

Module: Introduction**Page: Introduction**

CC0.1**Introduction**

Please give a general description and introduction to your organization.

M50 Concession Ltd is the company in charge of the operation and maintenance of the M50 motorway in Dublin, Ireland. The M50 is a 40 Km C-shaped ring around Dublin that connects all the National Primary Routes leaving the capital and carries more than 115,000 vehicles per day. In 2007, the Irish Government awarded M50 Concession Ltd the 35-year concession contract to construct, finance and operate the M50. M50 Concession Ltd shareholders are Globalvia Inversiones, a major worldwide infrastructure developer and operator, and DIF, an independent fund management company.

CC0.2**Reporting Year**

Please state the start and end date of the year for which you are reporting data.

The current reporting year is the latest/most recent 12-month period for which data is reported. Enter the dates of this year first.

We request data for more than one reporting period for some emission accounting questions. Please provide data for the three years prior to the current reporting year if you have not provided this information before, or if this is the first time you have answered a CDP information request. (This does not apply if you have been offered and selected the option of answering the shorter questionnaire). If you are going to provide additional years of data, please give the dates of those reporting periods here. Work backwards from the most recent reporting year.

Please enter dates in following format: day(DD)/month(MM)/year(YYYY) (i.e. 31/01/2001).

Enter Periods that will be disclosed

Sun 01 Jan 2012 - Mon 31 Dec 2012

Tue 01 Jan 2013 - Tue 31 Dec 2013

CC0.3**Country list configuration**

Please select the countries for which you will be supplying data. This selection will be carried forward to assist you in completing your response.

Select country

Ireland

CC0.4**Currency selection**

Please select the currency in which you would like to submit your response. All financial information contained in the response should be in this currency.

EUR(€)

CC0.6**Modules**

As part of the request for information on behalf of investors, electric utilities, companies with electric utility activities or assets, companies in the automobile or auto component manufacture sectors, companies in the oil and gas industry, companies in the information technology and telecommunications sectors and companies in the food, beverage and tobacco sectors should complete supplementary questions in addition to the main questionnaire.

If you are in these sectors (according to the Global Industry Classification Standard (GICS)), the corresponding sector modules will not appear below but will automatically appear in the navigation bar when you save this page. If you want to query your classification, please email respond@cdp.net.

If you have not been presented with a sector module that you consider would be appropriate for your company to answer, please select the module below. If you wish to view the questions first, please see <https://www.cdp.net/en-US/Programmes/Pages/More-questionnaires.aspx>.

Further Information

M50 Concession Ltd aims to become the reference site of the toll operators in Ireland by conducting its business in a responsible and sustainable manner, respectful with the environment and committed to the society and its stakeholders. For this reason, M50 Concession Ltd operates under a Quality and Environmental Management System (QEMS) certified under ISO 14001, ISO 9001 and OHSAS 18001. As part of Environmental Policy (attached) we are committed to improve our environmental performance and minimise our adverse environmental impacts. In that sense, CDP represents a key element of our environmental strategy. We have already completed an assessment on our carbon footprint and set up a specific company objective to reduce our CHG emissions in the next years.

Attachments

[https://www.cdp.net/sites/2014/60/53060/Investor CDP 2014/Shared Documents/Attachments/InvestorCDP2014/CC0.Introduction/M50 CL Environmental Policy.pdf](https://www.cdp.net/sites/2014/60/53060/Investor%20CDP%202014/Shared%20Documents/Attachments/InvestorCDP2014/CC0.Introduction/M50%20CL%20Environmental%20Policy.pdf)

Module: Management

Page: CC1. Governance

CC1.1

Where is the highest level of direct responsibility for climate change within your organization?

Senior Manager/Officer

CC1.1a

Please identify the position of the individual or name of the committee with this responsibility

The Board of Directors, chaired by Brendan McGinn, has overall responsibility for ensuring that the strategy for managing climate change aspects meets the needs of M50 Concession Lts and its

stakeholders. The General Manager, Borja Santamaria, has the day-to-day management responsibility for climate change matters.

CC1.2

Do you provide incentives for the management of climate change issues, including the attainment of targets?

No

CC1.2a

Please provide further details on the incentives provided for the management of climate change issues

Who is entitled to benefit from these incentives?	The type of incentives	Incentivized performance indicator

Further Information

Page: CC2. Strategy

CC2.1

Please select the option that best describes your risk management procedures with regard to climate change risks and opportunities

There are no documented processes for assessing and managing risks and opportunities from climate change

CC2.1a

Please provide further details on your risk management procedures with regard to climate change risks and opportunities

Frequency of monitoring	To whom are results reported	Geographical areas considered	How far into the future are risks considered?	Comment
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CC2.1b

Please describe how your risk and opportunity identification processes are applied at both company and asset level

CC2.1c

How do you prioritize the risks and opportunities identified?

CC2.1d

Please explain why you do not have a process in place for assessing and managing risks and opportunities from climate change, and whether you plan to introduce such a process in future

Main reason for not having a process	Do you plan to introduce a process?	Comment
Insufficient knowledge of climate change impacts	Yes	

CC2.2**Is climate change integrated into your business strategy?**

Yes

CC2.2a**Please describe the process of how climate change is integrated into your business strategy and any outcomes of this process**

i) How the business strategy has been influenced -

The business strategy is agreed by the Board of Directors on an annual basis. To define the business strategy, the Board of Directors takes into consideration any relevant risks and opportunities in the short and long term. In 2014, the Board of Directors decided to include among its considerations to define the business strategy all those relating to climate change and the General Manager was made responsible for their collection and reporting. Since then, the risks and opportunities related to climate change have been collected on an on-going basis through the QEMS Management Review Committee, which is chaired by the General Manager and comprises of the rest of the operating managers of the Company. Once the business strategy is agreed, then it is captured into the annual business plan which is reflected into the annual budget. The annual budget facilitates the appropriate planning, resourcing and implementation of any climate change related activities identified.

ii) What aspects of climate change have influenced the strategy –

The business strategy has been mainly influenced by the aim of the Company to improve our environmental performance and minimise our adverse impacts on climate change. For that reason, and although the Company has no legal or regulatory obligations in relation to climate change reporting or performance, the Board of Directors decided that the Company should identify and implement green business initiatives including reporting to CDP.

iii) The most important components of the short term strategy that have been influenced by climate change -

Our short-term business strategy responds to climate change in two main ways:

- Assessing the impact that our business has on climate change: This has translated into changes on our operational procedures to ensure an appropriate tracking of our GHGs emissions
- Delivering specific initiatives to reduce our impact on climate change: Our initiatives are orientated on reducing our current level of GHG emissions and focused specially on our electricity consumption, which represents more than 80% of our current emissions.

iv) The most important components of the long term strategy that have been influenced by climate change –

The Company considers that material climate change risks are unlikely to materialise in the next twenty years. However, in terms of opportunities, the Company recognises that any climate change initiative must be evaluated on a long term perspective, taking into account the whole length of our Contract. As an example, our long term streetlighting strategy has been evaluated on the basis of a cost-benefit analysis where climate change has been taken into account. As a result, it has been decided to pursue the introduction of a new dimming technology.

v) How this is gaining us strategic advantage over our competitors -

The integration of climate change into our business strategy will help us to conduct our activity in a responsible and sustainable manner. This will prove our

commitment with society and will enhance our relationships with our Authority and stakeholders, helping us to achieve our goal to be generally recognised as the lead reference of the toll operators in Ireland. We considered this recognition to be a key competitive advantage.

vi) What have been the most substantial business decisions made during the reporting year that have been influenced by the climate change driven aspects of the strategy -

- The decision to carry out an assessment on the Company's carbon footprint as well as to join the CDP.
- The implementation of tools to ensure the on-going tracking of our GHGs emissions, like energy, waste and fuel trackers.
- The definition of environmental objectives related to the reduction of our GHGs emissions.
- The implementation of measures to achieve these objectives, including the streetlighting dimming technology trial and the office-energy saving initiative.

CC2.2b

Please explain why climate change is not integrated into your business strategy

CC2.3

Do you engage in activities that could either directly or indirectly influence public policy on climate change through any of the following? (tick all that apply)

No

CC2.3a

On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate Position	Details of engagement	Proposed legislative solution
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CC2.3b

Are you on the Board of any trade associations or provide funding beyond membership?

CC2.3c

Please enter the details of those trade associations that are likely to take a position on climate change legislation

Trade association	Is your position on climate change consistent with theirs?	Please explain the trade association's position	How have you, or are you attempting to, influence the position?
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CC2.3d

Do you publically disclose a list of all the research organizations that you fund?

CC2.3e

Do you fund any research organizations to produce or disseminate public work on climate change?

CC2.3f

Please describe the work and how it aligns with your own strategy on climate change

CC2.3g

Please provide details of the other engagement activities that you undertake

CC2.3h

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?

CC2.3i

Please explain why you do not engage with policy makers

Currently there is no mandatory reporting policy on climate change in Ireland but it is expected that the Irish Government will implement such a scheme in the near future. M50 Concession Ltd aims to take part on the incoming discussions regarding the new government policy on climate change through our membership in IBEC (Irish Business and Employers Confederation). IBEC is the most relevant association representing Irish business and it works with government and policy makers, nationally and internationally, to shape business conditions and drive economic growth

Further Information

Page: CC3. Targets and Initiatives

CC3.1

Did you have an emissions reduction target that was active (ongoing or reached completion) in the reporting year?

No

CC3.1a

Please provide details of your absolute target

ID	Scope	% of emissions in scope	% reduction from base year	Base year	Base year emissions (metric tonnes CO2e)	Target year	Comment
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CC3.1b

Please provide details of your intensity target

ID	Scope	% of emissions in scope	% reduction from base year	Metric	Base year	Normalized base year emissions	Target year	Comment
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CC3.1c

Please also indicate what change in absolute emissions this intensity target reflects

ID	Direction of change anticipated in absolute Scope 1+2 emissions at target completion?	% change anticipated in absolute Scope 1+2 emissions	Direction of change anticipated in absolute Scope 3 emissions at target completion?	% change anticipated in absolute Scope 3 emissions	Comment
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CC3.1d

For all of your targets, please provide details on the progress made in the reporting year

ID	% complete (time)	% complete (emissions)	Comment

CC3.1e

Please explain (i) why you do not have a target; and (ii) forecast how your emissions will change over the next five years

- i) This is our first year measuring our emissions and responding to CDP. However, a target will be set up for the next years.
- ii) Our overall emissions should ideally reduce over the coming 5 years on a 25% in absolute terms in relation to 2013 emissions, measured in terms of metric tonnes CO2e.

CC3.2

Does the use of your goods and/or services directly enable GHG emissions to be avoided by a third party?

Yes

CC3.2a

Please provide details of how the use of your goods and/or services directly enable GHG emissions to be avoided by a third party

- i) Whether avoided emissions represent the third party's Scope 1 emissions, Scope 2 emissions, or both.
Avoided emissions represent the third party's Scope 1 emissions.
- ii) How the Scope 1 and/or Scope 2 emissions are/were avoided by the third party.
Transport is a significant contributor to GHG emissions. However motorways reduce the Scope 1 emissions associated with a specific trip. This is because free-flow travel produces lower emissions than a comparable trip in the stop-start conditions of major arterial roads.
In our particular case, M50 Concession Ltd carried out between 2007 and 2010 major improvements on the M50 motorway as part of the M50 Upgrade Scheme works. These works included the construction of a third lane in each direction in a total distance of approximately 32km and the provision of auxiliary lanes in nearly 16km. Traffic circulation was further improved by upgrading all the interchanges to provide full or partial free flow lanes. Finally, the old toll barrier plaza was

substituted with a fully electronic barrier-free tolling system.

As a result of these upgrading works, travel times and congestion problems were improved in a very significant way in all the Dublin Metropolitan Area. It is estimated that journey times on M50 were reduced roughly by a 50% during the day, thus benefiting an average of 115,000 customers who use the M50 motorway every day.

iii) An estimate of the amount of emissions that are/were avoided over time

M50 Concession Ltd has not available an accurate estimation of the avoided emissions by third parties.

iv) The methodology, assumptions, emission factors and global warming potentials used for your estimations

M50 Concession Ltd has not available an accurate estimation of the avoided emissions by third parties.

v) Whether you are considering generating CERs or ERUs within the framework of CDM or JI (UNFCCC).

M50 Concession Ltd is not considering generating CERs or ERUs within the framework of CDM or JI (UNFCCC).

CC3.3

Did you have emissions reduction initiatives that were active within the reporting year (this can include those in the planning and implementation phases)

Yes

CC3.3a

Please identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings

Stage of development	Number of projects	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	2	450
To be implemented*	2	48
Implementation commenced*	0	0
Implemented*	1	5
Not to be implemented	1	

CC3.3b

For those initiatives implemented in the reporting year, please provide details in the table below

Activity type	Description of activity	Estimated annual CO2e savings (metric tonnes CO2e)	Annual monetary savings (unit currency - as specified in CC0.4)	Investment required (unit currency - as specified in CC0.4)	Payback period	Estimated lifetime of the initiative, years	Comment
Energy efficiency: Processes	Office and depot buildings: Plan to reduce office and depot buildings related emissions. This plan consisted of the implementation of a set of different actions including: 1. Communication to all staff of the environmental office guidelines 2. Ensure that power management is being used on employee PC / Monitor / Printing equipment 3. Communication policy to all staff regarding switching off lights, electrical devices, printers and PC's when not required. 4. Installation of signage around the office reminding staff to switch off lights printers, etc. 5. Placing PC's and printers, copiers and other electrical devices on standby mode when not in use. 6. Use of energy saving bulbs. 7. Use of PIR timer switches and sensors for office lighting. 8. Collect and recycle spent ink cartridges and paper waste. 9. Installation of limiting timers in all hot water boilers 10. Use of building heat for production of hot water 11. Reuse of own cups and cutlery. 12. Use of reusable products, recycled-content products, and recyclable products, where possible 13. Ensure all electrical equipment is completely turned off in the evening and at weekends	5	3000	1000	<1 year	10 years	

CC3.3c

What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Financial optimization calculations	Net Present Value (NPV) / pay back periods: Investment in emission reduction activities are driven by the long term cost-benefit analysis and pay-back periods.
Employee engagement	Staff engagement around emission reduction activities is promoted through our QEMS System and driven through the QEMS Management Review Committee meetings.

CC3.3d

If you do not have any emissions reduction initiatives, please explain why not

Further Information

Page: CC4. Communication

CC4.1

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	Page/Section reference	Attach the document
No		

Further Information

As a private Irish company, we don't have any legal or regulatory obligations in relation to publish our climate change performance. However, the Company has now chosen to measure and to voluntarily disclose our emissions to CDP as part of our climate change initiatives.

Module: Risks and Opportunities

Page: CC5. Climate Change Risks

CC5.1

Have you identified any climate change risks that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

- Risks driven by changes in regulation
- Risks driven by changes in physical climate parameters
- Risks driven by changes in other climate-related developments

CC5.1a

Please describe your risks driven by changes in regulation

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Carbon taxes	Increase in the current carbon tax in Ireland aimed at reducing GHG emissions, including transport.	Increased operational cost	Unknown	Indirect (Supply chain)	Likely	Low	We anticipate low negative financial implications from the increase in Carbon taxes related to the fact that operating costs will increase as a result of the carbon tax, the expansion of the renewable energy requirements and the consequential increases in CPI.	Implementation of measures to reduce our GHG emissions, like the CDP reporting initiative.	These actions don't represent additional material costs to the business.
Uncertainty surrounding new regulation	The current uncertainty surrounding the future of Emission's Policy in Ireland	Increased operational cost	Unknown	Indirect (Supply chain)	Unknown	Unknown	Unknown	M50 Concession Ltd. carries out annual reviews and updates on legislation as part of our QEMS, including climate change legislative developments	These actions don't represent additional material costs to the business.
Emission reporting obligations	Introduction by the Irish Government of new regulations that demand the disclosure of data to private entities regarding energy reporting obligations as well as	Increased operational cost	Unknown	Indirect (Supply chain)	More likely than not	Low	Additional costs in order to put in place the necessary reporting processes and procedures	Anticipation of the potential requirements by joining the CDP in advance.	These actions don't represent additional material costs to the business.

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	emissions reporting								

CC5.1b

Please describe your risks that are driven by change in physical climate parameters

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Change in precipitation extremes and droughts	An increase in extreme rainfall events has the potential to increase the number of road incidents, landslips, flooding and deterioration of some infrastructure.	Increased operational cost	Unknown	Direct	Likely	Low	We anticipate a low increase in operating and maintenance costs	Implementation of climate change initiatives, like the CDP reporting initiative.	These actions don't represent additional material costs to the business.
Snow and ice	An increase in the severity and number of extreme ice and snow events will increase the winter maintenance requirements and could multiply the number of road incidents in the road, as well as accelerate the deterioration of the	Increased operational cost	Unknown	Direct	Likely	Low	We anticipate low negative financial implications related to the increase in winter maintenance costs (salt consumption, gritting operations, etc)	Implementation of climate change initiatives, like the CDP reporting initiative.	These actions don't represent additional material costs to the business.

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	asphalt and some other infrastructure assets.								
Change in temperature extremes	A significant increase in temperature may accelerate the deterioration rate of the asphalt. This may lead to traffic disruption and vehicle damage. Extreme temperatures may also lead to an increase in the number of vehicles breaking down, which may lead to traffic flow disruption and road congestion.	Increased operational cost	Unknown	Direct	Likely	Low	We anticipate low increases in pavement maintenance and replacement costs.	Implementation of climate change initiatives, like the CDP reporting initiative.	These actions don't represent additional material costs to the business.

CC5.1c

Please describe your risks that are driven by changes in other climate-related developments

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated Financial Implications	Management method	Cost of management
Other drivers	There may be fewer additional public funds available to improve our	Reduced demand for goods/services	Unknown	Direct	Very unlikely	Low	We anticipate a reduction of additional revenues from	Implementation of climate change initiatives, like the CDP reporting	These actions don't represent additional material costs to

Risk driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated Financial Implications	Management method	Cost of management
	motorway as they would be used in favour of public transport and alternative land transport such as rail.						operational variations to our contract.	initiative.	the business.

CC5.1d

Please explain why you do not consider your company to be exposed to risks driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1e

Please explain why you do not consider your company to be exposed to risks driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC5.1f

Please explain why you do not consider your company to be exposed to risks driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Page: CC6. Climate Change Opportunities

CC6.1

Have you identified any climate change opportunities that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

- Opportunities driven by changes in regulation
- Opportunities driven by changes in other climate-related developments

CC6.1a

Please describe your opportunities that are driven by changes in regulation

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Fuel/energy taxes and regulations	Regulations aimed mainly at the consumption of fuel may lead to less travel on our motorway. As our revenues consist mainly of availability payments, they won't be affected	Reduced operational costs	Unknown	Direct	Unknown	Low	We anticipate small reduction of operating and maintenance costs related to the fact that there will be less vehicles and heavy trucks using the	Implementation of climate change initiatives, like the CDP reporting initiative.	These actions don't represent additional material costs to the business.

Opportunity driver	Description	Potential impact	Timeframe	Direct/Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	by a reduction on traffic volumes. However, we will benefit from a positive impact in our operating and maintenance costs.						motorway		

CC6.1b

Please describe the opportunities that are driven by changes in physical climate parameters

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management

CC6.1c

Please describe the opportunities that are driven by changes in other climate-related developments

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Changing consumer	Government and community action to	Reduced operational	Unknown	Direct	Exceptionally unlikely	Low	We anticipate small reduction	Implementation of climate	These actions don't represent

Opportunity driver	Description	Potential impact	Timeframe	Direct/ Indirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
behaviour	reduce GHG emissions from transport may lead to less travel on our motorway. As our revenues consist mainly of availability payments, they won't be affected by a reduction on traffic volumes. However, we will benefit from a positive impact in our operating and maintenance costs..	costs					of operating and maintenance costs related to the fact that there will be less vehicles and heavy trucks using the motorway	change initiatives, like the CDP reporting initiative.	additional material costs to the business.

CC6.1d

Please explain why you do not consider your company to be exposed to opportunities driven by changes in regulation that have the potential to generate a substantive change in your business operations, revenue or expenditure

CC6.1e

Please explain why you do not consider your company to be exposed to opportunities driven by physical climate parameters that have the potential to generate a substantive change in your business operations, revenue or expenditure

We have assessed the physical impacts from climate change and we don't consider that these will result in any significant opportunities for M50 Concession Ltd. In fact, we consider the potential physical impacts of climate change on our business as risks to be managed rather than opportunities to the business and these are addressed in the risk section of our submission.

CC6.1f

Please explain why you do not consider your company to be exposed to opportunities driven by changes in other climate-related developments that have the potential to generate a substantive change in your business operations, revenue or expenditure

Further Information

Module: GHG Emissions Accounting, Energy and Fuel Use, and Trading

Page: CC7. Emissions Methodology

CC7.1

Please provide your base year and base year emissions (Scopes 1 and 2)

Base year	Scope 1 Base year emissions (metric tonnes CO2e)	Scope 2 Base year emissions (metric tonnes CO2e)
Sun 01 Jan 2012 - Mon 31 Dec 2012	258	1826

CC7.2

Please give the name of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

Please select the published methodologies that you use

ISO 14064-1

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

CC7.2a

If you have selected "Other" in CC7.2 please provide details of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

CC7.3

Please give the source for the global warming potentials you have used

Gas	Reference
CO2	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	IPCC Fourth Assessment Report (AR4 - 100 year)

CC7.4

Please give the emissions factors you have applied and their origin; alternatively, please attach an Excel spreadsheet with this data at the bottom of this page

Fuel/Material/Energy	Emission Factor	Unit	Reference
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Further Information**Attachments**

[https://www.cdp.net/sites/2014/60/53060/Investor CDP 2014/Shared Documents/Attachments/InvestorCDP2014/CC7.EmissionsMethodology/M50 Emission Factors 2013.xlsx](https://www.cdp.net/sites/2014/60/53060/Investor%20CDP%202014/Shared%20Documents/Attachments/InvestorCDP2014/CC7.EmissionsMethodology/M50%20Emission%20Factors%202013.xlsx)

Page: CC8. Emissions Data - (1 Jan 2012 - 31 Dec 2012)

CC8.1

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Operational control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO₂e

CC8.3

Please provide your gross global Scope 2 emissions figures in metric tonnes CO₂e

1826

CC8.4

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

CC8.4a

Please provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure

Source	Relevance of Scope 1 emissions from this source	Relevance of Scope 2 emissions excluded from this source	Explain why the source is excluded
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CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope 1 emissions: Uncertainty range	Scope 1 emissions: Main sources of uncertainty	Scope 1 emissions: Please expand on the uncertainty in your data	Scope 2 emissions: Uncertainty range	Scope 2 emissions: Main sources of uncertainty	Scope 2 emissions: Please expand on the uncertainty in your data
More than 2% but less than or equal to 5%	Data Gaps Metering/ Measurement Constraints	Reliant on 3rd party supplier for data.	More than 2% but less than or equal to 5%	Metering/ Measurement Constraints	Reliant on 3rd party supplier for data.

CC8.6

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

Third party verification or assurance complete

CC8.6a

Please provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)
Reasonable assurance	https://www.cdp.net/sites/2014/60/53060/Investor CDP 2014/Shared Documents/Attachments/CC8.6a/M50 Verification Statement 2012-2013 .pdf		ISO14064-3	100

CC8.6b

Please provide further details of the regulatory regime to which you are complying that specifies the use of Continuous Emissions Monitoring Systems (CEMS)

Regulation	% of emissions covered by the system	Compliance period	Evidence of submission
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CC8.7

Please indicate the verification/assurance status that applies to your reported Scope 2 emissions

Third party verification or assurance complete

CC8.7a

Please provide further details of the verification/assurance undertaken for your Scope 2 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of Scope 2 emissions verified (%)
Reasonable assurance	https://www.cdp.net/sites/2014/60/53060/Investor CDP 2014/Shared Documents/Attachments/CC8.7a/M50 Verification Statement 2012-2013 .pdf		ISO14064-3	100

CC8.8

Please identify if any data points other than emissions figures have been verified as part of the third party verification work undertaken

Additional data points verified	Comment
No additional data verified	

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

CC8.9a

Please provide the emissions from biologically sequestered carbon relevant to your organization in metric tonnes CO2

Further Information

Page: CC8. Emissions Data - (1 Jan 2013 - 31 Dec 2013)

CC8.1

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Operational control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO2e

282

CC8.3

Please provide your gross global Scope 2 emissions figures in metric tonnes CO2e

2002

CC8.4

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

CC8.4a

Please provide details of the sources of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure

Source	Relevance of Scope 1 emissions from this source	Relevance of Scope 2 emissions excluded from this source	Explain why the source is excluded

CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope 1 emissions: Uncertainty range	Scope 1 emissions: Main sources of uncertainty	Scope 1 emissions: Please expand on the uncertainty in your data	Scope 2 emissions: Uncertainty range	Scope 2 emissions: Main sources of uncertainty	Scope 2 emissions: Please expand on the uncertainty in your data
More than 5% but less than or equal to 10%	Data Gaps Metering/ Measurement Constraints	Reliant on 3rd party supplier data.	More than 2% but less than or equal to 5%	Metering/ Measurement Constraints	Reliant on 3rd party supplier data.

CC8.6

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

Third party verification or assurance complete

CC8.6a

Please provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)
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Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)
Reasonable assurance	https://www.cdp.net/sites/2014/60/53060/Investor CDP 2014/Shared Documents/Attachments/CC8.6a/M50 Verification Statement 2012-2013 .pdf		ISO14064-3	100

CC8.6b

Please provide further details of the regulatory regime to which you are complying that specifies the use of Continuous Emissions Monitoring Systems (CEMS)

Regulation	% of emissions covered by the system	Compliance period	Evidence of submission

CC8.7

Please indicate the verification/assurance status that applies to your reported Scope 2 emissions

Third party verification or assurance complete

CC8.7a

Please provide further details of the verification/assurance undertaken for your Scope 2 emissions, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of Scope 2 emissions verified (%)
Reasonable assurance	https://www.cdp.net/sites/2014/60/53060/Investor CDP 2014/Shared Documents/Attachments/CC8.7a/M50 Verification Statement 2012-2013 .pdf		ISO14064-3	100

CC8.8

Please identify if any data points other than emissions figures have been verified as part of the third party verification work undertaken

Additional data points verified	Comment
No additional data verified	

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

CC8.9a

Please provide the emissions from biologically sequestered carbon relevant to your organization in metric tonnes CO2

Further Information

CC9.1

Do you have Scope 1 emissions sources in more than one country?

No

CC9.1a

Please break down your total gross global Scope 1 emissions by country/region

Country/Region	Scope 1 metric tonnes CO2e

CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

By activity

CC9.2a

Please break down your total gross global Scope 1 emissions by business division

Business division	Scope 1 emissions (metric tonnes CO2e)
-------------------	--

CC9.2b

Please break down your total gross global Scope 1 emissions by facility

Facility	Scope 1 emissions (metric tonnes CO2e)	Latitude	Longitude
----------	--	----------	-----------

CC9.2c

Please break down your total gross global Scope 1 emissions by GHG type

GHG type	Scope 1 emissions (metric tonnes CO2e)
----------	--

CC9.2d

Please break down your total gross global Scope 1 emissions by activity

Activity	Scope 1 emissions (metric tonnes CO2e)
Transport	242
Heating	16

CC9.2e

Please break down your total gross global Scope 1 emissions by legal structure

Legal structure	Scope 1 emissions (metric tonnes CO2e)
-----------------	--

Further Information

Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2013 - 31 Dec 2013)

CC9.1

Do you have Scope 1 emissions sources in more than one country?

No

CC9.1a

Please break down your total gross global Scope 1 emissions by country/region

Country/Region	Scope 1 metric tonnes CO2e
----------------	----------------------------

CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

By activity

CC9.2a

Please break down your total gross global Scope 1 emissions by business division

Business division	Scope 1 emissions (metric tonnes CO2e)
-------------------	--

CC9.2b

Please break down your total gross global Scope 1 emissions by facility

Facility	Scope 1 emissions (metric tonnes CO2e)	Latitude	Longitude
----------	--	----------	-----------

CC9.2c

Please break down your total gross global Scope 1 emissions by GHG type

GHG type	Scope 1 emissions (metric tonnes CO2e)
----------	--

CC9.2d

Please break down your total gross global Scope 1 emissions by activity

Activity	Scope 1 emissions (metric tonnes CO2e)
Transport	255
Heating	27

CC9.2e

Please break down your total gross global Scope 1 emissions by legal structure

Legal structure	Scope 1 emissions (metric tonnes CO2e)
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Further Information

Page: **CC10. Scope 2 Emissions Breakdown - (1 Jan 2012 - 31 Dec 2012)**

CC10.1

Do you have Scope 2 emissions sources in more than one country?

No

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2 metric tonnes CO2e	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted for CC8.3 (MWh)
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CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

By activity

CC10.2a

Please break down your total gross global Scope 2 emissions by business division

Business division	Scope 2 emissions (metric tonnes CO2e)
-------------------	--

CC10.2b

Please break down your total gross global Scope 2 emissions by facility

Facility	Scope 2 emissions (metric tonnes CO2e)
----------	--

CC10.2c

Please break down your total gross global Scope 2 emissions by activity

Activity	Scope 2 emissions (metric tonnes CO2e)
Street Lighting	1781
Office Lighting	45

CC10.2d

Please break down your total gross global Scope 2 emissions by legal structure

Legal structure	Scope 2 emissions (metric tonnes CO2e)
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Further Information

Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2013 - 31 Dec 2013)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

No

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2 metric tonnes CO ₂ e	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted for CC8.3 (MWh)
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CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

By activity

CC10.2a

Please break down your total gross global Scope 2 emissions by business division

Business division	Scope 2 emissions (metric tonnes CO2e)
-------------------	--

CC10.2b

Please break down your total gross global Scope 2 emissions by facility

Facility	Scope 2 emissions (metric tonnes CO2e)
----------	--

CC10.2c

Please break down your total gross global Scope 2 emissions by activity

Activity	Scope 2 emissions (metric tonnes CO2e)
Street Lighting	1995
Office Lighting	47

CC10.2d

Please break down your total gross global Scope 2 emissions by legal structure

Legal structure	Scope 2 emissions (metric tonnes CO2e)
-----------------	--

Further Information

Page: CC11. Energy

CC11.1

What percentage of your total operational spend in the reporting year was on energy?

More than 20% but less than or equal to 25%

CC11.2

Please state how much fuel, electricity, heat, steam, and cooling in MWh your organization has purchased and consumed during the reporting year

Energy type	MWh
Fuel	1094
Electricity	4162
Heat	
Steam	
Cooling	

CC11.3

Please complete the table by breaking down the total "Fuel" figure entered above by fuel type

Fuels	MWh
Kerosene	94
Diesel/Gas oil	970
Motor gasoline	30

CC11.4

Please provide details of the electricity, heat, steam or cooling amounts that were accounted at a low carbon emission factor in the Scope 2 figure reported in CC8.3

Basis for applying a low carbon emission factor	MWh associated with low carbon electricity, heat, steam or cooling	Comment
No purchases or generation of low carbon electricity, heat, steam or cooling accounted with a low carbon emissions factor		

Further Information

Page: CC12. Emissions Performance

CC12.1

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

Increased

CC12.1a

Please 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

Reason	Emissions value (percentage)	Direction of change	Comment
Emissions reduction activities			
Divestment			
Acquisitions			
Mergers			
Change in output			
Change in methodology			
Change in boundary			
Change in physical operating conditions	6.5	Increase	Change in timing of metering of electricity.
Unidentified			
Other	3	Increase	Electricity grid factors have increased.

CC12.2

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per unit currency total revenue

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
.0004	metric tonnes CO2e	unit total revenue	33	Increase	An increase in emissions of 9.5% in conjunction with a reduction in revenue.

CC12.3

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per full time equivalent (FTE) employee

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
95.18	metric tonnes CO2e	FTE employee	19	Increase	A reduction in employee numbers in conjunction with an increase in emissions.

CC12.4

Please provide an additional intensity (normalized) metric that is appropriate to your business operations

Intensity figure	Metric numerator	Metric denominator	% change from previous year	Direction of change from previous year	Reason for change
1.67	metric tonnes CO2e	Other: Million Vehicle Km Travelled	6	Increase	An increase in emissions and KM travelled on the M50.

Further Information

Page: **CC13. Emissions Trading**

CC13.1

Do you participate in any emissions trading schemes?

No, and we do not currently anticipate doing so in the next 2 years

CC13.1a

Please complete the following table for each of the emission trading schemes in which you participate

Scheme name	Period for which data is supplied	Allowances allocated	Allowances purchased	Verified emissions in metric tonnes CO2e	Details of ownership

CC13.1b

What is your strategy for complying with the schemes in which you participate or anticipate participating?

CC13.2

Has your organization originated any project-based carbon credits or purchased any within the reporting period?

No

CC13.2a

Please provide details on the project-based carbon credits originated or purchased by your organization in the reporting period

Credit origination or credit purchase	Project type	Project identification	Verified to which standard	Number of credits (metric tonnes of CO2e)	Number of credits (metric tonnes CO2e): Risk adjusted volume	Credits cancelled	Purpose, e.g. compliance
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Further Information

Page: CC14. Scope 3 Emissions

CC14.1

Please account for your organization's Scope 3 emissions, disclosing and explaining any exclusions

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using primary data	Explanation
Purchased goods and services	Relevant, calculated	39	Ecoinvent data used to footprint road salt and Defra factors used for Water footprint	100.00%	Use of Salt on Road for De - icing and water for cleaning and sanitation
Capital goods	Relevant, not yet calculated				
Fuel-and-energy-related activities (not included in Scope 1 or 2)	Not evaluated				
Upstream transportation and distribution	Not evaluated				
Waste generated in operations	Relevant, calculated	6	Defra factors applied to volumes provided by waste contractor.	100.00%	Waste Disposal and recycling
Business travel	Not relevant, explanation				Very small amount of air travel

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using primary data	Explanation
	provided				
Employee commuting	Not relevant, explanation provided				Small number of employees, minimal impact on footprint.
Upstream leased assets	Not relevant, explanation provided				Minimum impact, only 2 vehicles.
Downstream transportation and distribution	Relevant, not yet calculated		3rd party contractors generate emissions in support of M50.		We will review the opportunity to engage with our contractors on emissions reduction initiatives going forward.
Processing of sold products	Not relevant, explanation provided				
Use of sold products	Not evaluated				
End of life treatment of sold products	Not relevant, explanation provided				No product sold
Downstream leased assets	Not evaluated				
Franchises	Not relevant, explanation provided				No franchise
Investments	Not evaluated				
Other (upstream)	Not evaluated				
Other (downstream)	Not evaluated				

CC14.2

Please indicate the verification/assurance status that applies to your reported Scope 3 emissions

CC14.2a

Please provide further details of the verification/assurance undertaken, and attach the relevant statements

Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of Scope 3 emissions verified (%)
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CC14.3

Are you able to compare your Scope 3 emissions for the reporting year with those for the previous year for any sources?

CC14.3a

Please identify the reasons for any change in your Scope 3 emissions and for each of them specify how your emissions compare to the previous year

Sources of Scope 3 emissions	Reason for change	Emissions value (percentage)	Direction of change	Comment
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CC14.4

Do you engage with any of the elements of your value chain on GHG emissions and climate change strategies? (Tick all that apply)

Yes, our customers

Yes, other partners in the value chain

CC14.4a

Please give details of methods of engagement, your strategy for prioritizing engagements and measures of success

Working with NRA, and local councils on energy reduction projects.

CC14.4b

To give a sense of scale of this engagement, please give the number of suppliers with whom you are engaging and the proportion of your total spend that they represent

Number of suppliers	% of total spend	Comment
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CC14.4c

If you have data on your suppliers' GHG emissions and climate change strategies, please explain how you make use of that data

How you make use of the data	Please give details
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CC14.4d

Please explain why you do not engage with any elements of your value chain on GHG emissions and climate change strategies, and any plans you have to develop an engagement strategy in the future

Further Information

Module: Sign Off

Page: CC15. Sign Off

CC15.1

Please provide the following information for the person that has signed off (approved) your CDP climate change response

Name	Job title	Corresponding job category
Borja Santamaria Mariscal	General Manager	Chief Executive Officer (CEO)

Further Information

CDP 2014 Investor CDP 2014 Information Request