



Climate-related risk data

ERM Sustainability Report 2021

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The business of sustainability

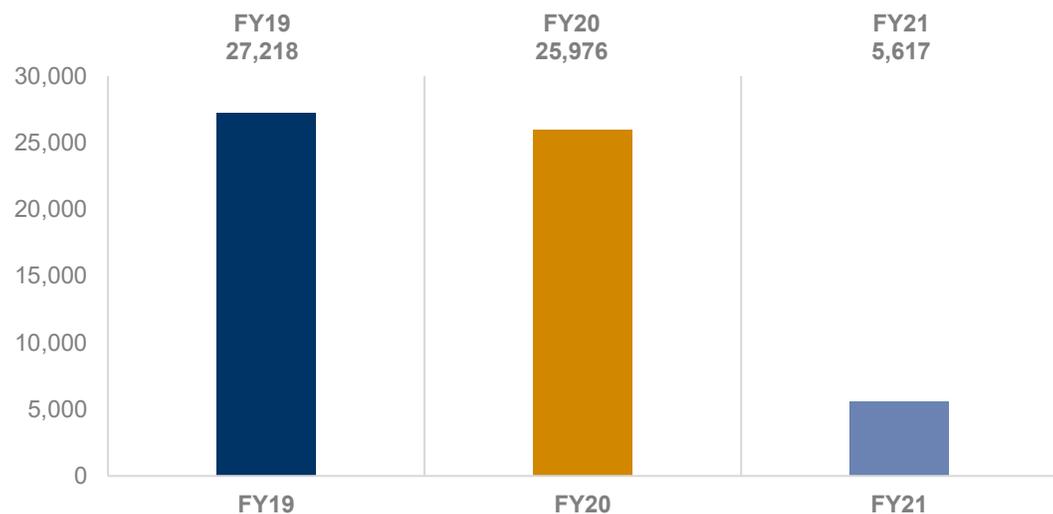


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Total GHG emissions

GRI 305-1, GRI 305-2, GRI 305-3

Total GHG emissions FY19 – FY21 (tCO₂e) *



* Total GHG emissions include Scopes 1, 2 and 3 emissions.

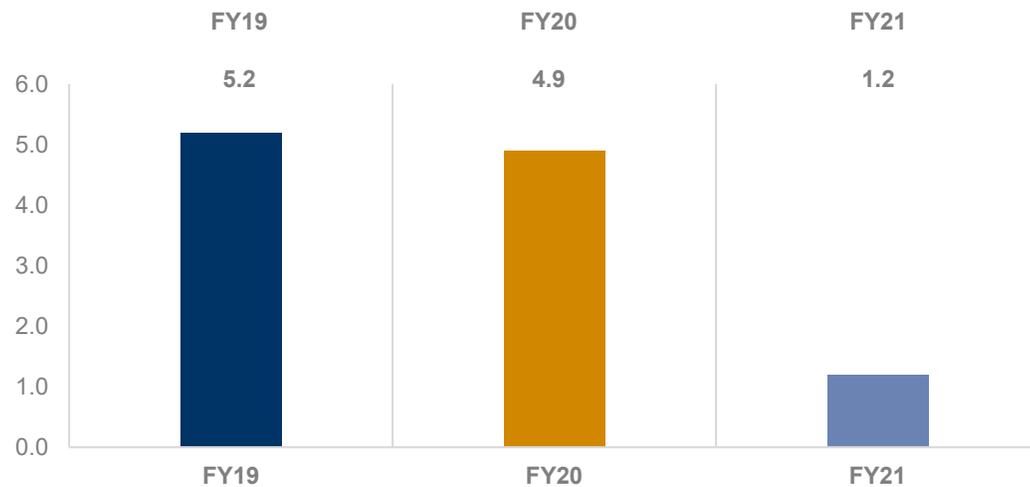
Total GHG emissions, by region FY19 – FY21 (tCO₂e) *

	FY19	FY20	FY21
Asia Pacific	4,102	3,570	1,125
Europe, Middle East and Africa	4,694	4,531	1,049
Latin America and Caribbean	1,475	1,273	207
North America	15,386	15,361	3,165
Global Businesses	563	503	33
Group	998	738	38
Total	27,218	25,976	5,617

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Total GHG emissions intensity

GRI 305-4

GHG emissions intensity FY19 – FY21 (tCO₂e/FTE)^{1 2}

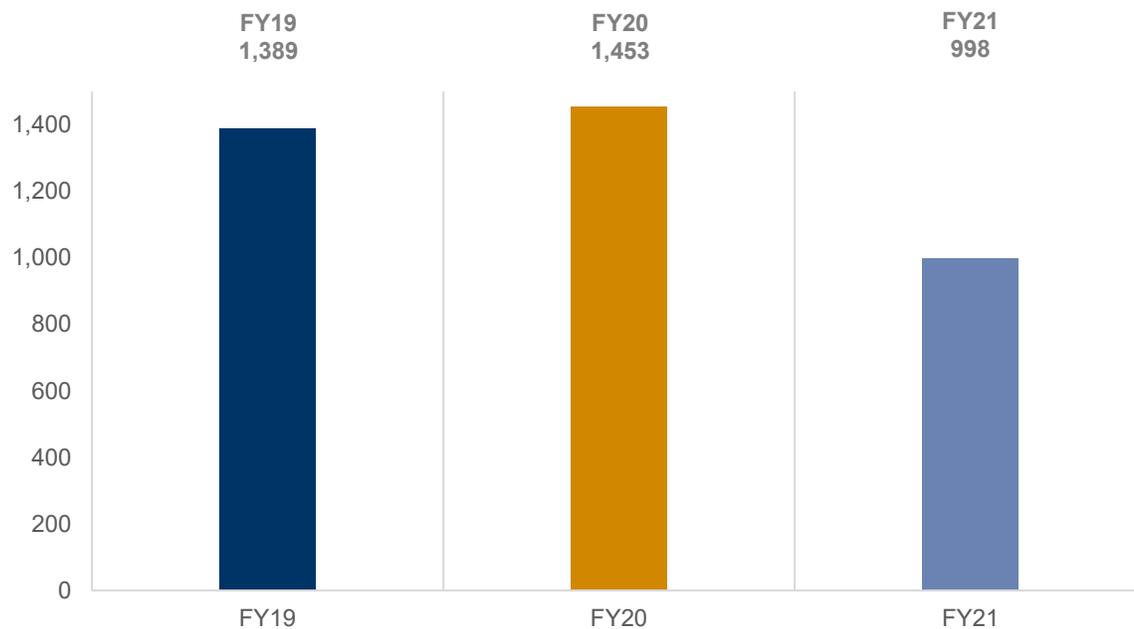
¹ Total GHG emissions normalized by average full-time equivalent employees (FTEs).

² The disruption resulting from the COVID-19 pandemic significantly impacted ERM's GHG emissions in FY21.

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Scope 1 emissions GRI 305-1

Scope 1 emissions FY19 – FY21 (tCO₂e) ^{1 2}



Scope 1 emissions, by region FY19 – FY21 (tCO₂e) ^{1 2}

	FY19	FY20	FY21
Asia Pacific	80	77	53
Europe, Middle East and Africa	512	445	322
Latin America and Caribbean	36	27	15
North America	760	903	608
Total	1,389	1,453	998

¹ Scope 1 includes direct emissions from operations we own or control.

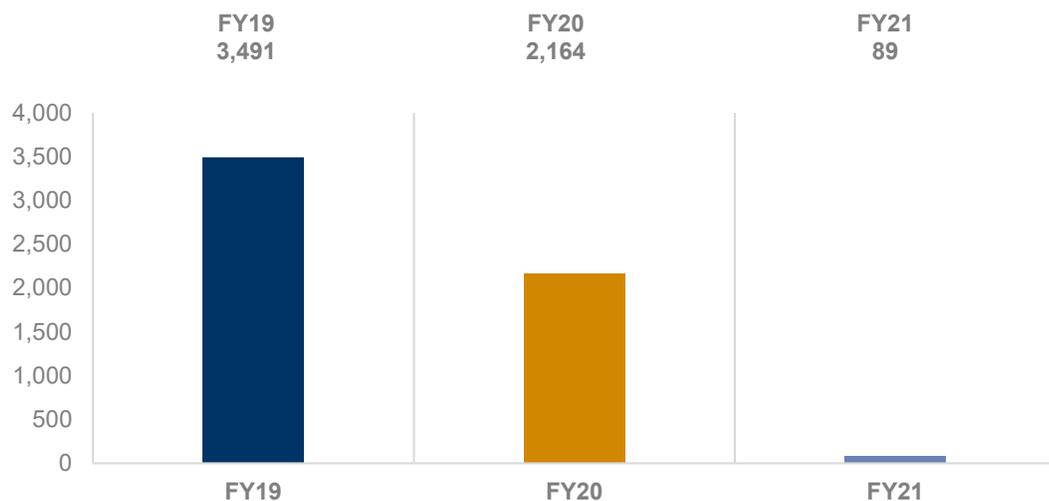
² Emissions from Global Businesses and Group are included in data for the ERM region in which employees' home offices are located.

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Scope 2 emissions

GRI 305-2

Scope 2 emissions FY19 – FY21 (tCO₂e) ^{1 2}



Scope 2 emissions, by region FY19 – FY21 (tCO₂e) ^{1 2}

	Location-Based			Market-Based		
	FY19	FY20	FY21	FY19	FY20	FY21
Asia Pacific	733	667	443	733	667	12
Europe, Middle East and Africa	427	416	268	414	271	2
Latin America and Caribbean	98	81	45	98	81	0
North America	2,245	2,179	1,292	2,245	1,145	75
Total	3,503	3,344	2,048	3,491	2,164	89

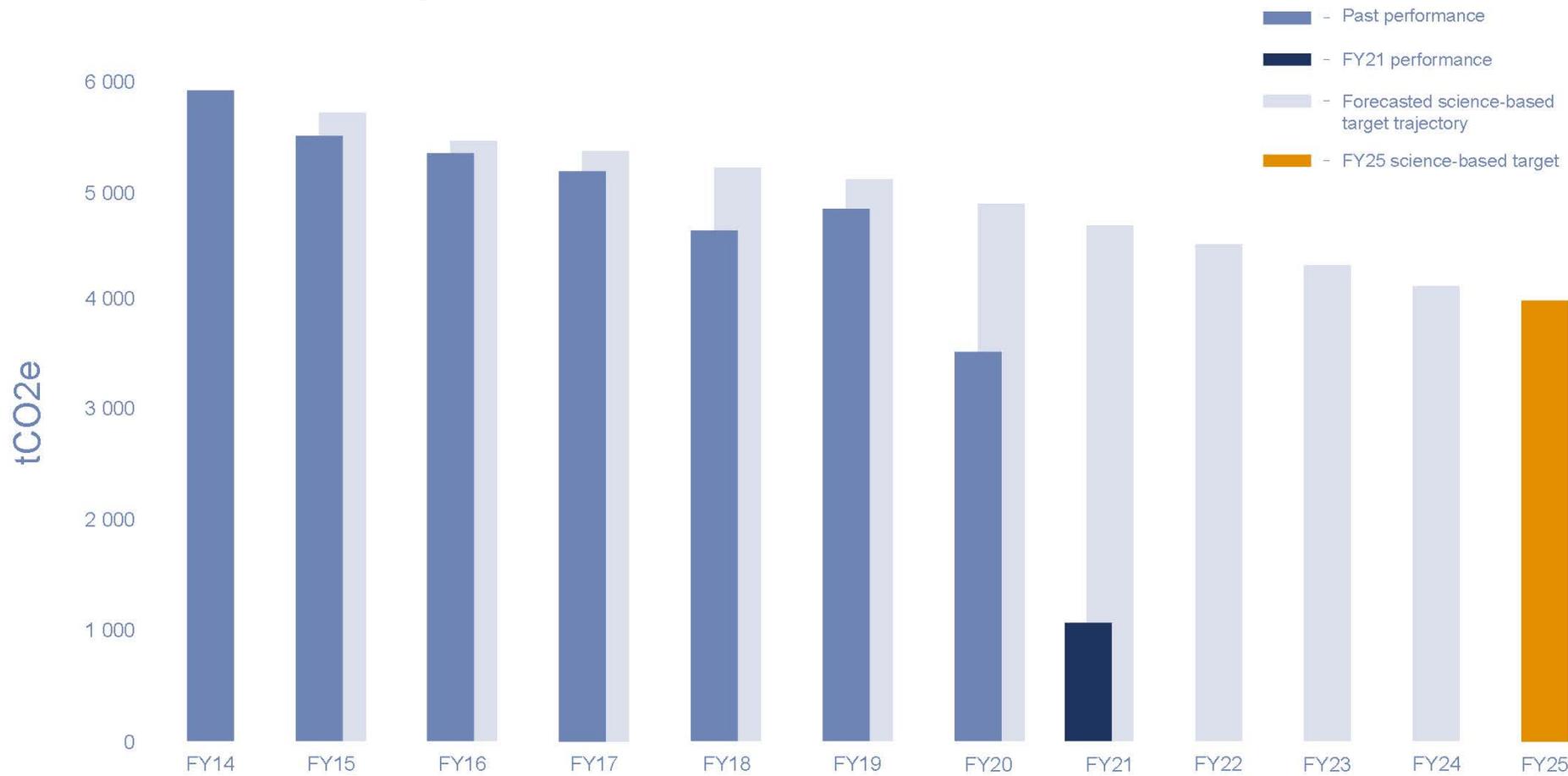
¹ Scope 2 includes indirect emissions from purchased electricity.

² Emissions from Global Businesses and Group are included in the data for the ERM region in which employees' home offices are located.

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Scope 1 & 2 trajectories

SBT Scope 1 & 2 performance (tCO₂e)

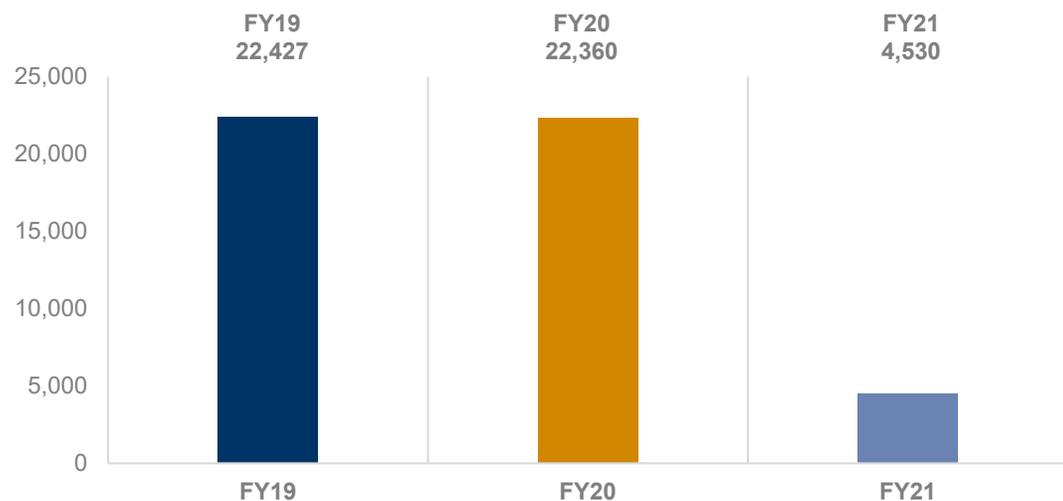


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Scope 3 emissions

GRI 305-3

Scope 3 emissions FY19 – FY21 (tCO₂e) ^{1 2}



Scope 3 emissions, by region FY19 – FY21 (tCO₂e) ^{1 2}

	FY19	FY20	FY21
Asia Pacific	3,288	2,826	1,059
Europe, Middle East and Africa	3,857	3,815	726
Latin America and Caribbean	1,340	1,165	192
North America	12,381	13,313	2,482
Global Businesses	563	503	33
Group	998	738	38
Total	22,427	22,360	4,530

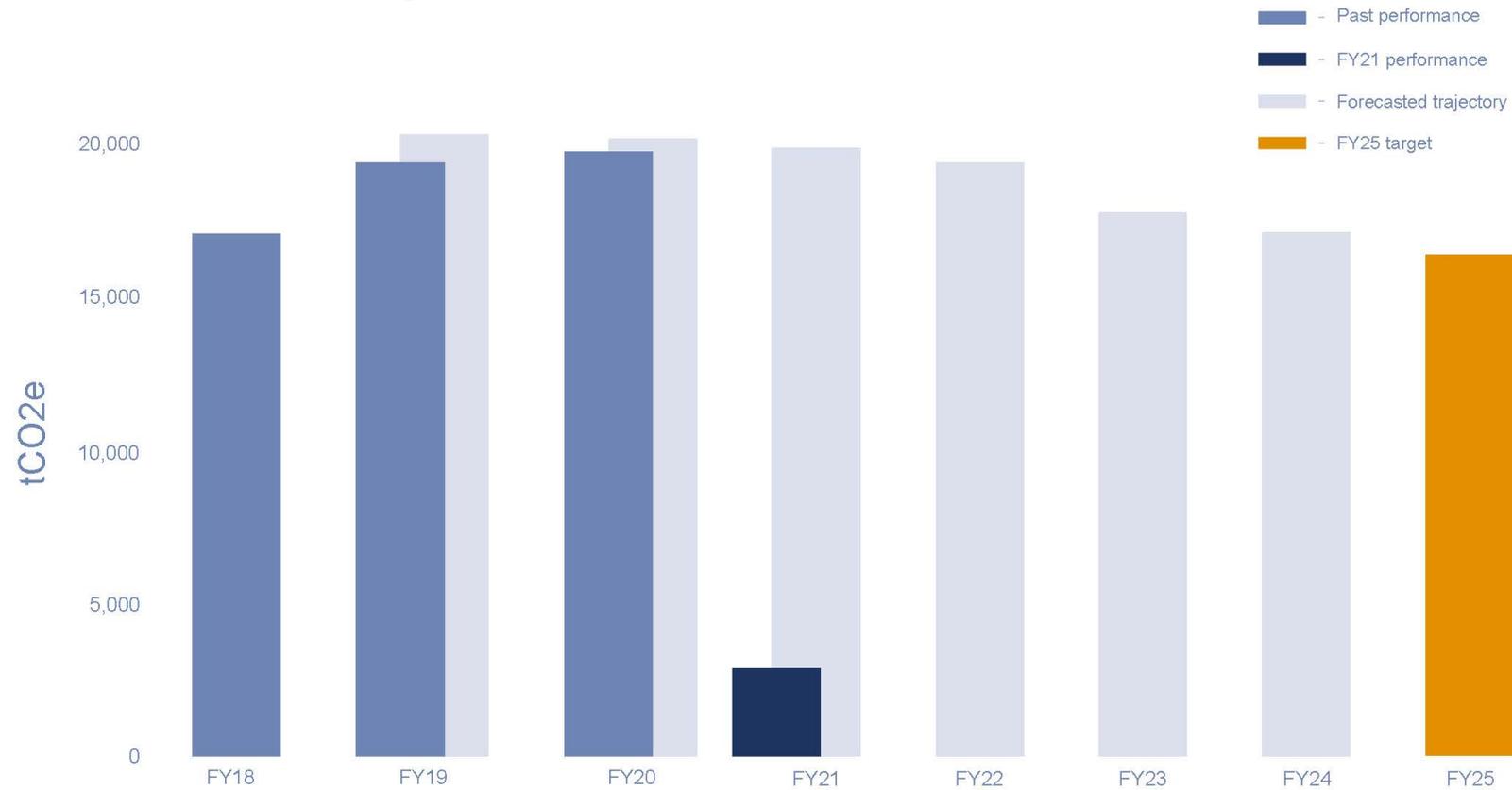
¹ Scope 3 includes other indirect emissions that occur outside ERM (business travel, employee commuting, shared space electricity, and transmission and distribution losses).

² The reduction in Scope 3 emissions in FY21 was caused by significantly less business travel and employee commuting.

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Scope 3 trajectory

SBT Scope 3 performance (tCO₂e) *



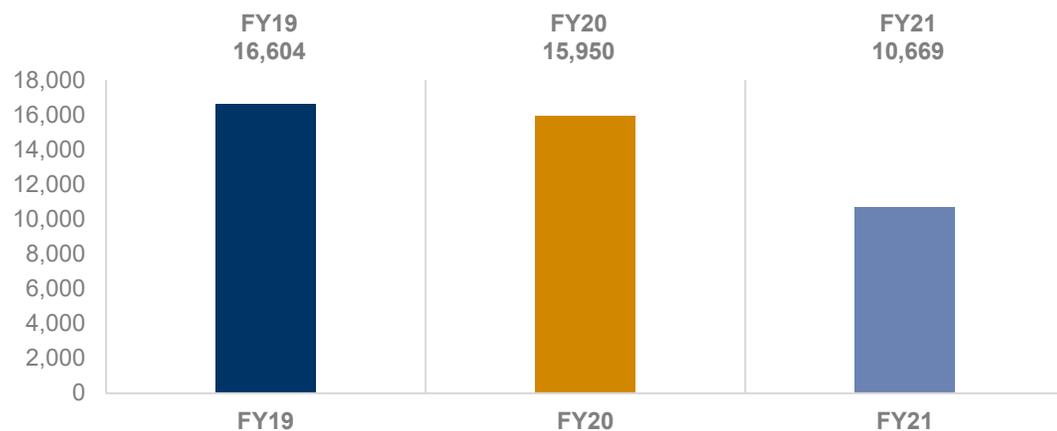
* ERM has set a science-based target for business travel and employee commuting, covering 73% of the total Scope 3 inventory.

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Global office energy use

GRI 302-1, GRI 302-2, GRI-302-4

Global office energy use FY19 – FY21 (MWh) ^{1 2}



Global office energy use, by type FY19 – FY21 (MWh) ^{1 2}

	FY19	FY20	FY21
Office electricity from non-renewable sources	7,649	4,677	22
Electricity from renewable sources	302	3,089	4,924
Fuel consumption	2,954	3,283	2,644
Scope 3 other electricity	5,699	4,901	3,079
Total	16,604	15,950	10,669

¹ Employees from Global Businesses and Group are included in the data for the ERM region in which their home offices are located.

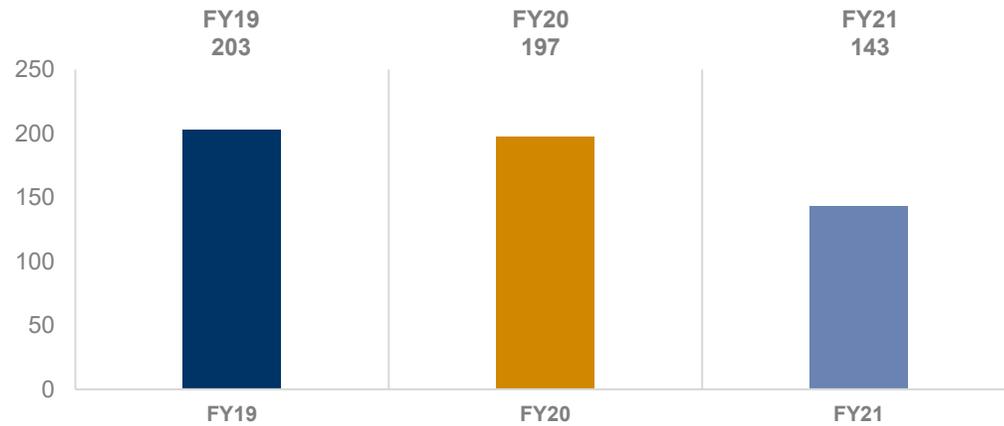
² For reporting purposes, only MWh using the regular method are included and upstream MWh are excluded.

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Global energy use intensity

GRI 302-1, GRI 302-2, GRI-302-4

Global energy use intensity FY19 - FY21 (KWh/m²) *



* Total global energy use normalized by total office floor space.

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References

Data presented here supports the climate risk section of this report. All emissions data presented is expressed as carbon dioxide equivalent (CO₂e) and includes all Kyoto gases and refrigerants. ERM uses the Fifth Assessment Report as a source of global warming potential (GWP) without climate feedback. The detailed reference table can be found below.

All data has been calculated using a market-based approach, unless otherwise stated. For further information on market-based methods, please refer to <http://www.ghgprotocol.org>.

Gas	Activity	Geography	Reference
CO ₂ , CH ₄ , N ₂ O	Passenger car (all sizes and fuel types)	Europe	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO ₂ , CH ₄ , N ₂ O	Passenger car (all sizes and fuel types)	North America and countries outside Europe	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020. and EPA (2020). Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2018. United States Environmental Protection Agency.
CO ₂ , CH ₄ , N ₂ O	Gasoline car	Canada	EC (2021). National Inventory Report. Greenhouse Gas Sources and Sinks in Canada: 1990 - 2019. Environment Canada.
CO ₂ , CH ₄ , N ₂ O	Gasoline and Diesel cars	Australia	Commonwealth of Australia 2020 (Department of the Environment and Energy). National Greenhouse Account Factors (NGA) - Australian National Greenhouse Accounts. October 2020.
CO ₂ , CH ₄ , N ₂ O	Petrol and diesel use	Europe	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO ₂ , CH ₄ , N ₂ O	Gasoline and Diesel use	North America and countries outside Europe	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020.
CO ₂ , CH ₄ , N ₂ O	LPG	South America	GHG Protocol Brazil (2020). Ferramenta GHG Protocol 2020. Versão 2020.V1.2. Programa Brasileiro GHG Protocol. (https://www.ghgprotocolbrasil.com.br/).
CO ₂ , CH ₄ , N ₂ O	Motorcycle	World	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO ₂ , CH ₄ , N ₂ O	Taxi	Europe	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO ₂ , CH ₄ , N ₂ O	Trucks	US and countries outside Europe	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020. and EPA (2020). Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2018. United States Environmental Protection Agency.
CO ₂	Auto-rickshaw	Asia	India GHG Program, India Specific Road Transport Emission Factors (2015).
CO ₂ , CH ₄ , N ₂ O	Bus	Europe	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting..

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References

Gas	Activity	Geography	Reference
CO2, CH4, N2O	Bus	North America and countries outside Europe	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020.
CO2, CH4, N2O	Light rail	World	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO2, CH4, N2O	National rail	Europe	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO2, CH4, N2O	National rail (intercity)	North America and countries outside Europe	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020.
CO2	AVE Train	Spain	RENFE (2017). Informe Anual de Responsabilidad Social, Empresarial y Gobierno Corporativo. (http://www.renfe.com/EN/empresa/RSE/InformesRSEyGobiernoCorporativo.html)
CO2e	TGV train	Europe	SNCF (2018). Information sur la quantité de gaz à effet de serre émise à l'occasion d'une présentation de transport.
CO2e	Thalys train	Europe	Thalys (2016). Thalys Carbon Footprint 2016. (https://www.thalys.com/img/1505743154/pdf/developpement.../bilan-carbone-en.pdf Accessed August 2018).
CO2, CH4, N2O	Eurostar	Europe	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO2, CH4, N2O	Underground	World (except North America)	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO2, CH4, N2O	Transit rail	North America	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020.
CO2, CH4, N2O	Ferry	World	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO2, CH4, N2O	Flights – all hauls and classes	World	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO2, CH4, N2O	District heating (natural gas CHP)	World	IPCC (2006). Revised IPCC Guidelines for National Greenhouse Gas Inventories: Reference Manual. Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge.
CO2, CH4, N2O	District heating (steam)	North America	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020.
CO2	District heating	Germany	AGFW (2017). Liste der CO2-Bescheinigungen nach FW 309-6 nach Städten sortiert.
CO2, CH4, N2O	Electricity (incl. T&D losses)	UK	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.

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References

Gas	Activity	Geography	Reference
CO2, CH4, N2O	Electricity (incl. T&D losses)	US	EPA (2021). eGrid2019. Release : 23/02/2021. (https://www.epa.gov/energy/emissions-generation-resource-integrated-database-egrid). Accessed April 6, 2021).
CO2, CH4, N2O	Electricity (incl. T&D losses)	Canada	EC (2021). National Inventory Report. Greenhouse Gas Sources and Sinks in Canada: 1990 - 2019. Environment Canada.
CO2, CH4, N2O	Electricity (incl. T&D losses)	World (except UK, US, Canada and Australia)	United Nations (2021). UN Statistics Division - Energy Balance Visualizations. (https://unstats.un.org/unsd/energystats/dataPortal/) and IPCC (2006). Revised IPCC Guidelines for National Greenhouse Gas Inventories: Reference Manual. Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge.
CO2e	Electricity (incl. T&D losses)	Australia	Commonwealth of Australia 2020 (Department of the Environment and Energy). National Greenhouse Account Factors (NGA) - Australian National Greenhouse Accounts. October 2020.
CO2e	Electricity residual mix	Europe	AIB (2020). European Residual Mixes 2019. Version 1.0, 29th May 2020. Association of Issuing Bodies.
CO2, CH4, N2O	Natural gas	Canada	EC (2021). National Inventory Report. Greenhouse Gas Sources and Sinks in Canada: 1990 - 2019. Environment Canada.
CO2, CH4, N2O	Natural gas	Europe	Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.
CO2, CH4, N2O	Natural gas	Australia	Commonwealth of Australia 2020 (Department of the Environment and Energy). National Greenhouse Account Factors (NGA) - Australian National Greenhouse Accounts. October 2020.
CO2, CH4, N2O	Natural gas	US	EPA (2020). GHG Emission Factors Hub. Center for Corporate Climate Leadership. March 2020. and EPA (2020). Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2018. United States Environmental Protection Agency.
HCFC123, R11, R12, R401a, HFC134a, R407c, R410a	Refrigerants	World	IPCC (2013). IPCC Fifth Assessment Report: Climate Change 2013. Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge.



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