result applies the conversion factors collected in the appendix 2 of WTW. Concretely, conversion factors used, in the electricity section tables but without considering the electricity generation s

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

### Upstream transportation and distribution

### **Evaluation status**

Relevant, calculated

#### Metric tonnes CO2e

376832

#### **Emissions calculation methodology**

(i) This category includes emissions from transportation and distribution of products purchased in the reporting year. This included third-party transportation and distribution services purchased. Ferrovial considered the most relevant materials from the environment and total purchases side. These materials were used in products that we supply. These materials were: Timber, paper, steal, asphalt, water and concrete. The Enablon application is the source we used to obtain the quantity of materials purchased. To know the origin of the materials purchased we have used sectorial reports. To calculated emissions, we have used "GHG emissions from transport or mobile sources" of "The Greenhouse Gas Protocol Initiative". These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category we have considered quantity of the most relevant materials. These data are reported annually by businesses through Enablon application to write the Annual Report that are audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. To know the origin of the materials purchased we renowned sectorial reports. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) To calculate the emissions in this section we used the following calculation tool: "GHG emissions from transport or mobile sources" provided by "The Greenhouse Gas Protocol Initiative". The information required are: -Quantity of the most relevant materials purchased: Timber, paper, steal, asphalt and concrete. - Origin of these materials purchased and quantity of materials purchased we have renowned sectorial reports. - The type of tra

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

### Waste generated in operations

#### **Evaluation status**

Relevant, calculated

#### **Metric tonnes CO2e**

141389

#### **Emissions calculation methodology**

(i) This category includes emissions from third-party disposal and treatment of waste generated in the reporting company's owned or controlled operations in the reporting year. This category includes emissions from disposal of both solid waste and wastewater. In this category, Ferrovial considered the total of solid waste (Construction and Demolition Waste (CDW); Urban or similar waste; Wood; Garden waste, Hazardous waste, Total reused soil from excavation and Soil from excavation sent to landfill) and wastewater generated in our operations. We used 2015 DEFRA Conversion Factors: Annex 14 "Indirect emissions resulting from Material Consumption and Waste Disposal" for solid waste and Annex 9 "Bioenergy & Water Conversion Factor Tables" for wastewater. These emission factors include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) We considered quantity of the total of solid waste and wastewater generated in our operations. These data are reported annually by businesses though Enablon application to write the Annual Report and are audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) The calculation methodology consists on multiplying the amount of waste reported (Tons) by the conversion factor of each waste (Tneq.CO2/Tons of waste). We used 2015 DEFRA Conversion Factors in Annex 14 for waste and Annex 9 for wastewater. In order to avoid double-counting, the emissions associated with recycling are attributed to the user of the recycled materials, and the same attribution approach was also applied to the emissions from energy generation from waste . Only transportation and minimal preparation

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

### **Business travel**

**Evaluation status** 

Relevant, calculated

Metric tonnes CO2e

### **Emissions calculation methodology**

(i) This category includes emissions from the transportation of employees for business related activities in vehicles owned or operated. In this category, Ferrovial emissions from business travel arose from air travel, rail travel, taxi travel and automotive travel. We had distance travelled by air, rail and automotive and expense of taxi travel. To calculated Ferrovial emissions, we have used "GHG emissions from transport or mobile sources" of "The Greenhouse Gas Protocol Initiative" except Amey that use 2015 DEFRA conversion factor. These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category we considered data provided by the travel agency through which Ferrovial purchases train and plane tickets; data provided by our accounting department on taxi expenditure and data supplied by the business on the use of vehicles. Data, methodology and emissions of this section had been audited and verified are audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) To calculate the emissions in this section we used the following calculation tool: "GHG emissions from transport or mobile sources" provided by "The Greenhouse Gas Protocol Initiative". The information required were: - The type of transport used by passenger - Distance In the case of Amey, we have used 2015 DEFRA Conversion Factors (Annex 6 "Passenger Transport Conversion Tables". Assumptions: We consider that business travel is made in diesel driven cars and train trips are made in conventional train and not a high speed ones

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

#### **Employee commuting**

### **Evaluation status**

Relevant, calculated

#### Metric tonnes CO2e

1763

#### **Emissions calculation methodology**

(i) This category includes emissions from the employee's commuting from their homes to workplace . Ferrovial carried out a mobility survey to the group's employees, which has been the source to know the mode of transport and distance traveled from home to the workplace . Other source used is the number of people working in offices. This data is provided by the human resources department. To calculate emissions, we used the calculation tool "GHG emissions from transport or mobile sources emitted" provided by "The Greenhouse Gas Protocol Initiative" (GHG Pl). These emission factors used were in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high . (iii) To calculate the emissions in this section we used the following calculation tool: "GHG emissions from transport or mobile sources" provided by "The Greenhouse Gas Protocol Initiative". The information required are: Number of employee - Distance from home to work - Type of transport: car, motorbike, subway, bus and train. Assumptions: Ferrovial within this section calculates the emissions of employees from construction, services, infrastructures and Ferrovial group that work at offices. As we do not know the type of motorbike and train used we have chosen in column "vehicle type": "Control unknown for motorbike" and "Average Light rail and Train" for train. Ferrovial does not have operational control over airports because it only has a 25% share of the company. In this case,

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

### Upstream leased assets

#### **Evaluation status**

Not relevant, calculated

### Metric tonnes CO2e

0

### **Emissions calculation methodology**

(i) This category includes emissions from the operation of assets are leased by the company and not included in scope 1 or 2 inventory. Due to the type of rental agreement Ferrovial has, the emissions from the operation of assets are included within the Scope 1&2. However, we consider important to include in this group emissions related to electricity consumption of our customers' buildings in which we provide maintenance and cleaning services. This requires knowing the number of buildings in which we carry on this type of activity and the surface of these buildings in order to estimate the kWh consumed, based on consumption information in similar buildings we have. To calculated emissions, we have used 2015 DEFRA Conversion Factors (Annex 3 "Converting from purchased electricity, heat and stream use to carbon dioxide equivalent emissions"). These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. ii) In this category we considered the number of buildings in which we carry on this type of activity and the surface of these buildings in order to estimate the kWh consumed, based on consumption information in similar buildings we have. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) The calculation methodology consists of multiplying the amount of electricity estimated (Kwh) by the conversion factor for electricity (Tneq.CO2/kwh). We have used 2015 DEFRA Conversion Factors in Annex 3 "Converting from purchased electricity, heat and stream use to

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

### Downstream transportation and distribution

### **Evaluation status**

Not relevant, calculated

### Metric tonnes CO2e

0

### **Emissions calculation methodology**

This category includes emissions that occur from transportation and distribution of sold products in vehicles and facilities not owned or controlled by the reporting company. Ferrovial's activity consists on providing services or construct and manage infrastructures in situ. Ferrovial does not sell any product that has to be transported or stored in other facility. Therefore, the emissions in this category are zero.

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

#### Processing of sold products

### **Evaluation status**

Not relevant, calculated

#### Metric tonnes CO2e

Λ

#### **Emissions calculation methodology**

This category includes emissions from processing of sold intermediate products by third parties (e.g., manufacturers) subsequent to sale by company. Intermediate products are products that require further processing, transformation, or inclusion in another product before use and therefore result in emissions from processing subsequent to sale and before use by the end consumer. Ferrovial's activity consists on providing services or to construct and to manage infrastructures in situ. Ferrovial does not sell intermediate products that require further processing, transformation or inclusion in another product before use by the end consumer. So, the emissions in this category are zero

#### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

#### Please explain

Use of sold products

#### **Evaluation status**

Relevant, calculated

#### Metric tonnes CO2e

692499

### **Emissions calculation methodology**

(i) This category includes emissions from the use of transport infrastructures of Cintra. The tool used to calculate emission in European toll roads is called COPERT IV. This is done by using global warming potential proposed by IPCC. The tool used to calculate GHG emissions in the USA toll road is called MOVES. MOVES is a simulator of emissions from motor vehicles developed by the Environmental Protection Agency of the United States. The data necessary to introduce in these tools come from Enablon that it is the application used to gather data for the Annual Report of Ferrovial. These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e. The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category we considered for European highways: highway length, IMD (average daily traffic),% of light and heavy vehicles. In American highways, in addition to the previous data, speed, the state, county and type of the highway. These data are reported annually by businesses to write the Annual Report and were audited and verified in accordance with ISAE 3000 by Deloitte. Furthermore, data, methodology and emissions of this section were audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) 1) The methodology used for European toll roads is a spread sheet to estimate GHG emissions generated by vehicles on one or more sections of road. The final result is presented in units of CO2 equivalent. This is done by using global warming potential proposed by IPCC for the realization of Greenhouse Gases inventories. The methodology is based on "COPERT IV Computer Programme to Calculate Emissions from Road Transport". 2) American Highways. The tool used is called MOVES and is a simulator of emissions from motor vehicles developed by the Environmental Protection Agency of the United States (US-EPA). Regarding input data, th

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

### Please explain

### End of life treatment of sold products

### Evaluation status

Relevant, calculated

### Metric tonnes CO2e

28070

### **Emissions calculation methodology**

(i) This category includes emissions from the waste disposal and treatment of products sold in the reporting year at the end of their life. Regarding products sold, those are infrastructures' construction. The purchased goods are included in these infrastructures. Therefore, at the end of infrastructures' useful life the waste produced correspond to those ones. To calculate emissions, we used 2015 DEFRA Conversion Factors: Annex 14 "Indirect emissions resulting from Material Consumption and Waste Disposal" for solid waste. These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category we considered the most relevant materials from the environment and volume point of view are included in the infrastructures' construction, being timber, paper, barrier, asphalt and concrete. Therefore, at the end of infrastructures' useful life the waste produced correspond to those ones. These data are reported annually by businesses to write the Annual Report and are audited and verified in accordance with the standards and procedures included in the International Standards on Assurance Engagements (ISAE 3000) by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) Regarding products sold, those are infrastructures' construction. The purchased goods are included in these infrastructures. Therefore, at the end of infrastructures' useful life the waste produced correspond to those ones. In this case the most relevant materials from the environment and volume point of view are included in the infrastructures' construction, being timber, paper, barrier, asphalt and concrete. The calculation methodology consists of multiplying the amount of material used (Tons) b

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

#### Downstream leased assets

### **Evaluation status**

Not relevant, calculated

#### Metric tonnes CO2e

Λ

#### **Emissions calculation methodology**

This category includes emissions from the operation of assets that are owned by the reporting company (acting as lessor) and leased to other entities in the reporting year. Ferrovial does not have rented assets. Then, emissions in this category are zero

#### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

### Franchises

#### **Evaluation status**

Not relevant, calculated

#### **Metric tonnes CO2e**

0

### **Emissions calculation methodology**

This category includes emissions from the operation of franchises not included in scope 1 or scope 2. A franchise is a business operating under a license to sell or distribute another company's goods or services within a certain location. This category is applicable to franchisors (i.e., companies that grant licenses to other entities to sell or distribute its goods or services in return for payments, such as royalties for the use of trademarks and other services). Franchisors should account for emissions that occur from the operation of franchises (i.e., the scope 1 and scope 2 emissions of franchisees) in this category. Ferrovial is not a franchisor. So, emissions in this category are

#### Percentage of emissions calculated using data obtained from suppliers or value chain partners

100

Please explain

### Investments

#### Evaluation status

Relevant, calculated

#### **Metric tonnes CO2e**

569388

### **Emissions calculation methodology**

Data for 2019 is not available as of the questionnaire release date, and therefore emissions figures for 2018 are used. (i) This category is applicable to Ferrovial that is investors in HAH (Heathrow Airport Holdings) (25 % share of HAH). Ferrovial considerer 25% of scope 1&2&3. To calculated emissions, HAH uses 2015 DEFRA Conversion Factors. These emission factors are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) HAH publish every year the "Sustainability performance summary" with the scope 1&2&3 emissions. An external consulting carried out an independent verification of these emissions in accordance with the requirements of the Airport Carbon Accreditation Scheme and ISO14064-3. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements on Greenhouse Gas Statements" by PwC. Therefore the quality of data and emissions reported is high. (iii) Ferrovial considerer 25 % of total scope 1&2 and the most relevant items of Scope 3 (Air traffic movements, Employee Commuting and Passenger transport): - Scope 1&2. DEFRA emission's factors were used. Date used was compiled at the airports in invoices, meters and other type of registers generated due to the airport's activity. - Air traffic movements. Emissions from the LTO cycle cover all aircraft movements below an altitude of 3000ft (1000m), including approach, landing, taxi-in, taxi-out, take-off, and climb-out. Emissions were calculated based on UNFCCC reporting methodology developed by AEA Technology plc. Data was obtained for airport specific times in mode, as well as aircraft movements by type and engine fit. - Employee Commuting. A staff survey was done for each airport recording the locations of staff residences, usual travel modes and information on days worked. This includes all HAH staff and third party company staff. Defra emission facto

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

Please explain

Other (upstream)

**Evaluation status** 

### Metric tonnes CO2e

<Not Applicable>

### **Emissions calculation methodology**

<Not Applicable>

# Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Other (downstream)

**Evaluation status** 

Metric tonnes CO2e

<Not Applicable>

**Emissions calculation methodology** 

<Not Applicable>

Percentage of emissions calculated using data obtained from suppliers or value chain partners

<Not Applicable>

Please explain

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Yes

C6.7a

(C6.7a) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO2.

	CO2 emissions from biogenic carbon (metric tons CO2)			
Row 1	788590			

C6.10

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

### Intensity figure

9 57

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

861300

#### Metric denominator

Other, please specify (number of employees)

Metric denominator: Unit total

89968

#### Scope 2 figure used

Market-based

% change from previous year

4.3

#### Direction of change

Decreased

#### Reason for change

In 2019 Ferrovial decreases its emissions in relative terms by 4.3% compared to 2018. The GHG emissions (tCO2e/number of employees) were 10 in 2018 and 9.57 in 2019 ( 0.43 tCO2e /number of employees reduce divide by 10.00 = 4.3% decreased). In 2019 Ferrovial's decreased it's emissions due to implementation of energy efficiency measures in fixed and mobile sources, the most important is the change on the fleet and the important increase of renewable electricity. Some of the main initiatives that have been carried out during 2019 are: - Technology in the street lighting all over Alcantarilla City, Vedra city o Torres de Cotilla city in Spain. - Use of vehicles with alternative fuels - The revalorize of 9,500 annual tons of solid recovered fuel (SRF), coming from the Toledo Ecopark's activity

#### Intensity figure

412.69

Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

861300

### Metric denominator

Other, please specify (millions of euros pay by taxes by Ferrovial )

Metric denominator: Unit total

2087

### Scope 2 figure used

Market-based

% change from previous year

4.71

### Direction of change

Decreased

### Reason for change

In 2019 Ferrovial decreases its emissions in relative terms by 4.71 % compared to 2018. The GHG emissions (tCO2e/taxes) were 412.69 in 2019 and 433.10 in 2018 (20.41 tCO2e /taxes reduce divide by 433.1 = 4.71 % decreased). In 2019 Ferrovial's decreased it's emissions due to implementation of energy efficiency measures in fixed and mobile sources, the most important is the change on the fleet and the important increase of renewable electricity. Some of the main initiatives that have been carried out during 2019 are: - Technology in the street lighting all over Alcantarilla City, Vedra city o Torres de Cotilla city in Spain. - Use of vehicles with alternative fuels - The revalorization of 9,500 annual tons of solid recovered fuel (SRF), coming from the Toledo Ecopark's activity

### C7. Emissions breakdowns

# C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Yes

# C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	559635	IPCC Second Assessment Report (SAR - 100 year)
CH4	230951	IPCC Second Assessment Report (SAR - 100 year)
N2O	1388	IPCC Second Assessment Report (SAR - 100 year)

(C7.2) Break down your total gross global Scope 1 emissions by country/region.

Country/Region	Scope 1 emissions (metric tons CO2e)
Australia	20023
Canada	9616
Chile	23580
Colombia	3601
France	84
New Zealand	7702
Poland	64373
Portugal	61222
Puerto Rico	696
Saudi Arabia	464
Slovakia	10902
Spain	275044
United Kingdom of Great Britain and Northern Ireland	236993
United States of America	77674

# C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

By business division

By facilit

By activity

# C7.3a

(C7.3a) Break down your total gross global Scope 1 emissions by business division.

Business division	Scope 1 emissions (metric ton CO2e)
Airports (Transchile)	17
Construction (Ferrovial Agroman, Budimex, Webber, Cadagua)	192231
Corporation (Ferrovial Corporacion)	219
toll roads (Cintra)	2053
Services (Amey, Ferrovial Services, Broadspectrum)	597453

# C7.3b

(C7.3b) Break down your total gross global Scope 1 emissions by business facility.

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Diffuse emissions (Biogas from landfill)	228071	40.44461	-3.678546
Stationary equipment (boilers)	7591	40.44461	-3.678546
Stationary equipment (construction site machinery)	284964	40.44461	-3.678546
mobile equipment	271220	40.44461	-3.678546
Fugitive emissions	128	40.44461	-3.678546

# C7.3c

(C7.3c) Break down your total gross global Scope 1 emissions by business activity.

Activity	Scope 1 emissions (metric tons CO2e)	
Infrastructure maintenance and facility management and waste treatment (Amey, Ferrovial Services, Broadspectrum)	597453	
Water treatment plants (Cadagua)	606	
Infrastructure management (Cintra)	2053	
Construction ( Ferrovial Agroman, Budimex, Webber)	191625	
Corporation	219	
Electric transmission line (Transchile)	17	

(C7.5) Break down your total gross global Scope 2 emissions by country/region.

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted for in Scope 2 market-based approach (MWh)
Australia	8045	8045	10070	
Canada	483	483	3201	
Chile	203	203	421	
Colombia	25	25	200	
Slovakia	20	20	101	
Spain	12709	68399	221997	182376
New Zealand	272	272	1568	
Oman	423	423	702	
Poland	15953	18182	24055	2949
Portugal	6133	7333	20149	3298
Puerto Rico	203	203	334	
United Kingdom of Great Britain and Northern Ireland	3362	9581	35193	24330
United States of America	21493	21493	38765	
France	3	3	36	

# C7.6

(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

By business division

By facility

By activity

### C7.6a

(C7.6a) Break down your total gross global Scope 2 emissions by business division.

Business division	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Construction (Ferrovial Agroman, Budimex, Webber, Cadagua)	64705	35896
Corporation (Ferrovial Corporacion)	360	360
Toll roads (Cintra)	7907	7563
Services (Amey, Ferrovial Services, Broadspectrum)	61691	25507
Airports (Transchile)	1	1

### C7.6b

(C7.6b) Break down your total gross global Scope 2 emissions by business facility.

Facility		Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	
	toll roads	7907	7563	
	Construction sites	64705	35896	
	Offices and contracts	62052	25868	

# C7.6c

(C7.6c) Break down your total gross global Scope 2 emissions by business activity.

Activity	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)
Infrastructure maintenance and facility management and waste treatment (Amey, Ferrovial Services, Broadspectrum)	61691	25507
Water treatment plants (Cadagua)	32798	6713
Infrastructure management (Cintra)	7907	7563
Construction ( Ferrovial Agroman, Budimex,Webber)	31907	29183
Corporation	360	360
Electric transmission line (Transchile)	1	1

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Decreased

### C7.9a

(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	22104	Decreased	2.43	In 2019 we implemented measures in electricity and reduced emissions by 22.104 tCO2e or 2.43% ( 22104 tCO2e in reduced emissions divided by 908514 tCO2e that were Scope 1&2 emissions in 2018 = 2.43%) The reduction is due to an increase of 23,860 MWH In electricity from renewable sources in Budimex, Cadagua, Ferrovial Agroman, Amey, Cintra and Ferrovial Services
Other emissions reduction activities	47214	Decreased	5.19	In 2019, a reduction of 47214 tCO2e or 5.20% ( 47,214 tCO2e in reduced emissions divided by 908,514 tCO2e that were Scope 1&2 emissions in 2018 = 5.2 %) due to implementation of energy efficiency measures in fixed and mobiles sources in Cadagua, Corporation , Broadspectrum , Broadspectrum, Ferrovial Services and Ferrovial Agroman.
Divestment	0	No change	0	Ferrovial in its procedure for the calculation and reporting of carbon footprint establishes that when new acquisitions, disinvestments, mergers, changes in methodology or boundary occur we will recalculate emissions from the base year. Therefore these causes do not affect the evolution of emissions
Acquisitions	0	No change	0	In its procedure for calculation and reporting of its carbon footprint, Ferrovial has a policy of recalculating emissions from the base year when new acquisitions, disinvestments, mergers, or changes in methodology or boundary occur. Emissions performance is not, therefore, affected by such changes
Mergers	0	No change	0	Ferrovial in its procedure for the calculation and reporting of carbon footprint establishes that when new acquisitions, disinvestments, mergers, changes in methodology or boundary occur we will recalculate emissions from the base year. Therefore these causes do not affect the evolution of emissions
Change in output	0	No change	0	Ferrovial in its procedure for the calculation and reporting of carbon footprint establishes that when new acquisitions, disinvestments, mergers, changes in methodology or boundary occur we will recalculate emissions from the base year. Therefore these causes do not affect the evolution of emissions
Change in methodology	0	No change	0	Ferrovial in its procedure for the calculation and reporting of carbon footprint establishes that when new acquisitions, disinvestments, mergers, changes in methodology or boundary occur we will recalculate emissions from the base year. Therefore these causes do not affect the evolution of emissions
Change in boundary	0	No change	0	Ferrovial in its procedure for the calculation and reporting of carbon footprint establishes that when new acquisitions, disinvestments, mergers, changes in methodology or boundary occur we will recalculate emissions from the base year. Therefore these causes do not affect the evolution of emissions
Change in physical operating conditions	0	No change	0	There are not changes in Scope 1&2 because there are not changes in physical operating conditions.
Unidentified	0	No change	0	There are not changes in Scope 1&2 because there are not unidentified matters.
Other	0	No change	0	There are not changes in Scope 1&2 because there are not others matters

# C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Market-based

# C8. Energy

# C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy? More than 0% but less than or equal to 5%

### C8.2

### (C8.2) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

### C8.2a

### (C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	LHV (lower heating value)	0	1665821	1665821
Consumption of purchased or acquired electricity	<not applicable=""></not>	180835	145841	326676
Consumption of purchased or acquired heat	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>
Consumption of purchased or acquired steam	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>
Consumption of purchased or acquired cooling	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>	<not applicable=""></not>
Consumption of self-generated non-fuel renewable energy	<not applicable=""></not>	32117	<not applicable=""></not>	32117
Total energy consumption	<not applicable=""></not>	212952	1811662	2024614

### C8.2b

### (C8.2b) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	No
Consumption of fuel for the generation of heat	No
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

### C8.2c

# (C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

### Fuels (excluding feedstocks)

Diesel

### **Heating value**

LHV (lower heating value)

# Total fuel MWh consumed by the organization

1259015

# MWh fuel consumed for self-generation of electricity

<Not Applicable>

# MWh fuel consumed for self-generation of heat

<Not Applicable>

# MWh fuel consumed for self-generation of steam

<Not Applicable>

### MWh fuel consumed for self-generation of cooling

<Not Applicable>

# MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

# **Emission factor**

2.67633

### Unit

kg CO2e per liter

### **Emissions factor source**

Vehicles diesel: GHG Protocol: 2.67633 kgCO2e/liter DEFRA: 2.62694 kgCO2e/liter Red Diesel: GHG Protocol: 2.67633 kgCO2e/liter DEFRA: 2.62694 kgCO2e/liter Heating diesel: GHG Protocol: 2.68527 kgCO2e/liter DEFRA: 2.97049 kgCO2e/liter.

### Comment

Total consumption of diesel includes: 854188 MwH of diesel vehicles represents 68% of diesel consumption; 397385 MwH of red diesel represent 31% of diesel consumption; 6520 MwH of heating consumption represents 1% diesel consumption. "The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity. Except in the case of Amey, a company located in the United Kingdom, which will use DEFRA's conversion factors. In 2018 Ferrovial has diesel consumption with differents types of diesel as we explain in 8.2C. we report the different types of conversion factor for each

### Fuels (excluding feedstocks)

Residual Fuel Oil

#### Heating value

LHV (lower heating value)

# Total fuel MWh consumed by the organization

43759

### MWh fuel consumed for self-generation of electricity

<Not Applicable>

# MWh fuel consumed for self-generation of heat

<Not Applicable>

### MWh fuel consumed for self-generation of steam

<Not Applicable>

### MWh fuel consumed for self-generation of cooling

<Not Applicable>

#### MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

#### **Emission factor**

2.94857

#### Unit

kg CO2e per liter

#### **Emissions factor source**

GHG protocol

#### Comment

"The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity.

# Fuels (excluding feedstocks)

Motor Gasoline

# Heating value

LHV (lower heating value)

# Total fuel MWh consumed by the organization

162865

# MWh fuel consumed for self-generation of electricity

<Not Applicable>

# MWh fuel consumed for self-generation of heat

<Not Applicable>

### MWh fuel consumed for self-generation of steam

<Not Applicable>

# MWh fuel consumed for self-generation of cooling

<Not Applicable>

### MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

### **Emission factor**

2.27115

# Unit

kg CO2e per liter

### **Emissions factor source**

GHG Protocol : 2,27155 kgCO2e/liter DEFRA : 2,30531 kgCO2e/liter

### Comment

"The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity. Except in the case of Amey, a company located in the United Kingdom, which will use DEFRA's conversion factors.

# Fuels (excluding feedstocks)

Natural Gas

# Heating value

Unable to confirm heating value

### Total fuel MWh consumed by the organization

84546

### MWh fuel consumed for self-generation of electricity

<Not Applicable>

### MWh fuel consumed for self-generation of heat

<Not Applicable>

### MWh fuel consumed for self-generation of steam

<Not Applicable>

### MWh fuel consumed for self-generation of cooling

<Not Applicable>

#### MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

#### **Emission factor**

0.20214

Unit

kg CO2e per KWh

#### **Emissions factor source**

Natural Gas GHG Protocol: 0.20214 kgCO2e/kwh DEFRA: 0.20437 kgCO2e/kwh CNG GHG Protocol: 1,87168 kgCO2e/m3

#### Comment

"The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity. Except in the case of Amey, a company located in the United Kingdom, which will use DEFRA's conversion factors.

### Fuels (excluding feedstocks)

Coking Coal

### Heating value

LHV (lower heating value)

### Total fuel MWh consumed by the organization

100473

### MWh fuel consumed for self-generation of electricity

<Not Applicable>

# MWh fuel consumed for self-generation of heat

<Not Applicable>

### MWh fuel consumed for self-generation of steam

<Not Applicable>

### MWh fuel consumed for self-generation of cooling

<Not Applicable>

# MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

### **Emission factor**

2.03227

### Unit

kg CO2e per Mg

## **Emissions factor source**

GHG protocol

# Comment

"The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity.

### Fuels (excluding feedstocks)

Kerosene

### Heating value

LHV (lower heating value)

# Total fuel MWh consumed by the organization

6927

# MWh fuel consumed for self-generation of electricity

<Not Applicable>

# MWh fuel consumed for self-generation of heat

<Not Applicable>

### MWh fuel consumed for self-generation of steam

<Not Applicable>

### MWh fuel consumed for self-generation of cooling

<Not Applicable>

# MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

**Emission factor** 

#### 2 49945

#### Unit

kg CO2e per liter

#### **Emissions factor source**

GHG Protocol: 2.49945 tCO2/liter DEFRA: 2.53279 tCO2e/l

#### Comment

"The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity. Except in the case of Amey, a company located in the United Kingdom, which will use DEFRA's conversion factors.

### Fuels (excluding feedstocks)

Propane Liquid

### Heating value

LHV (lower heating value)

### Total fuel MWh consumed by the organization

6332

### MWh fuel consumed for self-generation of electricity

<Not Applicable>

### MWh fuel consumed for self-generation of heat

<Not Applicable>

### MWh fuel consumed for self-generation of steam

<Not Applicable>

### MWh fuel consumed for self-generation of cooling

<Not Applicable>

### MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

### **Emission factor**

1.61309

### Unit

kg CO2e per liter

### **Emissions factor source**

GHG Protocol: 1.61309 kgCO2e/liter DEFRA: 1.50938 kgCO2e/liter

#### Commen

"The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity. Except in the case of Amey, a company located in the United Kingdom, which will use DEFRA's conversion factors.

### Fuels (excluding feedstocks)

Liquefied Petroleum Gas (LPG)

# Heating value

LHV (lower heating value)

### Total fuel MWh consumed by the organization

1904

### MWh fuel consumed for self-generation of electricity

<Not Applicable>

# MWh fuel consumed for self-generation of heat

<Not Applicable>

### MWh fuel consumed for self-generation of steam

<Not Applicable>

### MWh fuel consumed for self-generation of cooling

<Not Applicable>

# MWh fuel consumed for self-cogeneration or self-trigeneration

<Not Applicable>

### **Emission factor**

1.61145

### Unit

kg CO2e per liter

# Emissions factor source

GHG Protocol: 1.61145 kgCO2e/liter DEFRA: 1.51906 kgCO2e/liter

### Comment

"The Greenhouse Gas Protocol Initiative" (GHG PI) shall be used for calculation of emissions from fossil fuel consumption in stationary equipment, mobile equipment, fugitive, biomass and electricity. Except in the case of Amey, a company located in the United Kingdom, which will use DEFRA's conversion factors.

CDP

(C8.2d) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

		,	•	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	32117	32117	32117	32117
Heat	0	0	0	0
Steam	0	0	0	0
Cooling	0	0	0	0

### C8.2e

(C8.2e) Provide details on the electricity, heat, steam, and/or cooling amounts that were accounted for at a zero emission factor in the market-based Scope 2 figure reported in C6.3.

### Sourcing method

Unbundled energy attribute certificates, Guarantees of Origin

#### Low-carbon technology type

Other, please specify (Energy attribute certificates, Guarantees of origin)

### Country/region of consumption of low-carbon electricity, heat, steam or cooling

Europe

#### MWh consumed accounted for at a zero emission factor

212952

#### Comment

In 2019, 59% of the electricity purchased and consumed by Ferrovial comes from renewable sources.

### C9. Additional metrics

### C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

### Description

Waste

# Metric value

1466767

### Metric numerator

m3 of Construction demolition waste

Metric denominator (intensity metric only)

# % change from previous year

37

### Direction of change

Decreased

### Please explain

In 2019 Ferrovial implemented measures to reduce CDW achieving a reduction of 37% ( 1446767 m3 generated in 2019 divided by 2344504 in 2018)

### Description

Other, please specify (Wood)

# Metric value

31861

### Metric numerator

m3

### Metric denominator (intensity metric only)

# % change from previous year

34

### Direction of change

Decreased

# Please explain

In 2019 Ferrovial implemented measures to reduce wood consumption achieving a reduction of 34% ( 31861 m3 consume in 2019 divided by 48131 in 2018) Wood is one of the materials that Ferrovial considers relevant. This material is taken into account in the Scope 3 emissions calculation. Therefore, it carries out measures to reduce its consumption, thus implying a reduction of emissions in our value chain

### C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	Third-party verification or assurance process in place
Scope 3	Third-party verification or assurance process in place

### C10.1a

(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

Page/ section reference

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Relevant standard

ISAE 3410

Proportion of reported emissions verified (%)

100

# C10.1b

(C10.1b) Provide further details of the verification/assurance undertaken for your Scope 2 emissions and attach the relevant statements.

# Scope 2 approach

Scope 2 market-based

Verification or assurance cycle in place

Annual process

Status in the current reporting year

Complete

Type of verification or assurance

Limited assurance

Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

Page/ section reference

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Relevant standard

ISAE 3410

Proportion of reported emissions verified (%)

100

### C10.1c

(C10.1c) Provide further details of the verification/assurance undertaken for your Scope 3 emissions and attach the relevant statements.

Scope 3 category

Scope 3: Purchased goods and services

Verification or assurance cycle in place

#### Annual process

### Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/section reference

11

### Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

### Scope 3 category

Scope 3: Capital goods

### Verification or assurance cycle in place

Annual process

# Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/section reference

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# Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

# Scope 3 category

Scope 3: Fuel and energy-related activities (not included in Scopes 1 or 2)

### Verification or assurance cycle in place

Annual process

# Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

# Page/section reference

44

### Relevant standard

ISAE 3410

# Proportion of reported emissions verified (%)

100

# Scope 3 category

Scope 3: Upstream transportation and distribution

# Verification or assurance cycle in place

Annual process

# Status in the current reporting year

Complete

# Type of verification or assurance

Limited assurance

# Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/section reference

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### Relevant standard

ISAE 3410

Proportion of reported emissions verified (%)

### Scope 3 category

Scope 3: Waste generated in operations

### Verification or assurance cycle in place

Annual process

### Status in the current reporting year

Complete

#### Type of verification or assurance

Limited assurance

#### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/section reference

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### Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

#### Scope 3 category

Scope 3: Business travel

# Verification or assurance cycle in place

Annual process

# Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

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# Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

### Scope 3 category

Scope 3: Employee commuting

# Verification or assurance cycle in place

Annual process

### Status in the current reporting year

Complete

# Type of verification or assurance

Limited assurance

# Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

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### Relevant standard

ISAE 3410

# Proportion of reported emissions verified (%)

100

### Scope 3 category

Scope 3: Upstream leased assets

### Verification or assurance cycle in place

Annual process

# Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

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### Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

### Scope 3 category

Scope 3: Investments

### Verification or assurance cycle in place

Annual process

#### Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

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### Relevant standard

ISAE 3410

# Proportion of reported emissions verified (%)

100

### Scope 3 category

Scope 3: Downstream transportation and distribution

### Verification or assurance cycle in place

Annual process

### Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

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# Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

### Scope 3 category

Scope 3: Processing of sold products

# Verification or assurance cycle in place

Annual process

# Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

# Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

# Page/section reference

44

### Relevant standard

ISAE 3410

# Proportion of reported emissions verified (%)

100

# Scope 3 category

Scope 3: Use of sold products

# Verification or assurance cycle in place

Annual process

### Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/section reference

### Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

### Scope 3 category

Scope 3: End-of-life treatment of sold products

### Verification or assurance cycle in place

Annual process

### Status in the current reporting year

Complete

### Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/section reference

### Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

### Scope 3 category

Scope 3: Downstream leased assets

### Verification or assurance cycle in place

Annual process

### Status in the current reporting year Complete

### Type of verification or assurance

Limited assurance

# Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/section reference

### Relevant standard

ISAE 3410

# Proportion of reported emissions verified (%)

100

# Scope 3 category

Scope 3: Franchises

### Verification or assurance cycle in place

Annual process

# Status in the current reporting year

Complete

# Type of verification or assurance

Limited assurance

### Attach the statement

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

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# Relevant standard

ISAE 3410

### Proportion of reported emissions verified (%)

100

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

# C10.2a

(C10.2a) Which data points within your CDP disclosure have been verified, and which verification standards were used?

Disclosure module verification relates to		Verification standard	Please explain
C6. Emissions data	Year on year change in emissions (Scope 1 and 2)	ISAE 3000 By Deloitte ISAE 3410 by PwC	In 2019, Ferrovial's GHG emissions and fuels consumptions included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI. In this verification process, Deloitte checks: - Year on year change in emissions (scope 1 &2 &3) and against our basic year - Year on year figure and Emissions intensity against our target - Year on year Emissions in absolute terms and against our target - Energy consumption. In addition, a double check was made because in the verification of the Carbon Footprint by PwC all these points were checked
C6. Emissions data	Year on year change in emissions (Scope 3)	ISAE 3000 By Deloitte ISAE 3410 by PwC	In 2019, Ferrovial's GHG emissions and fuels consumptions included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI. In this verification process, Deloitte checks: - Year on year change in emissions (scope 1 &2 &3) and against our basic year - Year on year figure and Emissions intensity against our target - Year on year Emissions in absolute terms and against our target - Energy consumption. In addition, a double check was made because in the verification of the Carbon Footprint by PwC all these points were checked
C6. Emissions data	Year on year emissions intensity figure	ISAE 3000 By Deloitte ISAE 3410 by PwC	In 2019, Ferrovial's GHG emissions and fuels consumptions included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI. In this verification process, Deloitte checks: - Year on year change in emissions (scope 1 &2 &3) and against our basic year - Year on year figure and Emissions intensity against our target - Year on year Emissions in absolute terms and against our target - Energy consumption. In addition, a double check was made because in the verification of the Carbon Footprint by PwC all these points were checked
C6. Emissions data	Progress against emissions reduction target	ISAE 3000 By Deloitte ISAE 3410 by PwC	In 2019, Ferrovial's GHG emissions and fuels consumptions included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI. In this verification process, Deloitte checks: - Year on year change in emissions (scope 1 &2 &3) and against our basic year - Year on year figure and Emissions intensity against our target - Year on year Emissions in absolute terms and against our target - Energy consumption. In addition, a double check was made because in the verification of the Carbon Footprint by PwC all these points were checked
C8. Energy	Energy consumption	ISAE 3000 By Deloitte ISAE 3410 by PwC	In 2019, Ferrovial's GHG emissions and fuels consumptions included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI. In this verification process, Deloitte checks: - Year on year change in emissions (scope 1 &2 &3) and against our basic year - Year on year figure and Emissions intensity against our target - Year on year Emissions in absolute terms and against our target - Energy consumption. In addition, a double check was made because in the verification of the Carbon Footprint by PwC all these points were checked

# C11. Carbon pricing

### C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)? No, and we do not anticipate being regulated in the next three years

# C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period? Yes

# C11.2a

(C11.2a) Provide details of the project-based carbon credits originated or purchased by your organization in the reporting period.

### Credit origination or credit purchase

Credit purchase

#### Project type

Energy efficiency: own generation

#### **Project identification**

In India, energy consumption from coal represents 56% of the country's total. The project is located in the north of the country, near the Himalayas where energy dependence poses a threat to the environment and for the local population. Malana's goal is the generation of electricity through the installation a hydroelectric plant that displaces the energy generated by the thermal coal plants. The project will supply energy to areas of difficult access in the state of Himachal Pradesh reducing the vulnerability of the region due to the increase in the cost of fossil fuels. Furthermore, the project challenged to combat the phenomenon of accelerated thawing in the Himalayas, thus limiting the release of the carbon particles responsible for that thawing. This project has the following positive impacts: • Creation of an 86 MW hydroelectric plant • 275,532 teqCO2 reduced per year; • During the construction and development phase, jobs will be created work as a priority for the local population; • Future employees will also be trained so that acquire the necessary knowledge for the proper development of the draft. • This project contributes to the development of new technologies in the country by producing more efficient turbine systems and new transmission equipment to reduce energy losses; • The creation of a school is planned, a road to make the area accessible and a local medical center. Contributing to Sustainable Development Goals SDG 4: Ensure inclusive, equitable education and quality and promote opportunities lifelong learning for all.The project will finance and support the construction of schools in the area to provide educational opportunities for children the local community SDG 7: Guarantee a healthy life and promote wellness for everyone at all ages. This project will produce energy from a plant 86MW hydro plant. SDG 13: Take urgent measures to combat the climate change and its effects This project will contribute clean energy to the energy mix of the region and a reduction in emissions of 275,532 is expe

#### Verified to which standard

VCS (Verified Carbon Standard)

Number of credits (metric tonnes CO2e)

219

Number of credits (metric tonnes CO2e): Risk adjusted volume

219

Credits cancelled

Yes

Purpose, e.g. compliance

Voluntary Offsetting

### C11.3

(C11.3) Does your organization use an internal price on carbon?

Yes

# C11.3a

### (C11.3a) Provide details of how your organization uses an internal price on carbon.

### Objective for implementing an internal carbon price

Drive low-carbon investment

Identify and seize low-carbon opportunities

#### **GHG Scope**

Scope 1

Scope 2

# Scope 3 Application

Ferrovial commissioned Trucost and Climate Strategy to create a Shadow Carbon Pricing Methodology and Shadow Carbon Price Grid that can be readily applied to project evaluation in selected sectors and geographies. The Carbon Pricing Methodology follows an evidence based approach, to forecast future changes in Effective Carbon Prices. The grid will enable Ferrovial to incorporate carbon prices into project planning and business decision making, as well as supporting the communication of Ferrovial's carbon emissions mitigation efforts to external stakeholders The output of this analysis is presented in the form of a 'grid', with Shadow Carbon Prices specified for the parameters, Project type and 15 geographies where the company operates In addition, carbon prices for four time horizons were estimated (2020, 2030, 2040 and 2050), allowing Ferrovial to take into account short but also middle to long term risks.

### Actual price(s) used (Currency /metric ton)

66

#### Variance of price(s) used

The figure reported in the chart above is an average of the estimated prices from Ferrovial different project types in the 15 countries considered for 2030. We consider the 2030 horizon for being the one that best fits with our investment payback period

#### Type of internal carbon price

Shadow price

#### Impact & implication

In 2017 a tool was developed to implement a carbon price in the most relevant investments of Ferrovial in the shadow pricing modality with the aim of quantifying the associated risks and opportunities and guiding the asset portfolio to decarbonized business models. The methodology establishes the evolution of the long-term carbon price (from 2020 to 2050), in the main sectors and in the 15 most relevant geographies, making it possible to quantify the risks and opportunities of new investments. Regarding carbon pricing, this is taken into consideration as a factor to assess in due diligence processes, mainly in the processes of investment / divestment or in the development of specific business lines. Ferrovial commissioned Trucost and Climate Strategy to create a Shadow Carbon Pricing Methodology and Shadow Carbon Price Grid that can be readily applied to project evaluation in selected sectors and geographies. An initial scoping phase revealed that Ferrovial required a Shadow Carbon Price setting methodology capable of estimating the exposure of different project types in different geographies to increasing carbon prices, along with the time horizon in which increased prices are expected to materialise. The output of this analysis is presented in the form of a 'grid', with Shadow Carbon Prices specified for the parameters, Project type (5 main types: airports, highways & toll roads, Waste management facilities, Landfills or Energy assets (Natural gas) and 15 geographies where the company operates. Those geographies comprise 13 countries, one sub-national jurisdiction (California) and one region (the Middle East). California was included in aedition to the USA in recognition of the more robust climate change policies in effect in that state. The Middle East was added as a single location as Ferrovial operates in several Middle East countries (such as Saudi Arabia or Oman), and Ferrovial wanted to have a more high-level estimate applicable to all of those. In addition, carbon prices for four time horizons were est

# C12. Engagement

# C12.1

# (C12.1) Do you engage with your value chain on climate-related issues?

Yes, our customers

Yes, other partners in the value chain

### C12.1b

### (C12.1b) Give details of your climate-related engagement strategy with your customers.

# Type of engagement

Education/information sharing

# Details of engagement

Run an engagement campaign to educate customers about the climate change impacts of (using) your products, goods, and/or services

### % of customers by number

26

# % of customer - related Scope 3 emissions as reported in C6.5

30

# Portfolio coverage (total or outstanding)

<Not Applicable>

### Please explain the rationale for selecting this group of customers and scope of engagement

Ferrovial has been working for years in the search for solutions to urban congestion, offering more efficient options, favoring the mobility of users. The transformation of urban mobility opens up opportunities for Ferrovial Services to promote new business models, technologically focused and interactive with citizens, which improve the efficiency and sustainability of cities. Ferrovial Services is developing these new capabilities through practical experimental methodologies, knowledge of other Ferrovial divisions and alliances with external agents with complementary capabilities. A good example of Ferrovial Services' commitment to urban mobility is Zity, a carsharing service that operates in Madrid was chosen as the starting point of the Project because it is one of the best cities to start up a carsharing model. The agreements with the town councils facilitate the success of the project. Zity signed an Agreement with Paris to join the initiative also in the french Zity.

### Impact of engagement, including measures of success

Since 2017, Ferrovial has created a carsharing service in partnership with Renault, which is being launched in the city of Madrid with the aim of providing its customers, the users, with a low carbon option for their transport. It is a fleet of 658 electric vehicles. During 2019, more than 162,000 users will use ZIty, traveling more than 9.5 million km. thus avoiding 1.100 tCO2e0

#### Type of engagement

Collaboration & innovation

#### **Details of engagement**

Other, please specify (Facility Management : efficiency services)

#### % of customers by number

27

#### % of customer - related Scope 3 emissions as reported in C6.5

35

#### Portfolio coverage (total or outstanding)

<Not Applicable>

#### Please explain the rationale for selecting this group of customers and scope of engagement

Ferrovial Services, subsidiary of Ferrovial, as an energy services company (ESCO), works under the concession model, providing constant savings and continuous improvement of our clients' facilities ( and our value chain) throughout the term of an agreement. The energy service contracts generate an increase in efficiency and savings with respect to traditional bidding processes. All of this is thanks to innovation and investment in energy efficiency solutions, together with an incentive plan that reduces energy consumption. We manage more than 1 million illumination points, four times the amount of lighting sources than in New York City. The quality and lifespan of our energy efficiency solutions are distinctive features of the energy service projects we develop and are also critical for our clients. In order to offer customers a service that allows them to manage their energy consumption more efficiently, Ferrovial Services has created the Energy Control Center. There, more than 30 contracts are monitored in Spain, the United States and Australia of different kinds: public lighting, hospitals and senior citizen homes, schools, sports centers, offices, waste treatment plants and urban heating systems. Hefesto, It's a digital tool developed by Ferrovial Services in collaboration with the innovation team and the Digital Hub which integrates remote facility measuring systems, the storage of data collected in an internal database and energy efficiency software.

#### Impact of engagement, including measures of success

Ferrovial studies every case and adjusts the solution to each client's particular needs, always aware of the impact during its implementation. During this process, and the development of the project in stages, the Centre of Excellence for Energy and Facility Management accompanies operations and deploys a team of experts at the client's disposal An energy services company (ESCO) concession model offers considerable benefits: –Financial: reducing direct and indirect costs, investment financing, and budget stability. –Operational: transferring operational risks, value-based purchasing, and efficient management. –Environmental: reducing emissions and using renewable energy. This makes it possible to monitor consumption in real time as well as the status of building and public lighting systems. More than 4000 supply points and 2500 remote measurement devices are currently managed which enables the analysis of 316 GWh of energy amounting to an approximate cost of 25 million euros.

#### Type of engagement

Education/information sharing

### **Details of engagement**

Run an engagement campaign to educate customers about the climate change impacts of (using) your products, goods, and/or services

### % of customers by number

30

# % of customer - related Scope 3 emissions as reported in C6.5

### Portfolio coverage (total or outstanding)

<Not Applicable>

### Please explain the rationale for selecting this group of customers and scope of engagement

Ferrovial works together with some of its clients to offer energy efficiency improvements and emission reductions within its activities and its value chain. In some of its contracts in Spain, Ferrovial Services offers the possibility of calculating the carbon footprint and the water footprint of its services in order to jointly carry out these improvements. The contracts where these services are offered are those where we have a considerable margin of improvement

### Impact of engagement, including measures of success

In recent times Ferrovial has been working on some of its contracts with the client to offer the calculation of carbon footprint and water footprint, specific to its contract, in such a way that improvements in energy efficiency and value chain can be offered. The metric use for the successful of the program is the percentage of the clients we have with this service and the increase year by year (an increase of the 3% in 2019). The calculations are made with direct measurements of consumption and following the same procedure as at company-wide level. Ferrovial offers this service to both, all new clients and existing customers, with whom there is already a relationship

### C12.1d

Ferrovial is committed to transparency in the information it reports to the market by making continuous improvements to its communication channels with all stakeholders on the basis of innovative corporate information that addresses not only financial aspects but also environmental and social variables.

Ferrovial consider as "other partners in the value chain": The company stakeholders that form part of the company's value chain (governments and public authorities, universities, analysts, the business sector, labor unions, the tertiary sector and society in general)

(i) Methods company uses to engage with the value chain.

Ferrovial has strong relationship with regulatory bodies and governments by taking part in workshops, task forces and workgroups.

(ii) Strategy for prioritizing engagements and how success is measured.

Relationships with regulatory bodies and governments are key to influence on regulatory trends which are in charge of developing new legal requirements that affect to the company and third party (fuel and energy related activities, used of sold product, purchased goods and services...).

So, the Ferrovial Strategy for prioritizing engagements depends on if we can play an active role in them, the engagement can bring value to the company and provide the recognition from the industry, analysts and public bodies for good practice and the knowledge that Ferrovial has in this field

The way to Measure the Success of the engagement is mainly to analyze in how many relevant workshop Ferrovial is; how the analysts considerer this type of engagement, in how many rating of sustainability we are and the position the company reach in them; the number of requests by the government bodies, industries and universities to participate in new projects such as:

- Ferrovial has endorsed the statements of the Prince of Wales's Corporate Leaders Group on Climate Change as a part of Ferrovial lobbying on carbon prices as well as a reliable and strong carbon market at a global scale.
- We are also members of the EU Green Growth Group, organization where civil society, Academy and business world representatives give advice to the European Commission about the future of the economic and environmental agenda for the horizons 2030 and 2050.
- In 2014, Ferrovial joined the Spanish Green Growth Group that consider that a roadmap towards an economy with low emissions contains big opportunities for the Spanish economy which only will become a reality with a long term collaboration between the Government and the business network. This collaboration takes place through the adhesion to the Spanish Green Growth Group. Since 2015, Ferrovial presides Spanish Green Growth Group.
- In 2016, Ferrovial becomes a member and core-partner of Climate-KIC, the largest public-private innovation partnership focused on climate innovation to mitigate and adapt to climate change.
- In 2016, Ferrovial joined the Climate Change Cluster, which is organized by Forética. In this group, large companies work side by side to lead up the strategic positioning of climate change in the management of organizations. Their role is to discuss and exchange opinions and good practices, ensuring they form part of the global debate and are key to decisions taken in Spain at an administrative level.
- In 2016, Ferrovial became a strategic partner of the #PorElClima community, organized by ECODES with the aim of developing communicative actions to raise awareness and embed a range of good practices throughout society as whole.
- In line with its open innovation strategy, Ferrovial continues its commitment to the Massachusetts Institute of Technology (MIT) in order to assist in research projects aimed at transforming the cities and developing the infrastructures of the future and get a reduction of consumption and emissions
- Since 2014, Ferrovial has been working with the Spanish Office for Climate Change to communicate and record its consumption and emissions to promote monitoring of the country's reduction objective. Working together to provide mitigation solutions to climate change.

# C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

Direct engagement with policy makers

Trade associations

Other

# C12.3a

Focus of legislation		Details of engagement	Proposed legislative solution
Other, please specify (Climate Change Legislation)	Neutral	In Spain, Ferrovial chairs the Spanish Green Growth Group, which promotes public-private partnerships to make further progress in mitigating and adapting to climate change, decarbonizing the economy and championing the circular economy. A manifesto was signed in 2018, together with 35 other Spanish companies, to activate the energy transition and a conference titled "Opportunities of the energy transition for the Spanish and European economy" was organized in collaboration with the European Alliance to Save Energy.	With a focus on the 2050 horizon, the group requests clear and stable policies enabling companies to change their strategies and policies to align them with the fight against climate change. The group is also asking for a communications and awareness-raising policy for society at large on climate change.
Mandatory carbon reporting	Neutral	The company through its airport division – HAH (Heathrow Airport Holdings), where Ferrovial owns a 25.00% of share, supports the Government expectations on "Impact on air traffic limits" although we do not have control over emissions from aircraft we use our influence to encourage the airline industry and policy makers to tackle climate change.	With the idea of to reduce the "Impact on air traffic limits", HAH: a) Trends within aviation sector are aimed at making aircrafts more efficient and fuels less polluting (Singapore Airlines, Airbus, NATs). According to that, HAH is leading the "Green Aviation" initiative. b) HAH has been working with airlines to publish the road carbon footprint roadmap for sustainable aviation.
Mandatory carbon reporting	Support	The company through its airport division – HAH (Heathrow Airport Holdings), where Ferrovial owns a 25.00% of share, participate in UK Government's emissions trading scheme called CRC (Carbon Reduction Commitment).	HAH is ready to leader this trading scheme, and has been supporting the Government on such matter. We expect to simplify the trading scheme and to facilitate the implementation. We support the UK legislation on mandatory carbon scheme with no exception.
Climate finance	Support	Ferrovial is currently providing solutions to the Spanish Government in order to spread urban renovation and refitting as a way to drive the Spanish construction sector toward a sustainable business. This product is named "Green refitting" and offers building refurbishment solutions to householders with the aim of improving the energy efficiency and cutting GHG emissions in premises. Ferrovial's proposal is mainly based on a) a relevant change in the current legal framework regulating building refurbishment, and b) a public-private partnership with private equity to invest in buildings, with the aim of reducing energy consumption significantly. According to our proposal, big-scale urban renovation and building refitting would result in savings by more than 13 million CO2 tones.	Ferrovial has extensive experience in construction and technical solutions implemented in the houses that enable make them more efficient by demanding less power and energy consumption in the user phase. Ferrovial has quantified what investment should be made to apply these technical solutions in order to improve energy efficiency of existing houses and obtain energy savings. We have also advised in various public-private projects so these can be carried out and offered solutions on what changes have to be made to guarantee restoration projects in neighbourhoods. Thanks to that advice, in 2014 the Spanish Government approved "Energy Saving and Emission Reduction Plan in Buildings for energy rehabilitation of buildings in the residential and tertiary sector". So, there will be a co-finance energy efficiency investments in buildings

### C12.3b

(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership?

Yes

#### C12.3c

(C12.3c) Enter the details of those trade associations that are likely to take a position on climate change legislation.

### Trade association

Corporate Leaders Group

Is your position on climate change consistent with theirs?

Consistent

### Please explain the trade association's position

The EU Corporate Leaders Group (EU CLG) was set up in 2007 and brings together business leaders from a cross-section of EU and international businesses who believe there is an urgent need to develop new and longer-term policies for tackling climate change. The mission of the EU Corporate Leaders Group is: "To communicate the support of business for the European Union to move to a low carbon society and low climate risk economy and to work in partnership with the institutions of the EU to secure the policy interventions that are needed to make this a practical reality" The vision of the EU Corporate Leaders Group is that, by 2020, the European Union will have: - Demonstrated that tackling climate change is the pro-growth option; - Fully met the targets committed to at the 2007 Spring Council Summit. Adopted and implemented a package of policies to accelerate investment in the development, demonstration and deployment of low carbon and energy efficient technologies and practices; - Adopted and will be implementing policies to address and adapt to the impacts of climate change; - Played a leadership role in securing and implementing a sufficiently ambitious and comprehensive international agreement to avoid dangerous climate change and deploy international adaptation strategies; - Adopted the necessary targets for emission reductions beyond 2020 to ensure Europe becomes a low carbon economy within the timescale that science suggests is necessary to avoid dangerous climate change; - Developed a comprehensive climate and energy strategy for delivering the post-2020 emission reduction targets; - Developed the EU policy beyond 2020 to give the right long term signals for investments in low carbon and energy efficient technologies and more innovative competitive industrial development; - Adopted a clear and robust 2030 Climate and Energy Framework. Key EU activities in 2013: - IPCC Science & Business Roundtable - Launch of The Polish Business & Science Climate Coalition - European Green Growth Summit in Brussels - EU C

# How have you influenced, or are you attempting to influence their position?

Ferrovial's role is focused on providing know-how and expertise on energy efficiency, particularly on transport infrastructures, cities and energy efficiency in buildings. The main goal is to support the strategy of the CLG about influencing the Climate Package and the 2030 European Agenda, introducing energy efficiency as a major topic in the EU long term strategy for reducing emissions and energy dependence. Just to give an example about the importance of this topic, the potential of energy efficiency in buildings at the European level could reduce the energy demand around the total amount of gas currently imported from Russia.

### Trade association

UE Green Growth Group

Is your position on climate change consistent with theirs?

Consistent

# Please explain the trade association's position

The European Green Growth Group is a platform for dialogue between the different stakeholders and policy actors at the European level which intends to improve the design of EU policies on climate change and transition to a low carbon economy with the cooperation of the business community. The Green Growth Group has three subgroups: one at Ministerial level, another at EU Parliamentary level and a last one made up of European companies (Ferrovial is integrated in it).

### How have you influenced, or are you attempting to influence their position?

Ferrovial's role is focused on advising to the European Unión in relation to the Climate Change roadmap by 2030

#### Trade association

Spanish Green Growth Group

Is your position on climate change consistent with theirs?

Consistent

#### Please explain the trade association's position

Taking as a precedent the European Green Growth group the Spanish Minister of Agriculture, Food and Environment forms the Spanish Green Growth with a group of Spanish companies, representing a wide range of sectors of the Spanish economy, in order to gather their input and perspectives (Ferrovial is integrated in it). One of the outcomes of this group was the initiative to set up a permanent forum between the Administration and the private sector with the aim to collect the input and advice of the private sector on how to proceed to transform the current economy into a low-carbon economy that contributes to the fight against climate change while, at the same time, guarantees a sustainable job-creating economic growth. The initiative took shape as a Declaration, signed by 34 companies, in which these companies undertook to take the necessary steps to support EU decarbonisation policies and recognized the importance of a permanent dialogue between the Administration and the business community in order to achieve this goal. This Declaration represented the founding document of the Spanish Green Growth Group whose main objectives are the following:

- Reinforcing involvement of the private sector in the fight against climate change and the achievement of a low carbon economy. - Exchanging and sharing information related to climate change and low carbon economy with a view to contribute to improve the design of the public policies in order for them to be more efficient and realistic. - Contributing to the adaptation of business plans to climate change. - Exploring business opportunities for Spanish companies that may arise as a result of climate change and energy transition bill, currently being drafted since Marrakesh COP.

#### How have you influenced, or are you attempting to influence their position?

Ferrovial's role is focused on: - Advising on how to proceed to transform the current economy into a low-carbon economy that contributes to the fight against climate change while, at the same time, guarantees a sustainable job-creating economic growth. - Exchanging and sharing information related to climate change and low carbon economy with a view to contribute to improve the design of the public policies in order for them to be more efficient and realistic. - Contributing to the adaptation of business plans to climate change. - Exploring business opportunities for companies that may arise as a result of climate change. - Support the Spanish participation in international fora. - Participate in working groups with the Ministry of Agriculture (Spain) to provide advice on the new climate change and energy transition bill, currently being drafted in the wake of the Marrakesh COP. Ferrovial has chaired the Spanish Green Growth Group since 2015.

#### Trade association

Foretica's Cluster of Climate Change

Is your position on climate change consistent with theirs?

Consistent

### Please explain the trade association's position

As a member of Forética, Ferrovial participates in the Climate Change Cluster. Forética, Spain's sole representative on the World Business Council for Sustainable Development (WBCSD), and therefore, the Spanish Sustainable Development Council (CEEDS), has launched in Spain projects and initiatives that the WBCSD carried out on a global scale. One of the main issues it is working on in relation to climate change is the upcoming Spanish Climate Change and Energy Transition Act.

### How have you influenced, or are you attempting to influence their position?

Ferrovial will attend meetings of the Climate Change Cluster in order to advise the government on climate change issues.

C12.3e

(C12.3e) Provide details of the other engagement activities that you undertake.

In the field of climate innovation, since 2017 Ferrovial is a co-partner of Climate-KIC, the largest European initiative focused on mitigation and adaptation to climate change. Furthermore, Ferrovial chairs in Spain the Spanish Group of Green Growth, which encourages public-private collaboration to advance mitigation and adaptation to climate change, the decarbonisation of the economy and the promotion of the circular economy. In 2018 was signed, together to 35 other Spanish companies, manifesto to activate the energy transition and the conference "Opportunities for the energy transition for the Spanish and European economy" in collaboration with the European Alliance to Save Energy. In 2019 launches a Manifesto to promote the Sustainable Development Goals (SDGs) of the 2030 Agenda. In 2019 also the SGGG together with the Madrid city government, it signs an agreement to promote the green economy in the region

Ferrovial is also a member of the Fundación Empresa y Clima, strategic ally in the Community #PorElClima, promoter of the Spanish Platform for Collaborative Climate
Action public-private, and observer member of the Framework Convention United Nations Conference on Climate Change (UNFCCC), and participant of the Climate Change
Cluster promoted by Forética. Regarding the value chain, the company maintains a relationship fluid with the Business and Climate Foundation with the aim of raising
awareness in the environmental aspects and in this way act as a lever of change towards a low emission economy. In this regard, energy suppliers and agreements in the
purchase of renewable electricity problems a major repercussion both in the company's roadmap globally. Also, They are considered as strategic partners in certain initiatives

C12.3f

(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

Ferrovial's climate strategy forms part of the company's wider business strategy. Since 2008 Ferrovial has Quality & Environment Steering Committee, who is formed by Sustainability director and Q&E business directors units whose responsibilities are to discuss, make decisions, establish requirements and review results on behalf of the Group. Through the president of the Steering committee, the CEO is informed and takes decisions on everything related to climate change as the maximum responsible for these issues at Ferrovial. The Steering Committee have the purpose of articulate climate strategy across all the company. The decisions and actions of the Steering Committee are derived from the application of the influence of Corporate Responsibility policy that is determined by the Board of Directors. Therefore, the issues related to climate change strategy are discussed in company's committee. Any direct and indirect activities, including those to influence policy, are carried out pass through Ferrovial's Quality & Environment Steering Committee to ensure that is consistent with overall climate change strategy

(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

#### Publication

In mainstream reports, in line with the CDSB framework (as amended to incorporate the TCFD recommendations)

#### Status

Complete

### Attach the document

IAI\_2019\_EN.pdf

### Page/Section reference

10,15,72-73,114-124, 126-127

### **Content elements**

Governance

Strategy

Risks & opportunities

Emissions figures

Emission targets

Other metrics

### Comment

### Publication

In mainstream reports, in line with the CDSB framework (as amended to incorporate the TCFD recommendations)

#### Status

Complete

### Attach the document

Ferrovial\_Estrategia climatica\_2019\_EN.pdf

### Page/Section reference

44

### **Content elements**

Governance

Strategy

Risks & opportunities

Emissions figures

Emission targets Other metrics

# Comment

### Publication

In voluntary communications

### Status

Complete

### Attach the document

Amey logra reducir la huella de carbono a través de una app.pdf

Sostenibilidad. Una apuesta emergente en las empresas de nueva creacion.pdf

CDP\_Ferrovial.pdf

Zero Cabin Waste.docx

Actuacion climatica IBEX 35.pdf

Ferrovial, la empresa más sostenible del mundo en su sector según Dow Jones Sustainaibility Index Sala de prensa.pdf

Ferrovial Agroman construye el hospital más sostenible de Europa con certificación LEED PLATINO.pdf

Ferrovial obtiene la distinción Gold del Sustainability Yearbook 2020.pdf

Heathrow ya es carbono neutral y se compromete a reducir por completo sus emisiones antes de mediados de 2030 Sala de prensa.pdf

Ficha Iluminación LED Pista Barajas.ppt

Soluciones energéticas para reducir el cambio climático.pdf

# Page/Section reference

All pages

# **Content elements**

Governance

Strategy

Risks & opportunities

Emissions figures

Emission targets

Other metrics

### Comment

### C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

### C15.1

(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	CEO of Ferrovial and member of the Board of Ferrovial	Chief Executive Officer (CEO)

### SC. Supply chain module

### SC0.0

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

In construction area, Ferrovial Agromán is the flagship company of the construction division operative in all areas of civil works and building, both in Spain and abroad.

Ferrovial Agroman is a Ferrovial subsidiary engaged in the construction of civil works, building and industrial works. It is a reference internationally for its technical capacity in the execution of large transport infrastructures. Its international position continues to improve, and it is noteworthy that the international portfolio outweighs domestic work in the main operational aggregates.

In the field of civil works, it designs and builds all types of infrastructures: roads, railways, hydraulic works, maritime works, hydro-electric works and industrial and works. The division also has a significant experience in home building and in non-residential building.

In Spain, Ferrovial Agromán also has the support of its auxiliary companies in executing part of its business:

- The structure pre-tensing business is operated via the company Tecpresa.
- Ditecpesa: is a company specializing in development, manufacture and sale of asphalt products.
- Edytesa: specializing in sliding formwork technology and lifting, movement and placement of large loads (heavy lifting).

Beyond Spain, business is carried out by subsidiaries like Budimex in Poland or Webber in the United States, and by stable delegations in countries deemed to be of strategic interest, such as the United Kingdom, Ireland, Italy, Portugal, Chile, Puerto Rico, Australia and the United States.

The base year for the calculation and reporting of Ferrovial-Agroman emissions is 2009.

In services area, Amey in the UK and Ferrovial Services Portugal are one of the largest and most diverse companies working for the public and regulated sectors, with the ultimate aim of creating better places for people to live, work and travel. they offer a wide-ranging catalogue of innovative solutions complying with the most demanding quality and commitment standards for all types of public and private customers. They work to improve infrastructures and cities, optimizing their efficiency, functionality, sustainability and contribution to society. The division executes its business via an integrated offering of value-added services:

- Maintenance of transport infrastructures, ensuring the most demanding quality and safety levels. The whole of the process is covered end-to-end, from needs-planning for vehicles and persons right up to the solution of all incidents.
- -Environmental services to convert cities into sustainable environments: collection, recycling, treatment and transformation of waste into energy and new materials, management of green zones, street cleaning and conservation.
- -Management of services and energy efficiency for buildings and facilities, optimizing costs and investments via the execution of bespoke, holistic solutions, from diagnostics to energy management itself.

During 2019, Vodafone group, National Grid and Naturgy have requested the completion of this module, but we dont have any contract with Natural GRID during 2019 so we can't report data from our carbon footprint

# SC0.1

(SC0.1) What is your company's annual revenue for the stated reporting period?

	Annual Revenue
Row 1	13015

(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP?

Yes

#### SC0.2a

(SC0.2a) Please use the table below to share your ISIN.

	ISIN country code (2 letters)	ISIN numeric identifier and single check digit (10 numbers overall)
Row 1	ES	0118900010

### SC1.1

(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

#### Requesting member

Vodafone Group

#### Scope of emissions

Scope 1

### Allocation level

Business unit (subsidiary company)

#### Allocation level detail

Ferrovial Services Portugal

#### Emissions in metric tonnes of CO2e

24.17

### Uncertainty (±%)

5

### Major sources of emissions

Scope 1: 24.17 Fuel combustion in vehicles owned or controlled by the company

### Verified

Yes

# Allocation method

Allocation based on the energy content of products purchased

# Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Main Sources: Fuel combustion in stationary equipment (boilers, furnaces, turbines...) to produce electricity, heat or steam. Fuel combustion in vehicles owned or controlled by the company. Assumptions: Regarding the calculation tools used, GHG described that in the case of "GHG Emissions from transport or mobile sources" is based on the assumption that carbon burned as fuels is emitted mostly as carbon dioxide (CO2). This emission factor is developed based on the fuel's heat content, the fraction of carbon in the fuel that is oxidized (generally approximately 99% but assumed to be 100% in this tool), except USA and UK. However in the case of "GHG emissions from Stationary combustion" calculates CO2, N2O and CH4 as well

### Requesting member

Vodafone Group

# Scope of emissions

Scope 2

### Allocation level

Business unit (subsidiary company)

### Allocation level detail

Ferrovial Services Portugal

# Emissions in metric tonnes of CO2e

1.38

# Uncertainty (±%)

5

### Major sources of emissions

Scope 2: 1.38 tCO2e Main sources: electricity purchased

### Verified

Yes

### Allocation method

Allocation based on the energy content of products purchased

### Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Indirect GHG emissions are emissions resulting from the consumption of electricity bought from other companies which produce or control it

#### Requesting member

Naturgy Energy Group SA

### Scope of emissions

Scope 1

#### Allocation level

Business unit (subsidiary company)

#### Allocation level detail

Ferrovial Agroman Spain

#### Emissions in metric tonnes of CO2e

*1*17 16

### Uncertainty (±%)

5

#### Major sources of emissions

Scope 1: Fuel combustion in vehicles owned or controlled by the company, Fuel combustion in stationary equipment

#### Verified

Yes

#### Allocation method

Allocation based on the energy content of products purchased

#### Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Main Sources: Fuel combustion in stationary equipment (boilers, furnaces, turbines...) to produce electricity, heat or steam. Fuel combustion in vehicles owned or controlled by the company. Assumptions: Regarding the calculation tools used, GHG described that in the case of "GHG Emissions from transport or mobile sources" is based on the assumption that carbon burned as fuels is emitted mostly as carbon dioxide (CO2). This emission factor is developed based on the fuel's heat content, the fraction of carbon in the fuel that is oxidized (generally approximately 99% but assumed to be 100% in this tool), except USA and UK. However in the case of "GHG emissions from Stationary combustion" calculates CO2, N2O and CH4 as well

#### Requesting member

Naturgy Energy Group SA

### Scope of emissions

Scope 2

#### Allocation level

Business unit (subsidiary company)

#### Allocation level detail

Ferrovial Agroman Spain

### Emissions in metric tonnes of CO2e

104.29

### Uncertainty (±%)

5

### Major sources of emissions

Scope 2: 104.29 tCO2e Main sources: electricity purchased

### Verified

Yes

### Allocation method

Allocation based on the energy content of products purchased

# Please explain how you have identified the GHG source, including major limitations to this process and assumptions made

Indirect GHG emissions are emissions resulting from the consumption of electricity bought from other companies which produce or control it

### SC1.2

# (SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).

Alignment with the recommendations of the TCFD (Task Force on Climate-related Financial Disclosures) and CDSB (Climate Disclosure Standard Board)

Ferrovial reports in all it's mainstreams report includes information on the governance, strategy, risk managementand opportunities, objectives, metrics and development relating to climate change following the recommendationsof the Task Force on Climate-related Financial Disclosures(TCFD) and Climate Disclosure Standards Board (CDSB).

The greenhouse gas (GHG) emissions given in these reports have been verified under limited assurance by PwC, in accordance with ISAE standard 3410, Assurance Engagements on Greenhouse Gas Statements. This review also verified that the internal "Calculation and Reporting of the Carbon Footprint" procedure, approved by Ferrovial management, has been prepared in accordance with the international standard ISO 14064-1.

Ferrovial also publish during the year in voluntary reports, information about reductions, emissions, or any climate change data.

# SC1.3

#### (SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Allocation	Please explain what would help you overcome these challenges
challenges	
Other,	Since 2009, Ferrovial have measured 100% of greenhouse gas emissions from our activities around the world in order to reduce our carbon footprint. Global targets in the plan Horizon 2030 have been
please	verified by the Science Based Target, aligned with the scenarios in the 2nd. Among the objectives lies our commitment to achieve a 32% reduction of scopes 1 and 2 by 2030. Using 2009 as the year
specify (IT	of reference, this is equivalent to reducing emissions by 42.9% for every million euros of turnover. Likewise, we are committed to reducing emissions from scope 3 by 20% until 2030, using 2012 as a
sistems)	year of reference. Ferrovial works directly with some of its suppliers to reduce the emissions associated with its supply chain. One of the challenges is to identify different customer contracts and
	invoices assigned to each resource Ferrovial works to carry out continuous improvement of its information systems. In the construction area, developed and operating a works management tool in
	which detailed information on each supplier can be accessed. The applications allows to enter fuel costs, the quantities consumed for mobile and fixed equipment and cost or energy consumption.
	This will reduce the uncertainty in the estimation of data. Then financial audit is conducted so the reliability of the data is high On the Services area, Amey and Ferrovial Services doesn't have an
	specific IT applications. We worked with SAP so is quite easy identify and work with suppliers. Working with supply is beneficial to both parties.

#### SC1.4

(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Yes

### SC1.4a

(SC1.4a) Describe how you plan to develop your capabilities.

Since 2009, Ferrovial have measured 100% of greenhouse gas emissions from our activities around the world in order to reduce our carbon footprint.

Global targets in the plan Horizon 2030 have been verified by the Science Based Target, aligned with the scenarios in the 2nd. Among the objectives lies our commitment to achieve a 32% reduction of scopes 1 and 2 by 2030. Using 2009 as the year of reference, this is equivalent to reducing emissions by 42.9% for every million euros of turnover. Likewise, we are committed to reducing emissions from scope 3 by 20% until 2030, using 2012 as a year of reference. Ferrovial works directly with some of its suppliers to reduce the emissions associated with its supply chain. One of the challenges is to identify different customer contracts and invoices assigned to each resource

In order to improve data quality, Ferrovial annually conducts audits where expenditure / consumption per contract / work that are used to obtain carbon footprint are revised with the idea of reducing uncertainty. The verification is carried out by an external company.

In recent times Ferrovial has been working on some of its contracts with the client to offer the calculation of carbon footprint and water footprint, specific to its contract, in such a way that improvements in energy efficiency and value chain can be offered.

### SC2.1

(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.

### Requesting member

Naturgy Energy Group SA

# Group type of project

Other, please specify (Energy efficiency)

### Type of project

Other, please specify (Actions to reduce customers operational emissions ( Customer Scope 1&2))

### **Emissions targeted**

Actions to reduce customers' operational emissions (customer scope 1 & 2)

# Estimated timeframe for carbon reductions to be realized

1-3 years

### Estimated lifetime CO2e savings

400

### Estimated payback

1-3 years

### **Details of proposal**

To carry out our emissions reductions measures, during the design phase of the project can be carried out improvements for energy efficiency in buildings. Ferrovial has extensive experience in this field, we can talk about savings up to 20% in energy consumption. Incorporation of energy buildings measures in the buildings of the corporate headquarters. As an example of these actions, Ferrovial's head office building in Principe de Vergara has been renovated with the inclusion of energy efficiency and lighting measures resulting in a 55% saving in electricity consumption compared with 2008. During 2019 Ferrovial headquarters have begun to renew, adding to this building new energy efficiency and lighting measures

### Requesting member

Vodafone Group

### Group type of project

Other, please specify (Sustainability Mobility Plan)

# Type of project

Other, please specify (Mobility plan)

#### **Emissions targeted**

Actions that would reduce our own operational emissions (our scope 1 & 2)

### Estimated timeframe for carbon reductions to be realized

0-1 yea

#### Estimated lifetime CO2e savings

5498

#### Estimated payback

1-3 years

#### **Details of proposal**

Ferrovial's commitment is to lessen the environmental impact of its activities, by maintaining a preventive focus which benefits the environment and reduces the company's global carbon footprint. As a potential supplier of low-emission infrastructures and services, Ferrovial's proposals would have no credibility if they failed to include ambitious commitments to reduce its own carbon footprint. This aim covers 100% of activities, companies and subsidiaries on a global scale. To achieve this commitment, Ferrovial has developed and implemented emission-reducing actions, both specific to each business area and of a general nature: Incorporation of energy efficiency criteria in procurement and sub-contracting of services, electricity procurement from certified renewable sources, use of alternative fuels and increased use of alternative vehicles. Ferrovial initiated its Sustainable Mobility Strategy for employees in 2008 and it has been steadily extended to the main corporate offices. It is a groundbreaking experience in the business world. These plans have also included actions to improve vehicle fleets and training programmes, and specific training to promote efficient driving. In 2019 5498 tCO2eq was avoided to the atmosphere in relation with the use of vehicules with alternative fuels. Development of technology and processes geared towards optimizing the avoidance of emissions. Inclusion of energy efficiency measures in buildings used as corporate headquarters

#### Requesting member

Naturgy Energy Group SA

#### Group type of project

Change to supplier operations

#### Type of project

Implementation of energy reduction projects

#### **Emissions targeted**

Actions that would reduce both our own and our customers' emissions

#### Estimated timeframe for carbon reductions to be realized

0-1 yea

### Estimated lifetime CO2e savings

8844

#### Estimated payback

0-1 year

### Details of proposal

Ferrovial calculated the total figure for emissions in line with the guidelines included in the Corporate Value Chain (Scope 3) Accounting and Reporting Standard published by the Greenhouse Gas Protocol Initiative, the WRI and the WBCSD. In parallel, a specific reporting and calculation methodology scope 3 emissions was developed and included in a technical instruction. Ferrovial Agromán has worked on reducing Scope 3 emissions by focusing on work site, Ferrovial-Agromán has measures to reduce the emissions such as: - fleet intensity indicators for Spain. The company calculates the consumption of diesel in fleet vehicles (litres / number of vehicles). In 2019 Ferrovial Agroman avoided 8844 tCO2e, due to the measures implemented such as: efficient driving, proper maintenance of the fleet and including performance criteria in buying and leasing new vehicles. - intensity indicators in order to measure machinery performance. The company calculates the theoretical average fleet emissions per kilometre (gr. CO2 / km).

### SC2.2

(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives?

### SC3.1

### (SC3.1) Do you want to enroll in the 2020-2021 CDP Action Exchange initiative?

No

### SC3.2

### (SC3.2) Is your company a participating supplier in CDP's 2019-2020 Action Exchange initiative?

No

### SC4.1

# (SC4.1) Are you providing product level data for your organization's goods or services?

Yes, I will provide data

(SC4.1a) Give the overall percentage of total emissions, for all Scopes, that are covered by these products.

100

### SC4.2a

(SC4.2a) Complete the following table for the goods/services for which you want to provide data.

#### Name of good/ service

Civil Works and Building Construction

### Description of good/ service

Building construction is the process of preparing for and forming buildings and building systems. Construction starts with planning, design, and financing and continues until the structure is ready for occupancy. Ferrovial Agroman performs the following activities: The design and construction of the types of works of: earthworks and perforating; bridges, viaducts and large structures; buildings; railways; hydraulic works; maritime works; roads and runways; crude and gaseous transporting works; electrical installations; mechanical installations; special construction work, The conservation and maintenance or roads, runways, motorways, highways, carriageways and railways.

#### Type of product

Final

#### SKU (Stock Keeping Unit)

Turnover (million €)

#### Total emissions in kg CO2e per unit

25628

#### ±% change from previous figure supplied

0

### Date of previous figure supplied

December 31 2019

### Explanation of change

### Methods used to estimate lifecycle emissions

GHG Protocol Product Accounting & Reporting Standard

### SC4.2b

(SC4.2b) Complete the following table with data for lifecycle stages of your goods and/or services.

# Name of good/ service

Fuel and Energy consumption that are necessary to carry out the contracts.

### Please select the scope

Scope 1 & 2

### Please select the lifecycle stage

Energy/Fuel

# Emissions at the lifecycle stage in kg CO2e per unit

15147

### Is this stage under your ownership or control?

Yes

### Type of data used

Primary

# Data quality

The calculation methodology is based on the Greenhouse Gas (GHG) Protocol (WRI & WBCSD) as the most internationally accepted, maintaining compliance with the ISO14064-1.The data are reported annually by businesses for compiling the Annual Report and are audited and verified by Deloitte. Furthermore, data, methodology and emissions of this section have been verified by. Therefore the quality of data and emissions reported is high

# If you are verifying/assuring this product emission data, please tell us how

In 2019, the 100 percent of Ferrovial 's GHG (Scope 1&2&3) have been verified under limited assurance by PwC, according to ISAE 3410. The document attached includes inventory of emissions and verification letter. In addition, other specific verifications have been made. So, in 2019 the 100 % of Ferrovial's GHG emissions (Scope 1&2%3&Biogenic CO2) included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI.

### Name of good/ service

Purchased goods and services. This category includes all upstream (i.e., cradle-to-gate) emissions from the production of products purchased by the reporting year. Ferrovial considered the most relevant materials from the environment and total purchases side (Timber, paper, steal, asphalt, concrete and water) that are used in products that we supply. Enablon is the platform used to gather the data required to obtain the quantity of materials purchased and to write Integrated Annual Report

### Please select the scope

Scope 3

### Please select the lifecycle stage

Cradle to grave

Emissions at the lifecycle stage in kg CO2e per unit

47480

Is this stage under your ownership or control?

No

#### Type of data used

Primary

#### Data quality

The data quality is high because the methodology and calculation were verified by PwC and Deloitte. Enablon is the platform used to gather the data required to obtain the quantity of materials purchased and to write the Integrated Annual Report. To calculate emissions, we use 2015 DEFRA Conversion Factors: Annex 14 "Indirect emissions resulting from Material Consumption and Waste Disposal" for materials and waste and Annex 9 "Bioenergy & Water Conversion Factor Tables" for water. These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. We considered quantity of the most relevant materials from the environment and total purchases. These data are reported annually by businesses for compiling the Integrated Annual Report and are audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" PwC. Therefore the quality of data and emissions reported is high. We get the total number of life cycle Tneq CO2 for all materials (extraction, primary processing, manufacturing and transportation. It excludes the use phase). These emission factors include the transportation part that are included in section "Upstream transportations and distribution" are subtracted from the obtained in that section
"Upstream transportations and distribution" are subtracted from the obtained in that section

#### If you are verifying/assuring this product emission data, please tell us how

In 2019, the 100 percent of Ferrovial 's GHG (Scope 1&2&3) have been verified under limited assurance by PwC, according to ISAE 3410. The document attached includes inventory of emissions and verification letter. In addition, other specific verifications have been made. So, in 2019 the 100 % of Ferrovial's GHG emissions (Scope 1&2%3&Biogenic CO2) included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI.

#### Name of good/ service

Upstream transportation and distribution This category includes emissions from transportation and distribution of products purchased in the reporting year. This included third-party transportation and distribution services purchased. Ferrovial considered the most relevant materials from the environment and total purchases side. These materials were used in products that we supply. These materials were: Timber, paper, steal, asphalt, water and concrete.

### Please select the scope

Scope 3

#### Please select the lifecycle stage

Transportation

### Emissions at the lifecycle stage in kg CO2e per unit

41904

### Is this stage under your ownership or control?

No

# Type of data used

Primary

### Data quality

The data quality is high because the methodology and calculation were verified by PwC and Deloitte. This category includes emissions from transportation and distribution of products purchased in the reporting year. This included third-party transportation and distribution services purchased. Ferrovial-Agromán considered the most relevant materials from the environment and total purchases side. These materials were used in products that we supply. These materials were: Timber, paper, steal, asphalt, water and concrete. The Enablon application is the source we used to obtain the quantity of materials purchased. To know the origin of the materials purchased we have used sectorial reports. To calculated emissions, we have used "GHG emissions from transport or mobile sources" of "The Greenhouse Gas Protocol Initiative

### If you are verifying/assuring this product emission data, please tell us how

In 2019, the 100 percent of Ferrovial 's GHG (Scope 1&2&3) have been verified under limited assurance by PwC, according to ISAE 3410. The document attached includes inventory of emissions and verification letter. In addition, other specific verifications have been made. So, in 2019 the 100 % of Ferrovial's GHG emissions (Scope 1&2%3&Biogenic CO2) included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI.

### Name of good/ service

Business travel This category includes emissions from the transportation of employees for business related activities in vehicles owned or operated. In this category, Ferrovial emissions from business travel arised from air travel, rail travel, taxi travel and automotive travel. We had distance travelled by air, rail and automotive and expense of taxi travel

### Please select the scope

Scope 3

# Please select the lifecycle stage

Transportation

### Emissions at the lifecycle stage in kg CO2e per unit

1521.8

### Is this stage under your ownership or control?

No

# Type of data used

Primary

### Data quality

The data quality is high because the metholodogy and calculation were verified by PwC and Deloitte. To calculated Ferrovial emissions, we have used "GHG emissions from transport or mobile sources" of "The Greenhouse Gas Protocol Initiative" These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category we considered data provided by the travel agency through which Ferrovial purchases train and plane tickets; data provided by our accounting department on taxi expenditure and data supplied by the business on the use of vehicles. Data, methodology and emissions of this section had been audited and verified in accordance with ISAE 3000 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" issued by the International Auditing and Assurance Standards Board (IAASB) of the International Federation of Accountants (IFAC)" by PwC. Therefore the quality of data and emissions reported is high. (iii) To calculate the emissions in this section we used

the following calculation tool: "GHG emissions from transport or mobile sources" provided by "The Greenhouse Gas Protocol Initiative". The information required were: - The type of transport used by passenger Assumptions: We consider that business travel are made in diesel driven cars and train trips are made in conventional train not a high speed.

#### If you are verifying/assuring this product emission data, please tell us how

In 2019, the 100 percent of Ferrovial 's GHG (Scope 1&2&3) have been verified under limited assurance by PwC, according to ISAE 3410. The document attached includes inventory of emissions and verification letter. In addition, other specific verifications have been made. So, in 2019 the 100 % of Ferrovial's GHG emissions (Scope 1&2%3&Biogenic CO2) included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI.

#### Name of good/ service

Employee commuting This category includes emissions from the employee's commuting from their homes to work places.

#### Please select the scope

Scope 3

### Please select the lifecycle stage

Other, please specify (employee commuting)

### Emissions at the lifecycle stage in kg CO2e per unit

529.73

### Is this stage under your ownership or control?

Nο

### Type of data used

Primary

#### Data quality

The data quality is high because the metholodogy and calculation were verified by PwC and Deloitte. In 2016, Ferrovial carried out a mobility survey to the group's employees, which has been the source to know the mode of transport and distance traveled from home to work place. Other source used is the number of people working in offices. This data is provided by the human resources department. To calculate emissions, we used the calculation tool "GHG emissions from transport or mobile sources emitted" provided by "The Greenhouse Gas Protocol Initiative" (GHG PI). These emission factors used were in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. (ii) In this category, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" issued by the International Auditing and Assurance Standards Board (IAASB) of the International Federation of Accountants (IFAC)" by PwC. Therefore the quality of data and emissions reported is high. (iii) To calculate the emissions in this section we used the following calculation tool: "GHG emissions from transport or mobile sources" provided by "The Greenhouse Gas Protocol Initiative". The information required are: - Number of employee - Distance from home to work - Type of transport: car, motorbike, subway, bus and train. Assumptions: Ferrovial within this section calculates the emissions of employees from construction, services, infrastructures and Ferrovial group that work at offices. As we do not know the type of motorbike and train used we have chosen in column "vehicle type": "Control unknown for motorbike" and "Average Light rail and Train" for train.

### If you are verifying/assuring this product emission data, please tell us how

In 2019, the 100 percent of Ferrovial 's GHG (Scope 1&2&3) have been verified under limited assurance by PwC, according to ISAE 3410. The document attached includes inventory of emissions and verification letter. In addition, other specific verifications have been made. So, in 2019 the 100 % of Ferrovial's GHG emissions (Scope 1&2%3&Biogenic CO2) included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI.

### Name of good/ service

End of life treatment of sold products This category includes emissions from the waste disposal and treatment of products sold in the reporting year at the end of their life. Regarding products sold, those are infrastructures' construction. The purchased goods are included in these infrastructures. Therefore, at the end of infrastructures' useful life the waste produced correspond to those ones.

# Please select the scope

Scope 3

### Please select the lifecycle stage

End of life/Final disposal

### Emissions at the lifecycle stage in kg CO2e per unit

3121.38

# Is this stage under your ownership or control?

Yes

# Type of data used

Primary

### Data quality

The data quality is high because the metholodogy and calculation were verified by PwC and Deloitte. To calculated emissions, we used 2015 DEFRA Conversion Factors: Annex 14 "Indirect emissions resulting from Material Consumption and Waste Disposal" for solid waste . These emission factors used are in line with GHG Protocol Scope 3 Guidance and include total CO2, CH4 and N2O emissions in units of CO2e (CO2 equivalent). The GWP used for CO2 is 1, for CH4 is 21 and N2O is 310. In this category we considered the most relevant materials from the environment and volume point of view are included in the infrastructures' construction, being timber, paper, barrier, asphalt and concrete. Therefore, at the end of infrastructures' useful life the waste produced correspond to those ones. These data are reported annually by businesses to write the Annual Report and are audited and verified in accordance with the standards and procedures included in the International Standards on Assurance Engagements (ISAE 3000) by Deloitte. Furthermore, data, methodology and emissions of this section have been audited and verified in accordance with ISAE 3410 "Assurance Engagements other than Audits or Reviews of Historical Financial Information" by PwC. Therefore the quality of data and emissions reported is high. Regarding products sold, those are infrastructures' construction. The purchased goods are included in these infrastructures. Therefore, at the end of infrastructures' useful life the waste produced correspond to those ones. In this case the most relevant materials from the environment and volume point of view are included in the infrastructures' construction, being timber, paper, barrier, asphalt and concre

### If you are verifying/assuring this product emission data, please tell us how

In 2019, the 100 percent of Ferrovial 's GHG (Scope 1&2&3) have been verified under limited assurance by PwC, according to ISAE 3410. The document attached includes inventory of emissions and verification letter. In addition, other specific verifications have been made. So, in 2019 the 100 % of Ferrovial's GHG emissions (Scope 1&2%3&Biogenic CO2) included in the Integrated Annual Report were verified by Deloitte in accordance with ISAE 3000 and GRI.

(SC4.2c) Please detail emissions reduction initiatives completed or planned for this product.

	ID	Description of initiative	·	Emission reductions in kg CO2e per unit
Reducti on measur es	1	Ferrovial calculated the total figure for emissions in line with the guidelines included in the Corporate Value Chain (Scope 3) Accounting and Reporting Standard published by the Greenhouse Gas Protocol Initiative, the WRI and the WBCSD. In parallel, a specific reporting and calculation methodology scope 3 emissions was developed and included in a technical instruction. Ferrovial Agromán has worked on reducing Scope 3 emissions by focusing on work site, Ferrovial-Agromán has measures to reduce the emissions such as: - fleet intensity indicators for Spain. The company calculates the consumption of diesel in fleet vehicles (litres / number of vehicles). In 2019 the indicator has decreased by 28 % due to the measures implemented such as: efficient driving, proper maintenance of the fleet and including performance criteria in buying and leasing new vehicles intensity indicators in order to measure machinery performance. The company calculates the theoretical average fleet emissions per kilometre (gr. CO2 / km).	Ongoing	8844

### SC4.2d

(SC4.2d) Have any of the initiatives described in SC4.2c been driven by requesting CDP Supply Chain members?

# Submit your response

In which language are you submitting your response?

Please confirm how your response should be handled by CDP

	I am submitting to	Public or Non-Public Submission	Are you ready to submit the additional Supply Chain Questions?
I am submitting my response	Investors Customers	Public	Yes, submit Supply Chain Questions now

# Please confirm below

I have read and accept the applicable Terms