Abridged

Environmental Statement 2020

Including the Environmental Program until 2023 For the organizations Fraport AG (Fraport parent company), NICE, FCS, GCS and FraGround at Frankfurt Airport



Update of the Environmental Statement 2019 SEPRIES DELTMATES Frant

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Environmental Management at Frankfurt Airport

Since 1999, Fraport AG at Frankfurt Airport has been regularly validated by government accredited and inspected environmental auditors. The basis for this audit is the European regulation "Eco-Management and Audit Scheme" (EMAS). Since 2002, the verification has also been carried out in accordance with the international standard ISO 14001. These audits in conformity with EMAS and ISO 14001 also included Fraport Cargo Services GmbH (FCS) since 2008, NICE Aircraft Services & Support GmbH (NICE) since 2009 and Energy Air GmbH since 2014. Energy Air GmbH is also validated in accordance with the international ISO 50001 standard. New additions to the EMAS network in 2017 include the subsidiary companies FraGround Fraport Ground Services GmbH (FraGround) and GCS Gesellschaft für Cleaning Service mbH & Co. Airport Frankfurt/ Main KG (GCS). The total amount of cleaning products containing hazardous substances employed in the cleaning process amounted to 37,262 kilograms in 2020. This represented an increase of 18%, predominantly due to the increased cleaning measures in the terminal in the context of the pandemic.

Update

In the context of the pandemic, Fraport AG undertook changes to its organizational structure, particularly affecting the designations and tasks of

Additional Environmental Figures

The environmental figures have been presented in the Environmental Statement in accordance with the Global Reporting Initiative (GRI) Performance Indicators Series 300 "Environment", supplemented by some specific indicators for the airport. The present Environmental Statement also inindividual departments. Changes related to the environmental management are shown in the updated organizational chart on page 2.

cludes indicators in accordance with the expanded GRI performance indicators for airports, "Airport Operators Sector Supplement" (AOSS). The current key figures can be seen from page 3 onwards.

Fraport Organizational Chart - Tasks and Functions Relevant to the Environment

Chairman of the Executive Board (VV)	Member of the Executive Board and Executive Director Labor Relations (VA)	Member of the Executive Board and Executive Director Cont- rolling and Finance (VF)	Member of the Executive Board and Executive Director Aviation and Infrastructure (VI)	Member of the Executive Board and Executive Director Retail and Real Estate (VO)
Segment Responsibility	Segment Responsibility	Segment Responsibility	Segment Responsibility	Segment Responsibility
International Activities & Services	Ground Handling		Aviation	Retail & Real Estate
Strategic Business Units	Strategic Business Units	Strategic Business Units	Strategic Business Units	Strategic Business Units
Global Investments and Management (BET)	Ground Services (BVD)		Aviation (AVN)	Retail and Properties (HVM)
	Loading and unloading aircraft Passenger transport Baggage transport Cargo transport Push-back Water supply for aircraft Toilet waste disposal from aircraft		Terminal operations Flight operation systems Traffic management Monitoring of aircraft noise Forest and biotope Environmental impacts (noise and air) Community issues Passive noise abatement Preventive fire protection Emergency management	Operation of miscellaneous buildings Energy supply Energy and meter management
Service Units	Service Units	Service Units	Service Units	Service Units
Airport Expansion South (PAS)		Integrated Facility Management (IFM)	Corporate Infrastructure Management (ZIM)	Information and Telecommunication (IUK)
Construction planning Terminal 3		Technical building management Operation of service workshops Operations management PTS Operational winter service Management of landscaped areas Vehicle engineering Geoinformation Water supply Waste management, remediation Operation of drainage systems Operation of sewage treatment plants Operation of the nitrate removal plant	Construction planning Energetic standards Office for water protection Waste management for construction Compensation area manage- ment and floor waste	Environmental databases
Central Units	Central Units	Central Units	Central Units	Central Units
Corporate Development, Environment and Sustainability (UEW)	Occupational Health and Safety (VA4)	Finance and Investor Relations (FIR)		Legal Affairs and Compliance (RAC)
Coordinator for the Environ- mental Management System	Officer for dangerous goods and radiation protection	Sustainability reporting		Environmental law
Environmental policy and strategy	Human Resources (PSL)	Investment and Project Controlling (IPC)		
Coordination of environmental management	Environmental training	Cost and Profitability Management (KEC)		
Environmental indicators Environmental reporting Environmental fund		Accounting (REW)		
Corporate Communications (UKM)	Internal Auditing (REV)	Central Purchasing, Construction Contracts (ZEB)		
Environmental communications		Environmental procurement		

Environmental Figures

Frankfurt Airport, Fraport parent company, FCS, NICE, GCS, FraGround

Aspects in accordance with the Global Reporting Initiative (GRI) performance indicators "Environment" and "Airport Operators Sector Supplement (AOSS)", subset "environment". As a result of the pandemic, the numbers in 2020 are not comparable with previous developments.

Values partially rounded; minor deviations may occur.

Employees	Unit	Comment	2017	2018	2019	2020
Fraport parent company	Number	1	10,747	10,595	10,480	10,018
FCS	Number	1	503	515	535	538
NICE	Number	1	43	44	45	43
FraGround	Number	1	3,331	3,744	3,963	2,618
GCS	Number	1	689	729	714	636

¹ Employees = Permanent employees + temporary staff (school children, students, interns, marginally employed and trainees) + apprentices, exempted employees, status December of every year.

AO1 – Passengers						
Traffic volume	Unit	Comment	2017	2018	2019	2020
Passengers	Number of passengers		64,505,151	69,510,269	70,556,072	18,770,998

02 – Aircraft movements									
Traffic volume	Unit	Comment	2017	2018	2019	2020			
Frankfurt Airport (FRA)									
Traffic unit (without transit)	TU	1, 2	86,354,959	91,179,071	91,372,384	37,862,509			
Aircraft movements (landing + take-off)	Number of movements		475,537	512,115	513,912	212,235			
Therein at night	Number of movements	3	34,192	37,284	35,814	12,925			

¹ = A traffic unit is equivalent to one passenger with baggage or 100 kg of airfreight or airmail.

² Commercial and non-commercial traffic.

³ Nighttime: 22:00 to 06:00

AO3 – Cargovolume						
Traffic volume	Unit	Comment	2017	2018	2019	2020
Airfreight	Т		2,143,622	2,176,387	2,041,775	1,895,074
Airmail	T		85,348	89,795	86,701	57,554
Therein FCS						
Cargo-Volume						
Airfreight	Т		735,524	678,094	633,599	665,813
Traffic units	ти	1	7,355,240	6,780,940	6,335,990	6,658,130

¹ TU = A traffic unit is equivalent to one passenger with baggage or 100 kg of airfreight or airmail.

Cith Joc.1ValueComment20172018201920192019Decet ancy consumption1.2.3Transical Algorst AncorseAlle arey fourter18.6.481.6.081.2.384.92.27Meturd ganmilion KW32.6.402.22.352.32.307.22.23Lignafed pertokum gan (LCO)milion18.441.718.437.00Lignafed pertokum gan (LCO)milion32.2.132.3.292.2.62Lignafed pertokum gan (LCO)milion1.3.632.7.132.9.292.6.62Lignafed pertokum gan (LCO)milion1.5.819.7.118.439.8.1Heating allmilion (Milion3.6.2.141.0.140.1291.3.53Lignafed pertokum gan (LCO)milion (Milion5.6.13.6.11.0.140.129Heating allmilion (Milion1.5.410.4.151.3.511.0.10Earchard (H.A1)milion (Milion5.6.15.6.13.7.11.3.511.0.10Keanang (H.A1)milion (Milion1.3.411.2.51.3.511.0.101.0.10Keanang (H.A1)milion (Milion1.3.411.2.51.3.511.3.511.3.511.3.51Hauting ganmilion (Milion1.3.411.2.51.3.511.3.5	GRI 302: Energy						
bits i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.	GRI 302-1	Unit	Comment	2017	2018	2019	2020
pandbart speet 1, 2, 3 Machard diret conversevble energy source 1 82.64 815.62 872.83 809.27 Matanal gan 11 39.07 81.09 81.09 809.27 Matanal gan 11 72.64 815.09 82.05 72.255 Lapolied pertokum gan (Kr) 71 8.44 7.17 8.75 72.00 Lapolied pertokum gan (Kr) 71 8.44 7.17 8.75 72.00 Lapolied pertokum gan (Kr) 71 8.44 7.17 8.75 72.00 Lapolied pertokum gan (Kr) 71 8.44 7.17 8.75 72.01 Lapolied pertokum gan (Kr) 71 8.44 741 72.95 72.01 Lapolied field for the set of	Direct energy consumption						
Pachada diaci non-servable energy source I B28,4 B16,02 P16,02 P16	Frankfurt Airport		1, 2, 3				
Induciona II 93.07 81.09 81.09 81.09 81.09 81.09 81.09 81.09 81.09 81.29 82.22 55 Lapichel petrokum gas (IPC) II 8.44 7.77 8.73 7.00 Vacing gai (IPC) II 8.49 7.75 8.73 7.00 Menting al IIII (IPC) IIII (IPC) 8.44 7.77 8.74 7.00 Menting al IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Purchased direct non-renewable energy sources	TJ		826.76	816.02	812.85	499.27
Induced gam million kWn 3 26.410 22.23 22.28	Natural gas	TJ		95.07	81.09	85.75	80.12
Lighter periodeum gas (DO) Ti 8.44 7.17 8.73 7.07 Versiting of Ti 88.9 91.7 88.9 91.7 88.9 91.7 88.9 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.62.0 22.35 2.66.0 1.53.0 1.33 1.15.0 4.83.1 1.0 6.0 1.4 1.83 1.0 2.66.0 2.33 1.35 1.35 1.25 6.0.134 0.014 0.033 0.03 0.043 0.04	Natural gas	million kWh	3	26.410	22.525	23.820	22.255
Induction gas (IPC) m ⁴ 1 135 107 158 107 Hearing ol II 98.9 98.1 98.0 80.7 Dead TI 52.78 25.95 52.62 22.95 Dead TI 52.13 25.95 52.62 22.95 Dead million iters 15.804 16.001 15.301 23.3 Gasoline TI 6 4.63 5.07 3.23 1.16 Kerosene ([c4 A]) million iters 6 0.114 0.146 0.091 0.019 Memoring transmost term messeable energy source T 7 49.496 50.52 50.54 70.74 43.8 Valuering an million iters 1 5.4 4.125 1.305 1.318 1.311 1.318 1.321 1.318 1.321 1.318 1.321 1.318 1.321 1.318 1.321 1.318 1.321 1.318 1.321 1.318 1.321 1.318 1.321 1.318 <	Liquefied petroleum gas (LPG)	TJ		8.44	7.17	8.75	7.07
Intensing all II 98.9 91.7 96.1 80.7 Diversing all million liters 1 27.18 2.258 7.42 Diversing all TI 562.6 569.6 558.9 227.4 Diversing all TI 57.1 59.4 66.0 18.3 1.01 8.13.0 Casadire TI 6 4.65 50.7 3.23 1.16 Reversen ((CrA1) TI 6 4.64 50.7 3.23 1.16 Reversen ((CrA1) TI 6 4.64 50.6.2 50.6.4 7.4 7.8 Parcin Report Departs company TI 5.6 4.5 4.7 7.4 3.8 Modered gart milion liters 2.35 1.305 1.218 1.225 1.305 1.218 Liquefield particleum gar (LRC) TI 5.4 4.5 4.7 4.83 Motered gart million liters 2.35 2.48 2.512 1.305 1.218 <td< td=""><td>Liquefied petroleum gas (LPG)</td><td>m³</td><td>3</td><td>355</td><td>301</td><td>368</td><td>297</td></td<>	Liquefied petroleum gas (LPG)	m ³	3	355	301	368	297
Intensition iters 3 2.738 2.535 2.642 2.236 Disel II 56.26 55.89 55.89 25.92 2.74 Disel million iters 15.804 16.001 15.701 8.353 Gasoline 71 57.1 59.4 60.1 32.4 Keacare ([c4.1) million iters 6 4.45 5.07 3.31 1.14 Keacare ([c4.1) million iters 6 0.14 0.146 0.023 0.039 Themic Report parent company T 5 49.458 50.52 50.459 729.74 Makind gn 71 5 49.458 50.52 50.459 729.74 Makind gn million iters 10 5.3 1.035 1.035 1.035 Upplied petroleung of (LNO) 71 4.4 728 72.038 72.01 Making gn 71 4.5.2 8.1.7 73.8 72.11 Upplied petroleung of (LNO) 71 9.4.2	Heating oil	TJ		98.9	93.7	96.1	80.7
Decel TI 592.6 596.9 538.9 292.4 Decel million iters 15.804 16.001 15.701 8.333 Gaoline TI 51.71 59.4 60.01 12.701 8.333 Gaoline million iters 1.76 1.83 1.85 1.01 Kerasere (jct A1) TI 6 4.65 5.07 3.23 1.13 Machand gao TI 2 494.96 505.62 504.59 292.87 Matural gao TI 2 494.96 505.62 504.59 292.87 Matural gao million NWh 1.554 1.735 1.735 1.735 Matural gao million NWh 1.555 301 368 297 Liquefied petroleum gas (JKC) million iters 2.335 2.430 2.518 2.111 Decel million iters 4.342 361.6 356.9 187.9 Decel million iters 4.243 2.516 2.111 Dec	Heating oil	million liters	3	2.738	2.595	2.662	2.236
Detect million iters 15.804 16.001 15.701 93.33 Gooline million iters 1.76 1.43 1.85 1.01 Karotare (jet Al.) million iters 6 0.134 0.146 0.030 0.039 Deres in figuer parent campary 1.26 1.34 0.146 0.033 0.031 Matchased differ conversewable energy source 1 2 494.98 505.62 504.59 292.87 Matchased differ conversewable energy source 1 8.4 7.27 8.8 7.07 Uppendic petroleum gas (IKG) 11 8.4 7.23 8.8 7.07 Uppendic petroleum gas (IKG) 11 8.4 7.09 7.62 8.8 7.07 Desel 1 3.33 3.01 2.635 2.63.9 1.818 1.116 Desel 1 4 9.04 1.01.7 4.14 2.18 7.07 1.00.25 2.238 1.211 1.144 2.18 1.116 <td>Diesel</td> <td>TJ</td> <td></td> <td>562.6</td> <td>569.6</td> <td>558.9</td> <td>297.4</td>	Diesel	TJ		562.6	569.6	558.9	297.4
Gaseline II S7.1 S9.4 60.1 37.6 Gaseline million iters 1.76 1.83 1.85 1.00 Kerenerer (jet A1) II 6 4.63 S.07 1.31 1.14 Kerenerer (jet A1) million iters 6 0.134 0.146 0.039 Detects fraget parent company III 2 494.946 505.62 504.59 297.87 Meducal gas III 5.6 4.7 4.83 Neticel gas 1.218	Diesel	million liters		15.804	16.001	15.701	8.353
answine million itlers 1.76 1.81 1.85 1.01 ferestene (gr A1) Ti 6 4.65 5.07 3.23 1.36 Kensene (gr A1) million litters 6 0.134 0.146 0.039 0.039 Territ Infraget parent company T 2 494.96 505.52 504.59 2927.67 Natural gas million RWb 1.554 1.305 1.318 1.318 liquefied peroleum gas (LPG) T 8.4 7.2 8.8 7.07 liquefied peroleum gas (LPG) T 8.4 7.2 8.8 7.09 liquefied peroleum gas (LPG) T 8.4 7.2 8.8 7.07 liquefied peroleum gas (LPG) T 8.4 9.49 5.05.62 5.04.59 8.79 Diesel T 3.53 3.61.61 3.56.9 1.819 Diesel T 4.01 4.1.1 4.1.23 1.41.62 2.18 Gasoline T 6 0.066<	Gasoline	TJ		57.1	59.4	60.1	32.6
Interner (et A1) TI 6 4.43 5.07 3.23 1.36 Kensene (et A1) million liters 6 0.134 0.146 0.093 0.033 Durchased ditect non-cenevable energy sources TI 2 494.96 505.42 504.53 272.67 Natural gas TI 5.6 4.5 4.7 4.38 Natural gas million kWh 1.534 1.235 1.305 1.21 Liquefied petroleum gas (LPC) mt 355 301 368 297 Heating oll TI 345.2 2430 2.518 2.111 Dised TI 440.1 42.1 41.8 21.8 Gasoline TI 6 2.3 1.4 0.52 Gasoline TI 6 2.3 1.4 0.52 Gasoline TI 6 2.3 2.3 1.4 0.52 Gasoline TI 6 0.066 0.072 0.041 0.015	Gasoline	million liters		1.76	1.83	1.85	1.01
Kensene (jet A1) million liters 6 0.134 0.146 0.093 0.039 Decide Inducet company	Kerosene (Jet A1)	TJ	6	4.65	5.07	3.23	1.36
Intern fragori parent sampary Purchased direct non-energial energy sources I 2 494.96 505.62 504.99 297.87 Natural gas IT 5.6 4.5 4.7 4.38 Natural gas million kWh 1.534 1.255 1.305 1.21 Liquefed petroloum gat (IFG) IT 8.4 7.2 8.8 7.07 Liquefed petroloum gat (IFG) m ³ 3.55 3.01 3.68 3.99 Heating ol IT 9.35 2.410 2.518 2.111 Diesel million lites 2.363 2.430 2.518 2.111 Diesel million lites 4 9.696 10.157 10.026 5.278 Gasoline IT 6 2.33 2.5 1.4 0.52 Gasoline IT 6 0.066 0.072 0.014 0.012 Iola energy cources % 100 100 100 100 100 Tola energy courses % 10	Kerosene (Jet A1)	million liters	6	0.134	0.146	0.093	0.039
Purchased direct non-renewable energy sources T 2 494.96 505.62 504.59 292.87 Natural gos TI 5.6 4.3 4.7 4.80 Juqueled petroloum gos (LCO) TI 8.4 7.22 8.8 7.07 Juqueled petroloum gos (LCO) TI 8.4 7.2 8.8 7.07 Juqueled petroloum gos (LCO) TI 8.4 7.2 8.8 7.09 Juqueled petroloum gos (LCO) TI 8.4 7.2 8.8 7.09 Juqueled petroloum gos (LCO) TI 9.23 8.7 90.9 7.62 Heating all TI 9.43 8.7 90.9 7.62 Montand gos TI 4.01 4.21 41.8 2.18 Disci TI 4.01 4.21 41.8 2.28 Gasoline TI 6 0.23 2.5 1.4 0.25 Kerosene (jet Al) TI 6 2.3 2.5 1.4 4.1 <tl>4.1</tl>	Therein Fraport parent company						
Natural gas T 5.6 4.5 4.7 4.38 Natural gas million kWh 1.534 1.235 1.305 1.21 Liquefied petroleum gas (IPC) T 8.4 7.2 8.8 7.07 Liquefied petroleum gas (IPC) m ³ 355 301 368 207 Heating old T 9.3 8.7.7 9.09 7.6.2 Heating old million liters 2.385 2.430 2.518 2.111 Diesel million liters 4 9.696 10.157 10.026 5.278 Gasoline TI 6 2.3 2.5 1.40 0.5 2.78 Ical energy courses 4 1.239 1.292 0.67 4.66 2.3 2.5 1.4 0.52 Ical energy courses % 6 0.066 0.072 0.041 0.010 100 100 100 100 100 100 100 100 100 100 100 100 </td <td>Purchased direct non-renewable energy sources</td> <td>TI</td> <td>2</td> <td>494.96</td> <td>505.62</td> <td>504.59</td> <td>297.87</td>	Purchased direct non-renewable energy sources	TI	2	494.96	505.62	504.59	297.87
Natural gas million kWh 1.554 1.255 1.305 1.218 liquéted petroleum gas (IPC) T 8.4 7.2 8.8 7.07 liquéted petroleum gas (IPC) m* 355 301 368 297 Heoting oil T 93.3 87.7 90.9 76.2 Heoting oil TI 93.452 361.6 356.9 187.9 Dised million liters 4 9.696 10.157 10.026 52.78 Gasoline TI 40.1 42.19 1.292 0.67 Kerestene (Jet AI) million liters 6 0.66 0.02 0.041 0.015 Kerestene (Jet AI) million liters 6 0.66 0.02 0.041 0.015 1.022 0.67 Kerestene (Jet AI) million liters 6 0.66 0.02 0.041 0.01 0.01 100 100 100 100 100 100 100 100 100 100 100 100	Natural gas			5.6	4.5	4.7	4.38
Liquefied petroleum gas (LPC) T B.4 T.2 R.8 T.0 Liquefied petroleum gas (LPC) m ¹ 355 301 368 299 Heating al T 93.3 87.7 90.9 76.2 Heating al million liters 2.585 2.430 2.518 2.111 Diesel T 43.52 361.6 356.9 187.9 Diesel million liters 4 9.666 10.157 10.026 5.278 Gascline T 40.1 42.1 41.8 21.8 2.5 1.4 0.52 Gascline T 6 2.3 2.5 1.4 0.52 Kerosene (Jet Al) million liters 6 0.066 0.072 0.011 0.010 000 100	Natural gas	million kWh		1.554	1.255	1.305	1.218
Induction part (IPC) m* 355 301 368 227 Heating oil Ti 93.3 87.7 90.9 76.2 Heating oil million liters 2.585 2.430 2.518 2.111 Dieel Ti 345.2 361.6 335.9 187.9 Dieel million liters 4 9.696 101.57 10.026 5.278 Gasoline Ti 40.1 42.1 41.8 21.8 2.114 0.527 Kersten (jet A1) Ti 6 2.3 2.5 1.4 0.527 Kersten (jet A1) Ti 6 2.3 2.5 1.4 0.527 Kersten (jet A1) Ti 6 2.3 2.5 1.4 0.52 Kersten (jet A1) Ti 6.52 5.00 4.55 5.79 Diesel Ti 6.52 5.00 4.59 5.71 Diesel Ti 6.52 5.00 4.59 5.71 <t< td=""><td>Liquefied petroleum aas (LPG)</td><td></td><td></td><td>8.4</td><td>7.2</td><td>8.8</td><td>7.07</td></t<>	Liquefied petroleum aas (LPG)			8.4	7.2	8.8	7.07
Intering of Constraints The second seco	Liquefied petroleum gas (LPG)	m ³		355	301	368	297
Instantion 1 2.2.5 0.5.7 2.0.5 0.0.5 Heating oil million liters 2.2.55 2.4.30 2.518 2.1.11 Disel TI 345.2 351.6 355.9 187.9 Gasoline TI 40.1 42.1 41.8 21.85 Gasoline TI 40.1 42.1 41.8 21.85 Gasoline TI 6 2.3 2.5 1.4 0.055 Kenssene (jet A1) TI 6 2.3 2.5 1.4 0.015 Total energy consumption Enerwobe energy sources % <1	Heating oil			93.3	87.7	90.9	76.2
Internation Internation <thinternation< th=""> <thinternation< th=""></thinternation<></thinternation<>	Heating oil	nillion liters		2 585	2 430	2 518	2 111
Octo 1,100 1100 1100 1100 1000 <t< td=""><td></td><td>TI</td><td></td><td>345.2</td><td>361.6</td><td>356.9</td><td>187.9</td></t<>		TI		345.2	361.6	356.9	187.9
Deter Initial interimentation P Joint 10, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	Diasal	nillion liters	Λ	9 696	10 157	10.026	5 278
Construct IT IT< IT IT< IT< IT< <thit< th=""> IT< IT<</thit<>	Casoline	TI	7	40.1	42.1	41.8	21.8
Datame Hindin Mets Image Hindin Mets Image Hindin Mets Image Hindin Mets Image Hindin Mets	Gasoline Casoline	nj	1	1 220	1 200	1 202	0.67
Actional (jet N/) i) 0 2.3 2.3 1.4 0.32 Reressen (jet A)) million liters 6 0.066 0.072 0.041 0.015 Total energy consumption	Karosana (lat A1)		4	2.2	2.5	1.2.92	0.07
Technick (jet N/) Initial anergy consumption Renewable energy sources % 100 100 100 Non-renewable energy sources % 100 100 100 Interin FCS 6.52 5.00 4.95 5.79 Diesel TI 6.67 4.60 4.59 5.41 Diesel TI 0.45 0.129 0.129 0.129 0.129 Casoline TI 0.45 0.40 0.37 0.38 Gasoline Million liters 0.014 0.012 0.011 0.011 Total energy consurption TI 16.35 13.82 14.47 7.86 Diesel TI 16.30 13.74 14.39 7.82 Diesel TI </td <td>Karosana (lat A1)</td> <td>nillion liters</td> <td>6</td> <td>0.066</td> <td>0.072</td> <td>0.041</td> <td>0.52</td>	Karosana (lat A1)	nillion liters	6	0.066	0.072	0.041	0.52
Name respy consumption <td>Total anaray consumption</td> <td>minori inters</td> <td>0</td> <td>0.000</td> <td>0.072</td> <td>0.041</td> <td>0.015</td>	Total anaray consumption	minori inters	0	0.000	0.072	0.041	0.015
Netice field y sources 30 51 51 51 51 51 Non-renewable energy sources 71 6.52 5.00 4.95 5.79 Diesel 71 6.67 4.60 4.59 5.79 Diesel 71 6.67 4.60 4.59 5.79 Diesel 71 0.170 0.129 0.129 0.129 0.132 Gasoline 71 0.45 0.40 0.37 0.38 Gasoline million liters 0.014 0.012 0.011 0.011 Total energy consumption	Panawahla anaray sources	06		-1		-1	~1
Non-relevable energy sources 10 100<	Non renewable energy sources	90		100	100	100	100
Internet ACS Image of the second	Therein ECS	<i>%0</i>		100	100	100	100
Part Note and Construction of the part of the p	Purchased direct non-renovable energy sources			6.52	5.00	4.05	5 70
Dissi 1j 0.07 4.00 4.35 3.41 Dissi milion liters 0.170 0.129 0.129 0.132 Gasoline T 0.45 0.40 0.37 0.38 Gasoline million liters 0.014 0.012 0.011 0.011 Total energy consumption 0 <	Purchased direct non-renewable energy sources	1) TI		6.32	3.00	4.93	5./9
Dissi Initial nets 0.179 0.123 0.123 0.137 0.133 Gasoline TJ 0.45 0.40 0.37 0.38 Gasoline million liters 0.014 0.012 0.011 0.011 Total energy sources % 0 0 0 0 0 Non-renewable energy sources % 100 100 100 100 100 Purchased direct non-renewable energy sources TJ 16.35 13.82 14.47 7.86 Disel TJ 16.30 13.74 14.39 7.82 Disel TJ 16.30 13.74 14.39 7.82 Disel TJ 0.05 0.07 0.08 0.04 Gasoline million liters 5 0.458 0.366 0.404 0.220 Gasoline TJ 0.05 0.07 0.08 0.04 Casoline TJ 0.02 0.002 0.01 0 Purchosed dir	Diesel	IJ		0.170	4.60	4.39	0.152
Gasoline II 0.43 0.40 0.33 0.38 Gasoline million liters 0.014 0.012 0.011 0.011 Total energy consumption Renewable energy sources % 0 0 0 0 Non-renewable energy sources % 100 100 100 100 Iterate in NICE Number of the inters 16.35 13.82 14.47 7.86 Diesel TI 16.35 13.82 14.47 7.86 Diesel TI 16.35 0.07 0.08 0.04 Gasoline TI 0.05 0.07 0.08 0.04 Gasoline TI 0.05 0.07 0.08 0.04 Gasoline million liters 0.002 0.002 0.001 0.001 Total energy consumption Non-renewable energy sources % 0 0 0 0 Renewable energy sources % 0 0 0 0 0 0				0.170	0.129	0.129	0.132
Casaline Initian inters 0.014 0.012 0.011 0.011 Total energy consumption Renewable energy sources % 0 </td <td>Gasoline</td> <td>1) </td> <td></td> <td>0.43</td> <td>0.40</td> <td>0.37</td> <td>0.38</td>	Gasoline	1) 		0.43	0.40	0.37	0.38
Internet program Internet program<		million illers		0.014	0.012	0.011	0.011
Renewable energy sources % 0 <td></td> <td>0/</td> <td></td> <td></td> <td></td> <td></td> <td>0</td>		0/					0
Non-renewable energy sources % 100 100 100 100 Inerein NICE Purchased direct non-renewable energy sources TJ 16.35 13.82 14.47 7.86 Diesel TJ 16.30 13.74 14.39 7.82 Diesel million liters 5 0.458 0.386 0.404 0.220 Gasoline TJ 0.05 0.07 0.08 0.04 Gasoline TJ 0.05 0.07 0.08 0.04 Gasoline million liters 0.002 0.002 0.001 0.001 Total energy consumption Renewable energy sources % 0 0 0 0 Non-renewable energy sources % 100 100 100 100 100 Purchased direct non-renewable energy sources TJ 0.27 0.22 0.23 0.13 Diesel TJ 0.27 0.22 0.23 0.13 0.05 Diesel TJ 0.12 0	Renewable energy sources	%		100	100	100	100
Parchased direct non-renewable energy sources T 16.35 13.82 14.47 7.86 Diesel T 16.30 13.74 14.39 7.82 Diesel million liters 5 0.458 0.386 0.404 0.220 Gasoline T 0.05 0.07 0.08 0.04 Gasoline million liters 0.002 0.002 0.001 0.001 Total energy consumption Renewable energy sources % 0 0 0 0 Non-renewable energy sources % 100 100 100 100 100 Diesel T 0.40 0.37 0.36 0.19 Diesel T 0.27 0.22 0.23 0.13 Diesel T 0.27 0.22 0.23 0.13 Diesel T 0.12 0.14 0.13 0.05 Gasoline T 0.12 0.14 0.13 0.05 Gasoline T 0.12 0.14 0.13 0.05 Gasoline m	Non-teriewable energy sources	%		100	100	100	100
Purchased airect non-renewable energy sources I 16.35 13.82 14.47 7.86 Diesel TJ 16.30 13.74 14.39 7.85 Diesel million liters 5 0.458 0.386 0.404 0.220 Gasoline TJ 0.05 0.07 0.08 0.04 Gasoline million liters 0.002 0.002 0.001 0.001 Total energy consumption Renewable energy sources % 0 0 0 0 Non-renewable energy sources % 100 100 100 100 100 Diesel TJ 0.40 0.37 0.36 0.19 Diesel TJ 0.27 0.22 0.23 0.13 Diesel TJ 0.12 0.14 0.13 0.05 Gasoline	Inerein NICE			16.25	12.02	14.47	7.07
Diesel IJ 10.30 13.74 14.39 7.82 Diesel million liters 5 0.458 0.386 0.404 0.220 Gasoline TJ 0.05 0.07 0.08 0.04 Gasoline TJ 0.05 0.07 0.08 0.04 Gasoline million liters 0.002 0.002 0.001 0.001 Total energy consumption 0	Purchasea airect non-renewable energy sources			16.35	13.82	14.4/	7.86
Diesel million liters S 0.438 0.386 0.404 0.220 Gasoline TJ 0.05 0.07 0.08 0.04 Gasoline million liters 0.002 0.002 0.001 0.001 Total energy consumption Renewable energy sources % 0 0 0 0 Non-renewable energy sources % 100 100 100 100 Therein FraGround 0.40 0.37 0.36 0.19 Diesel TJ 0.27 0.22 0.23 0.13 Diesel TJ 0.12 0.14 0.13 0.05 Gasoline TJ 0.12 0.14 0.13 0.05 Gasoline TJ 0.12 0.14 0.13 0.05 Gasoline Million liters 4 0.004 0.004 0.001 Total energy consumption Million liters 4 0.004 0.004 0.001 Total energy sour	Diesel			16.30	13.74	14.39	7.82
Casoline IJ 0.05 0.07 0.08 0.04 Gasoline 0.002 0.002 0.001 0.004 0.004 0.004 0.004 0.004 0.001	Diesel	million liters	5	0.458	0.386	0.404	0.220
Casoline million liters 0.002 0.002 0.001 0.001 Total energy consumption Renewable energy sources % 0 </td <td>Gasoline</td> <td></td> <td></td> <td>0.03</td> <td>0.07</td> <td>0.08</td> <td>0.04</td>	Gasoline			0.03	0.07	0.08	0.04
Total energy consumption Renewable energy sources % 0	Gasoline	million liters		0.002	0.002	0.001	0.001
Renewable energy sources % 0 <td>Iotal energy consumption</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Iotal energy consumption						
Non-renewable energy sources % 100 </td <td>Renewable energy sources</td> <td><u>%</u></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Renewable energy sources	<u>%</u>		0	0	0	0
Diesel TJ 0.40 0.37 0.36 0.19 0.19 0.27 0.22 0.23 0.13 0.004 0.006 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.001	Non-renewable energy sources	%	· · · · · · · · · · · · · · · · · · ·	100	100	100	100
Purchased direct non-renewable energy sources TJ 0.40 0.37 0.36 0.19 Diesel TJ 0.27 0.22 0.23 0.13 Diesel million liters 4 0.008 0.006 0.004 Gasoline TJ 0.12 0.14 0.13 0.05 Gasoline million liters 4 0.004 0.004 0.004 Total energy consumption Renewable energy sources % 0 0 0 Non-renewable energy sources % 100 100 100 100	Therein FraGround						
Diesel TJ 0.27 0.22 0.23 0.13 Diesel million liters 4 0.008 0.006 0.004 0.004 Gasoline TJ 0.12 0.14 0.13 0.05 Gasoline million liters 4 0.004 0.004 0.004 0.001 Gasoline million liters 4 0.004 0.004 0.001 0.001 Total energy consumption Renewable energy sources % 0	Purchased direct non-renewable energy sources	TJ		0.40	0.37	0.36	0.19
Diesel million liters 4 0.008 0.006 0.006 0.004 Gasoline TJ 0.12 0.14 0.13 0.05 Gasoline million liters 4 0.004 0.004 0.004 Total energy consumption Renewable energy sources % 0 0 0 0 Non-renewable energy sources % 100 100 100 100	Diesel	<u>ТЈ</u>		0.27	0.22	0.23	0.13
Gasoline TJ 0.12 0.14 0.13 0.05 Gasoline million liters 4 0.004 0.004 0.004 0.001 Total energy consumption Renewable energy sources % 0<	Diesel	million liters	4	0.008	0.006	0.006	0.004
Gasolinemillion liters40.0040.0040.0040.001Total energy consumptionRenewable energy sources%0000Non-renewable energy sources%100100100100	Gasoline	TJ		0.12	0.14	0.13	0.05
Total energy consumptionRenewable energy sources%000Non-renewable energy sources%100100100	Gasoline	million liters	4	0.004	0.004	0.004	0.001
Renewable energy sources%000Non-renewable energy sources%100100100	Total energy consumption						
Non-renewable energy sources % 100 100 100 100	Renewable energy sources	%		0	0	0	0
	Non-renewable energy sources	%		100	100	100	100

GRI 302: Energy						
GRI 302-1	Unit	Comment	2017	2018	2019	2020
Direct energy consumption						
Therein GCS						
Purchased direct non-renewable energy sources	TJ		2.08	2.05	1.79	1.19
Diesel	TJ		1.62	1.52	1.28	1.19
Diesel	million liters	4	0.046	0.043	0.036	0.033
Gasoline	TJ		0.46	0.53	0.51	0.54
Gasoline	million liters	4	0.014	0.016	0.016	0.015
Total energy consumption				·		
Renewable energy sources	%		0	0	0	0
Non-renewable energy sources	%		100	100	100	100

¹ All companies on the composite owned land of Frankfurt Airport (Fraport parent company, subsidiaries of Fraport AG, more than 500 third parties) to the extent data are available.

² All data including technical losses, as far as known.

³ Consumption of natural gas by third parties based on information that cannot be verified.

⁴ The fuel consumption for private use of company cars is not taken into account.

⁵ The level of consumption depends on the number of deicing operations (see indicator "Number of deiced aircraft" in the category traffic volume).

⁶ Kerosene consumption of air start units.

TJ = Terajoule

GRI 302: Energy						
GRI 302-1	Unit	Comment	2017	2018	2019	2020
Indirect energy consumption						
Frankfurt Airport		1. 2				
Purchased energy	TJ		4,072.1	3,954.7	3,749.3	3,177.2
Electricity	TJ		2,106.9	2,083.0	2,026.8	1,656.7
Electricity	million kWh		585.256	578.603	563.003	460.201
District heating	TJ		1,464.6	1,329.7	1,246.8	1,149.8
District heating	million kWh		406.834	369.358	346.345	319.397
District cooling	TJ		500.6	542.0	475.6	370.6
District cooling	million kWh		139.060	150.565	132.123	102.946
Indirect energy consumption						
Renewable energy sources	%		47.4	47.9	55.4	57.2
Non-renewable energy sources	%		52.6	52.1	44.6	42.8
Therein Fraport parent company						
Purchased energy	TJ		2,236.6	2,180.8	2,128.0	1,728.5
Electricity	TJ	3	1,151.7	1,129.3	1,106.8	900.4
Electricity	million kWh	3	319.923	313.695	307.438	250.118
District heating	TJ		670.2	596.2	608.2	507.1
District heating	million kWh		186.155	165.604	168.945	140.863
District cooling	TJ		414.8	455.3	413.0	320.9
District cooling	million kWh		115.209	126.465	114.716	89.146
Indirect energy consumption						
Renewable energy sources	%		45.7	45.9	55.2	57.3
Non-renewable energy sources	%		54.3	54.1	44.8	42.7
Therein FCS						
Purchased energy	TJ		36.09	40.81	30.98	45.12
Electricity	TJ		18.87	19.93	17.62	17.83
Electricity	million kWh		5.242	5.535	4.895	4.952
District heating	TJ	4	17.22	20.89	13.36	27.29
District heating	million kWh	4	4.783	5.802	3.711	7.582
Indirect energy consumption						
Renewable energy sources	%		45.7	45.9	55.2	57.3
Non-renewable energy sources	%		54.3	54.1	44.8	42.7

GRI 302: Energy						
GRI 302-1	Unit	Comment	2017	2018	2019	2020
Indirect energy consumption						
Therein NICE						
Purchased energy	TJ		4,23	4,52	4,51	2,57
Electricity	TJ		3,81	3,72	3,54	1,98
Electricity	million kWh		1,057	1,032	0,984	0,549
District heating	TJ		0,43	0,80	0,97	0,60
District heating	million kWh		0,118	0,222	0,268	0,166
Indirect energy consumption						
Renewable energy sources	%		45,7	45,9	55,2	57,3
Non-renewable energy sources	%		54,3	54,1	44,8	42,7
Therein FraGround						
Purchased energy	TJ		2,16	2,07	2,69	2,34
Electricity	TJ		1,35	1,24	1,54	1,40
Electricity	million kWh		0,376	0,346	0,428	0,389
District heating	TJ		0,77	0,78	1,05	0,87
District heating	million kWh		0,213	0,217	0,293	0,241
District cooling	TJ		0,04	0,05	0,10	0,07
District cooling	million kWh		0,010	0,013	0,026	0,020
Indirect energy consumption						
Renewable energy sources	%		45,7	100	100	100
Non-renewable energy sources	%		54,3	0	0	0
Therein GCS						
Purchased energy	TJ		2,20	2,19	1,08	0,67
Electricity	TJ		2,10	2,09	0,93	0,56
Electricity	million kWh		0,582	0,581	0,259	0,155
District heating	TJ		0,11	0,10	0,15	0,11
District heating	million kWh		0,030	0,027	0,041	0,032
Indirect energy consumption						
Renewable energy sources	%		45.7	100	100	100
Non-renewable energy sources	%		54.3	0	0	0

⁺ All companies on the contiguous property area of Frankfurt Airport: Fraport parent company, subsidiaries of Fraport AG, more than 500 third parties.

² All data including technical losses, as far as known.

³ Value at the time of the review. As a result of the continuous checks customary in the energy industry, the value may still change after printing.

⁴ Several pharma charter flights in January and February 2020, during which the hall had to be heated up to a constant temperature of 15 degrees Celsius.

TJ = Terajoule

GRI 302: Energy						
GRI 302-3 Energy intensity	Unit	Comment	2017	2018	2019	2020
Frankfurt Airport		1, 2, 3				
Specific total consumption	TJ per million TU		56.73	52.32	49.93	97.10
Purchased direct non-renewable energy sources	TJ per million TU	4	9.57	8.95	8.90	13.19
Purchased energy	TJ per million TU	4	47.16	43.37	41.03	83.91
Therein Fraport parent company						
Specific total consumption	TJ per million TU		31.63	29.46	28.81	53.52
Purchased direct non-renewable energy sources	TJ per million TU	4	5.73	5.55	5.52	7.87
Purchased energy	TJ per million TU	4	25.90	23.92	23.29	45.65

[†] All companies on the contiguous property area of Frankfurt Airport: Fraport parent company, subsidiaries of Fraport AG, more than 500 third parties.

² All data including technical losses, as far as known.

³ Consumption of third parties partly due to information that cannot be verified.

⁴ TU = A traffic unit is equivalent to one passenger with baggage or 100 kg of airfreight or airmail.

TJ = Terajoule

GRI 302: Energy						
GRI 302-4	Unit	Comment	2017	2018	2019	2020
Reduction of energy consumption						
Fraport parent company						
Reduction of energy consumption	million kWh	1, 2, 3	69.91	94.92	111.45	130.08
¹ Based on the year 2008, accumulated eff	ects from the year 2008, to the	extent effective in subseq	uent years.			

² Calculation of energy which has been saved for reasons of improved procedures, replacement and upgrading of systems and equipment, and modified employee behavior.

³ Includes calculated savings from completed projects.

GRI 303: Water						
GRI 303-1	Unit	Comment	2017	2018	2019	2020
Total water consumption						
Frankfurt Airport		1				
Total water consumption	million m ³		1.764	2.164	2.209	1.417
Total water consumption	liters per TU	2	20.43	23.73	24.17	37.44
Drinking water	million m ³	4	1.274	1.346	1.448	0.996
Service water	million m ³	3, 5	0.490	0.818	0.760	0.421
Therein Fraport parent company						
Total water consumption	million m ³	7, 8	1.023	1.416	1.436	0.905
Total water consumption	liters per TU	2, 8	11.8	15.5	15.7	23.9
Drinking water	million m ³	4	0.615	0.689	0.760	0.546
Service water	million m ³	5, 8	0.408	0.727	0.675	0.359
Therein FCS						
Total water consumption	million m ³		0.009	0.008	0.007	0.007
Drinking water	million m ³	4	0.009	0.008	0.007	0.007
Service water	<i>m</i> ³		_	_	_	-
Therein NICE						
Total water consumption	million m ³	6	0.010	0.011	0.010	0.007
Drinking water	million m ³	4, 6	0.007	0.008	0.009	0.005
Service water	million m ³	5	0.003	0.003	0.002	0.002
Therein GCS						
Total water consumption	million m ³		0.005	0.005	0.005	0.006
Drinking water	million m ³	4	0.005	0.005	0.005	0.006
Service water	<i>m</i> ³		-	_	_	-

[†] All companies on the contiguous property area of Frankfurt Airport: Fraport parent company, subsidiaries of Fraport AG, more than 500 third parties.

² TU = A traffic unit is equivalent to one passenger with baggage or 100 kg of airfreight or airmail.

³ Less share of drinking water at service water treatment in Terminal 2.

⁴ From the local authority water supply.

⁵ The service water is treated from surface water, rainwater and ground water. Contains subsets, which are estimated.

6 Water is used to dilute the aircraft deicing agents. In cold and snowy winters larger amounts are needed for de-icing. The water consumption therefore rises accordingly.

⁷ Total consumption for the airport minus consumption by third parties at the Frankfurt Airport site.

⁸ Temporarily rising usage because of the construction of Terminal 3.

GRI 303: Water								
AO4 Quality of precipitation water	Unit	Comment	2017	2018	2019	2020		
Frankfurt Airport								
Hydrocarbons	mg/l	1	<0.1	<0.1	0.2	<0.1		
Materials capable of being deposited	ml/l	1	0.23	<0.1	<0.1	0.27		

A 2 h mixed sample is collected each month from the precipitation water channel at a sampling test station located shortly before the discharge point into the River Main. The value for hydrocarbons was calculated from twelve individual samples, the value for "substances capable of being deposited" from eleven individual samples.

GRI 304: Biodiversity						
GRI 304-1	Unit	Comment	2017	2018	2019	2020
Land use						
Frankfurt Airport						
Owned land by Fraport AG	ha	1	2,284.00	2,284.84	2,287.19	2,286.61
of which paved area	ha		1,092.00	1,103.90	1,103.60	1,116.48
¹ Continuous owned land.						

GRI 305: Emissions						
GRI 305-1 Direct (Scope 1) and	Unit	Comment	2017	2018	2019	2020
GRI 305-2 indirect (Scope 2)						
Greenhouse gas emissions						
Fraport parent company						
CO ₂ -emissions	1000 t CO ₂	1	190.1	188.6	170.3	129.3
Direct CO ₂ emissions	1000 t CO ₂	1	36.4	37.2	37.1	21.9
Indirect CO ₂ emissions	1000 t CO ₂	2	153.7	151.4	133.2	107.4
compensated CO ₂ emissions (certificates)	1000 t CO ₂		0	0	0	0
Other relevant greenhouse gas emissions	t CO ₂ equivalent	3	1.923	1.61	1.437	0.801
FCS						
CO ₂ -emissions	1000 t CO ₂	1	3.15	3.37	2.54	3.49
Direct CO ₂ emissions	1000 t CO ₂	1	0.48	0.37	0.37	0.43
Indirect CO ₂ emissions	1000 t CO ₂	2	2.67	3.00	2.18	3.06
NICE						
CO ₂ -emissions	1000 t CO ₂	1	1.60	1.43	1.43	0.80
Direct CO ₂ emissions	1000 t CO ₂	1	1.21	1.02	1.07	0.58
Indirect CO ₂ emissions	1000 t CO ₂	2	0.39	0.41	0.35	0.22
FraGround						
CO ₂ -emissions	1000 t CO ₂	1	0.20	0.07	0.08	0.06
Direct CO ₂ emissions	1000 t CO ₂	1	0.03	0.03	0.03	0.01
Indirect CO ₂ emissions	1000 t CO ₂	2	0.17	0.04	0.05	0.04
GCS						
CO ₂ -emissions	1000 t CO ₂	1	0.36	0.16	0.14	0.13
Direct CO ₂ emissions	1000 t CO ₂	1	0.15	0.15	0.13	0.12
Indirect CO ₂ emissions	1000 t CO ₂	2	0.21	0.00	0.01	0.01

¹ Direct emission in conformity with Scope 1 GHG Protocol Standard: fuels, fuels for combustion plants, here heating oil, natural gas, propane gas.

² Indirect emissions in conformity with Scope 2 GHG Protocol Standard: purchasing of electricity (Fraport Group), district heating, district cooling (Fraport at the Frankfurt site).

³ Only negligible amounts of additional greenhouse gases (such as CH₄, N₂O) are under the influence of the Fraport parent company.

GRI 305: Emissions						
GRI 305-3	Unit	Comment	2017	2018	2019	2020
Other indirect (Scope 3) GHG emissions						
Fraport parent company						
Air traffic	1000 t CO ₂	1	937.8	1009.7	1007.5	420.1
Employee traffic at Fraport parent company	1000 t CO ₂	2	112.0	106.6	127.8	93.9
and third parties at Frankfurt Airport						
Passenger traffic (passengers originated here)	1000 t CO ₂	3, 7	185.0	198.9	273.9	96.9
Business trips of employees at	1000 t CO ₂	4	0.90	0.80	0.75	0.00
Fraport parent company						
Energy consumption of third parties	1000 t CO ₂	5	189.7	183.5	164.7	133.9
(infrastructure and vehicles)						
Other relevant greenhouse gas emissions	t CO ₂ equivalent	6	<2	<2	<2	<2

¹ Air traffic up to 914 m (LTO cycle) of all aircraft landing and taking off at Frankfurt Airport, use of APU.

² Travel by employees to and from the workplace.

³ Travel to and from the airport by passengers, travel in private vehicles and public transport.

⁴ Includes car, rail, and air travel.

⁵ Electricity, heat, cooling, fuels.

⁶ According to investigations carried out in 2005, the emissions of other greenhouse gases at the airport were negligible.

⁷ Increase of aircraft movements and passengers in 2019.

GRI 305: Emissions									
GRI 305-4	Unit	Comment	2017	2018	2019	2020			
Climate intensity according to GHG									
Fraport parent company									
Climate intensity of traffic performance	kg CO₂ per TU	3	2.20	2.07	1.86	3.41			
Direct CO ₂ emissions	kg CO ₂ per TU	1, 3	0.42	0.41	0.41	0.58			
Indirect CO ₂ emissions	kg CO₂ per TU	2, 3	1.78	1.66	1.46	2.84			

¹ Direct emission in conformity with Scope 1 GHG Protocol Standard: fuels, fuels for combustion plants, here heating oil, natural gas, propane gas.

² Indirect emissions in conformity with Scope 2 GHG Protocol Standard: purchasing of electricity, district heating, district cooling.

³ TU = A traffic unit is equivalent to one passenger with baggage or 100 kg of airfreight or airmail.

GRI 305: Emissions								
GRI 305-7 Air polluting emissions	Unit	Comment	2017	2018	2019	2020		
Air traffic at Frankfurt Airport		1						
NOx	t	2	2,517	2,711				
NOx	t	2, 5	2,537	2,733	2,694	1,197		
НС	t	2	389	417				
НС	t	2, 5	393	421	415	177		
PM10	t	2	23	25				
PM10	t	2, 5	24	26	25	10		
SO ₂	t	2	164	177				
SO ₂	t	2, 5	166	180	177	73		
NOx	g per TU	2, 3, 6	29.38	29.97	29.49	31.61		
НС	g per TU	2, 3, 6	4.55	4.61	4.54	4.67		
PM10	g per TU	2, 3, 6	0.28	0.29	0.27	0.26		
SO ₂	g per TU	2, 3, 6	1.92	1.97	1.94	1.93		
Fraport parent company								
NOx	t	4	-	-	-	-		
Benzene	t	4	-	-	-	-		
PM10 (Fine dust <10 μm)	t	4	_	_	_	-		

¹ Caused by 110 to 114 different airlines depending on timetable (summer, winter), only indirectly influenced by Fraport.

² Air traffic: emissions in tons per calendar year up to an altitude of 300 meter (taxiing, starting, climb, descent incl. rollout, engine ignition, APU). Up to an altitude of 300 meters the emissions have a regional effect.

 3 TU = A traffic unit is equivalent to a passenger with baggage or 100 kg of airfreight or airmail.

⁴ Fraport parent company emits per year approximately 264 t NOx, 0.4 t benzene and 9.3 t PM10. These data are derived from the zoning plan documents.

An annual update is not yet possible because determining the data is very complex. In future, the data are to be calculated on a continuous basis, the necessary processes are currently being prepared.

⁵ The movement logs were recreated with current aircraft information so that individual engine information was available for many more aircraft. The calculation procedure for APU emissions was fundamentally revised. It now takes each aircraft into account instead of making a generalized approach, as was the case previously.

⁶ Consideration per TU only related to the new calculation method (for old consideration see abridged environmental statement 2019).

GRI 306: Wastewater and waste								
GRI 306-1 Discharge of wastewater	Unit	Comment	2017	2018	2019	2020		
Frankfurt Airport								
Sewage water	million m ³	1, 2	1.966	2.156	2.142	1.496		
Sewage water	Liters per TU	3	22.8	23.6	23.4	39.5		

¹ Wastewater from Fraport parent company and more than 500 other companies at Frankfurt Airport. The disposal of sewage water from Frankfurt Airport is carried out by Fraport AG, allocation to individual companies is not possible.

² Wastewater is treated in the fully biological water-treatment plant at the Fraport parent company, as well as at fully biological water-treatment plants in Frankfurt Niederrad and Frankfurt Sindlingen. Since 2013, the separation of the precipitation water contaminated with deicing agents has brought about an increased dependence of the amount of sewage water on the nature of the weather conditions in the relevant winter.

³ TU = A traffic unit is equivalent to one passenger with baggage or 100 kg of airfreight or airmail.

GRI 306: Wastewater and waste						
GRI 306-2	Unit	Comment	2017	2018	2019	2020
Waste by type and disposal method						
Fraport parent company						
Amount of waste	1000 t	1, 2	20.36	20.94	20.31	9.45
Amount of waste	kg per TU	3	0.24	0.23	0.22	0.25
Hazardous waste	1000 t	1, 2	2.19	1.77	1.80	1.34
Non-hazardous waste	1000 t	1, 2	18.17	19.17	18.51	8.13
Total recoverability	1000 t	1, 2	18.39	18.94	18.04	7.99
Total disposal	1000 t	1, 2	1.97	2.00	2.28	1.47
Total recoverability rate	%	1, 2	90.3	90.5	88.8	84.5
Waste from international flights	1000 t		4.62	4.65	4.81	2.09
FCS						
Amount of waste	1000 t	1	1.668	1.667	1.525	1.603
Hazardous waste	t	1	0	0	0	0
Non-hazardous waste	1000 t	1	1.67	1.67	1.53	1.60
Total recoverability	1000 t	1	1.61	1.61	1.53	1.60
Total disposal	t	1	58.0	58.0	0.0	0.0
Total recoverability rate	%	1	96.5	96.5	100.0	100.0
NICE						
Amount of waste	1000 t	1, 5	0.13	0.10	0.11	0.08
Hazardous waste	1000 t	1	0	0	0	0
Non-hazardous waste	1000 t	1, 5	0.13	0.10	0.11	0.08
Total recoverability	1000 t	1, 4	0.13	0.10	0.11	0.08
Total disposal	1000 t	1	0	0	0	0
Total recoverability rate	%	1	100	100	100	100
FraGround						
Amount of waste	1000 t	7	4.84			
Hazardous waste	1000 t	7	0			
Non-hazardous waste	1000 t	7	4.84			
Total recoverability	1000 t	7	4.84			
Total disposal	1000 t	7	0			
Total recoverability rate	%	7	100			
ccs						
Amount of waste	1000 t	6				0.0004
Hazardous waste	1000 t	6				0
Non-hazardous waste	1000 t	6				0.0004
Total recoverability	1000 t	6				0.0004
Total disposal	1000 t	6				
Total recoverability rate	%	6				100

¹ Without soil and building rubble.

² Including waste from third parties, primarily residual waste out of aircraft (no catering waste) and without soil and building rubble.

³ TU = A traffic unit is equivalent to a passenger with baggage or 100 kg of airfreight or airmail.

⁴ Aircraft deicing agents.

⁵ The total amount is a mixture of water and Type I/Type IV fluids.

⁶ Since 2020, waste has been generated that is not disposed of and accounted for by Fraport parent company.

⁷ Starting in 2018, waste will be disposed of via Fraport and will therefore be included in Fraport's statistical balance sheet.

GRI 306: Wastewater and waste						
GRI 306-3 Significant spills	Unit	Comment	2017	2018	2019	2020
Fraport parent company		1				
Total number and volume of significant spills						
Number of spills	Number		762	532	430	225
Volume of spills	m ³		10.37	9.00	5.04	3.38
Frequency of spills	Number per 1000		1.60	1.04	0.84	1.06
	aircraft movements					
Effects		2	none	none	none	none

¹ Spills primarily by third parties.

² No environmental hazard because releases are generally on surfaced areas with comprehensive safety installations implemented downstream.

Spills on not surfaced areas are very rare exceptions and are cleared up immediately.

RI 306: Wastewater and waste								
Groundwater improvement	Unit	Comment	2017	2018	2019	2020		
Frankfurt Airport								
Nitrate content at reference measuring	mg/l	1	28	27	24	22		
station well FB5								

¹ Yearly average value.

AO5 – Air quality									
	Unit	Comment	2017	2018	2019	2020			
Frankfurt Airport		1, 2							
NO ₂	µg/m³	3	42	43	40	31			
SO ₂	µg/m³	4	2	2	1	1			
PM10 (fine dust < 10 μm)	µg/m³	5	17	18	16	15			
Benzene	µg/m³	6	0.5	0.6	0.7	0.6			

[†] Annual average of the measured values at the SOMMI1 Station. These values presented the aggregated result of all emissions from different source groups, i.e. apart from pollutants contributed by the airport they also include emissions from third parties (road traffic, trade and industry, house fires, large-scale background pollution). The proportion of the airport depends on the location, and model calculations indicate that the proportion here is between approx. 10% and 30%.

² Limit values/annual average (not applicable at the airport, since no whole-year exposure).

³ NO₂ assessment value according to EU Directive 2008/50/EC, 39. Federal Emission Control Act (BImSchV): 40 μg/m³.

⁴ SO₂ assessment according to Technical Instructions on Air Quality Control (TA Luft) 2002 (otherwise no annual average defined): 50 µg/m³.

⁵ Fine dust, PM10 in accordance with EU Directive 2008/50/EC, 39. Federal Emission Control Act (BImSchV): 40 μg/m³.

6 Benzene assessment value in accordance with EU Directive 2008/50/EC, 39. Federal Emission Control Act (BImSchV): 5 mg/m³.

AO6 – Airfield surfaces and aircraft deicing agents							
	Unit	Comment	2017	2018	2019	2020	
Fraport parent company							
Airfield surfaces deicing agent:	<i>m</i> ³	1	2,394	1,324	1,500	867	
potassium format (fluid – approx. 50% agent),							
applied on the aircraft movement areas							
Airfield surfaces deicing agent:	m ³	1	457	250	182	12	
sodium formate (granulate - approx. 100% agen	t)						
Road salt (NaCl)	m ³	1, 2	988	1,291	464	283	
NICE							
Deiced aircraft	Number	1	6,480	5,517	6,348	2,487	
Aircraft deicing agent: propylene glycol (NICE)	m ³ active ingredient		1,835	1,318	1,473	679	
Aircraft deicing agents:	m ³ substance per aircraf	t	0.283	0.239	0.232	0.273	
propylene glycol; per de-iced aircraft (NICE)							

¹ Values fluctuate strongly depending on the characteristics of the winter months.

² Starting in 2019, values refer for the first time to the calendar year 2019 and not to the winter season 2018/2019.

Intermodality						
	Unit	Comment	2017	2018	2019	2020
Fraport parent company						
Employee traffic						
Travel to and from work by public transport	Share of employees in %	1	31.2	30.3	28.6	18.0
Travel to and from work by carpooling	Share of employees in %	1	13.6	12.8	13.2	5.0
Passenger traffic at Frankfurt Airport (FRA)						
Travel of originating passengers to and from	Share of passengers in %	1	34.1	34.5	33.5	30.0
the airport by public transport						
therein arrival/departure by ICE	Share of passengers in %	1	11.6	12.1	11.0	10.5
(Intercity Express)						

¹ The values are based on a survey.

AO7 – Aircraft noise						
AO7 Number and percentage of people*	Unit	Comment	2017	2018	2019	2020
residing in areas affected by noise						
Flughafen Frankfurt						
Number of people residing in the contour Leq,	Number	1, 2	2,929			
day = 60 dB(A) (criterion provided for in the Act						
for Protection against Aircraft Noise)						
Relative change compared with the previous year	Percent		5			
Number of people residing in the contour Leq,	Number	1, 2	1,601	1,989	2,379	606
day = 60 dB(A) (criterion provided for in the Act						
for Protection against Aircraft Noise) **						
Relative change compared with the previous year	Percent		-42	24	20	-75
Number of people residing in the contour Leq,	Number	1, 3, 4	96,774			
day = 55 dB(A) (Criterion similar Act for						
Protection against Aircraft Noise)						
Relative change compared with the previous year	Percent		-2			
Number of people residing in the contour Leq,	Number	1, 3, 4	73,377	82,374	81,435	27,857
day = 55 dB(A) (Criterion similar Act for						
Protection against Aircraft Noise)**						
Relative change compared with the previous year	Percent		-26	12	-1	-66
Number of people residing in the contour of the	Number	1, 5	78,819			
envelope from NAT, night = 6 x 68 dB(A) and Leq,						
night = 50 dB(A) (Criterion similar Act for						
Protection against Aircraft Noise)						
Relative change compared with the previous year	Percent		15			
Number of people residing in the contour of the	Number	1, 5	73,901	75,036	64,860	15,380
envelope from NAT, night = 6 x 68 dB(A) and Leq,						
night = 50 dB(A) (Criterion similar Act for						
Protection against Aircraft Noise) **						
Relative change compared with the previous year	Percent		8	2	-14	-76

* Figures based on DDS population database. The data reference year for all evaluations is 2010. Updating the data reference year to 2010 results in a slightly changed number of residents in the relevant contours in the years up to 2014 compared to previous publications.

** The values were calculated by applying modified approaches for calculating aircraft noise (with resulting reductions) as described under 1.

¹ The aircraft noise contours were calculated on the basis of two national regulations: "Introduction to Calculation of Noise Abatement Areas (AzB)" and "Introduction to data collection on Flight Operations (AzD, 2008)". All scenarios were standardized on the basis of the long-term average operating direction distribution for the ten years 2000 to 2009. The Sigma supplement developed for the projected protection zone calculation in accordance with the Noise Abatement Act and described in AzB and AzD was not applied. From the year 2017, aircraft noise calculation takes account of the fact that new aircraft types – particularly on takeoff – generate significantly lower noise emissions than older aircraft types with similar capacities. The first of these new aircraft types was the Airbus A380, followed by the Boeing B787, A320neo, A350 and other aircraft. From 2017, these new, quieter aircraft types will be removed from the relevant AzB aircraft groups in the data recording system and provided with modified approaches for calculating noise emission during takeoff and landing compared with the "classic" AzB aircraft groups. These changes correspond to those that have been agreed for the relevant aircraft types in the context of the agreements on the "noise upper limit" between the players involved. Starting with the A380 in 2010, the new aircraft types are increasingly being used in Frankfurt. This means that the aircraft noise contours calculated between 2010 and 2016 and the relevant resident numbers determined in this regard were increasingly overestimated.

² The criterion Leq, day = 60 dB(A) is based on the definition of day protection zone 1 in accordance with the Aircraft Noise Abatement Act.

³ The criterion Leq, day = 55 dB(A) is based on the definition of day protection zone 2 in accordance with the Aircraft Noise Abatement Act.

⁴ The data on Leq, day = 55 dB(A) is the total number within this contour, the number specified under Leq, day = 60 dB(A) is therefore a sub-quantity.

⁵ The criterion envelope from NAT, night = 6 x 68 dB(A) and Leq, night = 50 dB(A) is based on the definition of night protection zone according to the Aircraft Noise Abatement Act.

AO7 – Aircraft noise						
	Unit	Comment	2017	2018	2019	2020
Surrounding area of Frankfurt Airport						
Approach		1				
Monitoring station 01 Offenbach Lauterborn, day	Leq(3) in dB(A)	2, 3	58	56		
Monitoring station 01 Offenbach Lauterborn, day*	Leq(3) in dB(A)	2, 3	56.0	53.9	55.7	55.2
Monitoring station 01 Offenbach Lauterborn, night	Leq(3) in dB(A)	2, 4	52	51		
Monitoring station 01 Offenbach Lauterborn, night	* Leq(3) in dB(A)	2, 4	51.2	49.1	50.3	49.3
Monitoring station 06 Raunheim, day	Leq(3) in dB(A)	2, 3	59	62		
Monitoring station 06 Raunheim, day*	Leq(3) in dB(A)	2, 3	58.8	61.6	60.3	56.8
Monitoring station 06 Raunheim, night	Leq(3) in dB(A)	2, 4	53	54		
Monitoring station 06 Raunheim, night*	Leq(3) in dB(A)	2, 4	52.7	54.2	53.6	49.1
Monitoring station 14 Hochheim, day	Leq(3) in dB(A)	2, 3	54	57		
Monitoring station 14 Hochheim, day*	Leq(3) in dB(A)	2, 3	53.9	56.9	55.4	49.1
Monitoring station 14 Hochheim, night	Leq(3) in dB(A)	2, 4	46	50		
Monitoring station 14 Hochheim, night*	Leq(3) in dB(A)	2, 4	45.6	49.5	48.1	38.9
Monitoring station 44 F-Lerchesberg, day	Leq(3) in dB(A)	2, 3	58	58		
Monitoring station 44 F-Lerchesberg, day*	Leq(3) in dB(A)	2, 3	57.5	56.6	57.3	53.9
Monitoring station 44 F-Lerchesberg, night	Leq(3) in dB(A)	2, 4	50	51		
Monitoring station 44 F-Lerchesberg, night*	Leq(3) in dB(A)	2, 4	48.8	49.6	48.8	46.8
Take off		1				
Monitoring station 12 Bad Weilbach, day	Leq(3) in dB(A)	2, 3	56	53		
Monitoring station 12 Bad Weilbach, day*	Leq(3) in dB(A)	2, 3	55.1	52.2	54.1	51.7
Monitoring station 12 Bad Weilbach, night	Leq(3) in dB(A)	2, 4	48	47		
Monitoring station 12 Bad Weilbach, night*	Leq(3) in dB(A)	2, 4	47.1	46.1	46.6	39.7
Monitoring station 32 Nauheim, day	Leq(3) in dB(A)	2, 3	56	54		
Monitoring station 32 Nauheim, day*	Leq(3) in dB(A)	2, 3	54.9	52.7	53.9	52.2
Monitoring station 32 Nauheim, night	Leq(3) in dB(A)	2, 4	46	43		
Monitoring station 32 Nauheim, night*	Leq(3) in dB(A)	2, 4	45.5	42.7	43.9	41.6
Monitoring station F-Süd, day	Leq(3) in dB(A)	2, 3	56	58		
Monitoring station F-Süd, day*	Leq(3) in dB(A)	2, 3	54.4	56.1	55.3	53.5
Monitoring station F-Süd, night	Leq(3) in dB(A)	2, 4	52	52		
Monitoring station F-Süd, night*	Leq(3) in dB(A)	2, 4	50.6	51.5	50.0	48.9
Monitoring station 51 Worfelden, day	Leq(3) in dB(A)	2, 3	57	58		
Monitoring station 51 Worfelden, day*	Leq(3) in dB(A)	2, 3	56.3	56.6	56.0	51.8
Monitoring station 51 Worfelden, night	Leq(3) in dB(A)	2, 4	53	52		
Monitoring station 51 Worfelden, night*	Leq(3) in dB(A)	2, 4	52.2	52.0	52.4	48.1
Monitoring station Forsthaus, day	Leq(3) in dB(A)	2, 3	58	56		
Monitoring station Forsthaus, day*	Leq(3) in dB(A)	2, 3	57.0	55.6	56.5	52.9
Monitoring station Forsthaus, night	Leq(3) in dB(A)	2, 4	52	50		
Monitoring station Forsthaus, night*	Leq(3) in dB(A)	2, 4	51.7	49.9	50.7	46.7

AO7 – Aircraft noise						
	Unit	Comment	2017	2018	2019	2020
Frequency of the exceedance of the		1, 4				
maximum level of 68 dB(A) per night						
Monitoring station 01 Offenbach Lauterborn	Number of	5	17.4	11.2	13.8	6.1
	exceedance cases					
Monitoring station 06 Raunheim	Number of	5	8.3	15.4	10.5	2.0
	exceedance cases					
Monitoring station 14 Hochheim	Number of	5	4.6	12.0	7.8	0.6
	exceedance cases					
Monitoring station 44 F-Lerchesberg	Number of	5	7.4	10.0	7.5	3.8
	exceedance cases					
Monitoring station 12 Bad Weilbach	Number of	5	8.3	15.4	10.5	0.2
	exceedance cases					
Monitoring station 32 Nauheim	Number of	5	2.4	1.3	1.8	0.3
	exceedance cases					
Monitoring station 41 F-Süd	Number of	5	14.6	16.9	11.2	5.1
	exceedance cases					
Monitoring station 51 Worfelden	Number of	5	5.2	4.2	5.7	3.6
	exceedance cases					
Monitoring station 71 Forsthaus	Number of	5	16.6	13.5	14.6	3.4
	exceedance cases					
Share of western operations day	Share in %	3, 6, 7	78.7	49.7	68.8	72.9
Share of western operations night	Share in %	4, 6, 7	76.2	50.0	66.3	72.0

* new conformity with DIN 45643:2011

¹ Selected representative noise-monitoring station from a monitoring network with 28 static stations.

² Energy equivalent continuous sound level [Leq(3) in dB(A)] based on the German Aircraft Noise Act in conformity with DIN 45643. Leq(3) is calculated during the six busiest months from May until October in the years 2009, 2010 und 2012 based on the German Aircraft Noise Act, segmented in day and night. Exception was the year 2011, with the six busiest months of March, May, July and October. Changes to the monitoring stations on the approach and takeoff routes of the parallel runway system are mainly based on the fluctuations in the distribution of operations (easterly/westerly) from year to year caused by different weather conditions or wind directions. The website www.fraport.de provides detailed information.

³ Daytime: 06:00 to 22:00.

⁴ Nighttime: 22:00 to 06:00.

⁵ During the six busiest months (2017, 2018, 2019: May until October).

⁶ From the parallel runway system with takeoff toward the west, approach from the east.

⁷ Share of easterly operations: difference from share of westerly operations in % to 100%.

Health and safety of the customers						
AO9 Total number of wildlife strikes	Unit	Comment	2017	2018	2019	2020
per 10,000 movements						
Frankfurt Airport (wildlife strikes)	Number per 10,000)	5.59	5.34	4.46	6.93
	aircraft movements					

Compliance with statutory regulations

There are no breaches of statutory regulations which have been subject to fines or non-monetary sanctions imposed by the authorities, and no proceedings in relation to such breaches are pending.

Status of the Environmental Program 2020 to 2023

The Environmental Program for 2020 describes the most important goals and measures that the Fraport parent company and the NICE, FCS, FraGround and GCS subsidiaries have defined for Frankfurt Airport up until 2023 and beyond for the issues of noise abatement, climate protection, intermodality, air quality, nature conservation and protection of resources.

The measures of the Fraport parent company are not particularly marked.

The measures of Fraport Cargo Services GmbH are marked with FCS, those of NICE Aircraft Services & Support GmbH are marked with NICE, those of FraGround Fraport Ground Services GmbH are marked with FraGround and those of GCS Gesellschaft für Cleaning Service mbH & Co. Airport Frankfurt/Main KG are marked with GCS.

The environmental program of the Fraport parent company is shown in abbreviated form in the sustainability program.

Key for status:



Measure fulfilled > 90% to 100% or established as a continuous process



Measure continues to apply in the Environmental Program 2020 and/or Measure partly fulfilled

Measure could not be implemented

Noise abatement

Target	Measure	Deadline	Status June 2021
Ensure that the area affected by aircraft noise during the day is below the noise cap target (Maximum Noise Area). Area affected by a Leq 55 dB(A) day ≤ 22,193 ha.*	 Active noise protection measures such as: Promotion of fleet replacement to quieter aircraft via charging regulations raising the approach glide angle at the Northwest Runway to 3.2 degrees GBAS**-based noise-reducing approach procedures, in particular increasing the approach glide angle at the South and Center Runways to 3,2 degrees Providing incentives for the use of GBAS** as part of application process for the charges system. 	Unlimited	 Increase in noise-related charges (noise surcharges for night- time marginal hours and core night) Introduction of the precision flight procedure RNP1 in con- junction with a precisely defined turn radius (RF-Leg) on selected routes for greater tracking accuracy during take-off Investigation of different take-off procedures with the aim of recommending the most noise-efficient procedure for all departure routes at Frankfurt Airport. Affected area: 11,173 ha (2020).
	Continuation of the dialog with stake- holders from the region in the "Airport and Region Forum" on development of further measures.	Unlimited	Will be continued.

* In November 2017, the Hesse State Government reached an agreement on a voluntary upper limit for noise at Frankfurt Airport with Fraport, the airlines, the German Air Navigation Services (DFS) and the "Airport and Region Forum". The corresponding area-based target replaces the previous population-related target (see Environmental Statement 2017, p. 56).

** Ground Based Augmentation System.

Climate protection

Target	Measure	Deadline	Status June 2021
Reduction of absolute CO ₂ emissions by 65 percent to 80,000 tons by 2030 (Fraport parent company, Scopes 1 and 2 GHG Protocol, baseline year 1990). Reduction of specific CO ₂ amissions by 84 parcent to	Energy optimization in portfolio buildings operated by the Fraport parent company – In the terminals – In office and service buildings.	2030	Measures carried out at the terminal: upgrading ventilation control centers, optimizing air throughputs, switching off pumps and lighting controls. Potential achieved at the end of 2020: $30,200 \text{ t } \text{CO}_2/\text{year}$. Measures carried out in service and administrative buildings: optimization of hydraulics and controls for controlling circuits, optimization of air-conditioning systems, regulation of air-con- trol system based on weather forecasts, lighting retrofitted to LED. Potential achieved at the end of 2020: 4,300 t CO ₂ /year.
0.9 kg/traffic unit by 2030 (Fraport parent company.	Conversion of apron areas and roads to LED lighting.	2023	Conversion of operational and apron areas to LED. Realized potential 2020: 1,200 t CO ₂ .
(Fraport parent company, Scopes 1 and 2 GHG Plan. Protocol, baseline year impl 1990). new Impl energ syste	Planning and construction-integrated implementation of an energy-optimized new terminal (T3).	Construction integrated implemen- tation	Measures in phase of implementation: planned technical systems have been optimized by complex building simulations and will provide sustainable operation of the new terminal building by means of a building envelope with a high level of thermal insulation, needs based sun pro- tection, optimized daylight use, free cooling, highly efficient heat recovery, efficient energy distribution, comprehensive use of LEDs, utilization of the building's own dissipated heat, etc.
	Implementation of measures to achieve energy savings in the baggage conveyor system.	2023	Implemented measures: reduction of drive power in "early baggage" stores, distri- butors, feeders, modification of the controls for improved shutdown of the baggage conveyor system during off-peak periods, and reduction of gliding friction by replacing belts at heighteners. Potential achieved at the end of 2020: 2,000 t CO ₂ .
	Expansion of the electric vehicle fleet (focus on ground handling services).	2030	By the end of 2020 the ground handling services operate a total of 32 electric vehicles. These vehicles include electric and hybrid equipment. Potential achieved thanks to entire e-fleet achieved by the end of 2020: 1,100 t CO ₂ . The total number of electric vehicles in the Fraport fleet as of December 31, 2020: 553. A funded project for two electric buses was launched in 2018. The buses were put into operation in March 2020.
Reduction of energy consumption. (NICE)	Introduction of an electric hybrid test vehicle into the fleet.	2022	Service vehicles: Locations and feasibility for the installation of the charging infrastructure are currently being clarified. De-icing vehicles: A first hybrid de-icing vehicle was demon- strated on site by the manufacturer.
	Switching to energy-saving light sources optimizes the energy requirement for lighting at the de-icing agent tank facilities by 5%.	2022	An assessment has been made and successive implementation is taking place.
	Energy consumption (electricity/district heating) for the provision of hot water at the tank facilities is reduced by 5%.	2022	Filling levels and heating cycles were adjusted. An analysis of the data from the winter season 20/21 will be conducted.
Improvement of waste processes, generation of higher yields through optimized separation.	A project group is formed with the task of analyzing and optimizing the processes and scouting the market for partners.	2021	June 2021: Talks with waste disposal companies to explore offers for the establishment of a "recyclables depot".

Climate protection (continuation)

Target	Measure	Deadline		Status June 2021			
Avoidance of t container transportation across the airport. (FCS)	Establishment of a central container storage facility.	2020		February 2020: Launch of container storage.			
Reduction of direct CO ₂	Training courses on resource-saving driving.	2025		There were no training courses in 2020 yet.			
emissions of 131,948 kg CO ₂ by a further 10%.	Further replacement procurement of vehicles with lower CO_2 emissions.	2025		Furthermore, the market for electric cars and the distribution of charging stations is being observed. In cooperation with the			
(GCS)	Evaluation of potential vehicles that can be purchased with alternative propulsion systems.	2025		purchasing department, alternatives are being sought and compared. By 2025, it is intended to use or test approx. two CO ₂ -neutral vehicles as pool vehicles on the airport premises.			
* TU: one passenger with baggage or 100 kg of airfreight or air mail.							

Intermodality

Target	Measure	Deadline	Status June 2021
Improvement in intermodal services for passengers.	Establishment of information boards with passenger information on public passenger transport connections in Terminal 1 and 2.	2023	Information boards already exist in Terminal 1. Work is currently underway to install additional boards.
	An optimized connection between Termi- nal 3 and the northern area of the airport as well as the long-distance railway station via an automatic, electric rail-based people mover system and shuttle buses for passen- gers and employees.	2024 until the opening of Terminal 3	Construction of the people mover system is currently underway.
Improvement in the con- ditions for cycling around the airport.	Installation and modernization of bicycle parking facilities near buildings in new or renovated buildings as an alternative to the construction of more space-intensive car parking areas.	2023 ongoing	New bicycle parking facilities: Mid-2020 at building 162 End of 2020 at building 123.
	A central parking space register for bicycle parking facilities at the airport is to be compiled in order to fulfil the obligation to provide proof to the City of Frankfurt and to optimize the locations of the parking spaces in order to increase the attractiveness for bicycle commuters.	2020	A bicycle parking space register is in progress.

Air quality

Target	Measure	Deadline	Status June 2021
Monitoring of air pollutant emissions from all relevant emitters of airport opera- tions (see sustainability programme).	 Quality assurance of inventory and operational data (conversion of SAP data to calendar years, plausibility checks). Optimisation of the methodology for the use of operational data for the emission model (commissioning of external sup- port, initial coordination of the procedure) Professional support for the further devel- opment of the LASPORT model (emission and dispersion model for determining airport-related emissions), testing and commissioning of LASPORT version 2.3.10 Cooperation with the HNLUG and the UNH on research into ultrafine particles (UFP). 	Ongoing*	The creation of a comprehensive emissions inventory is a continuous process.
Reduction of emissions and air pollutants from the operation of the airport.	Further increase in the share of electrically driven ground handling equipment (see under Climate protection: Use of alternative drive technologies).	2030	See climate protection.
* As this is a continuous proce	Use of alternative drive technologies). ess, a deadline is no longer set in absolute tern	ıs.	

Nature conservation and resource protection

Target	Measure	Deadline	Status June 2021
Limit paper consumption per employee to 1.51 kg p.a. (FraGround)	Introduction of an information app for employees.	2020	The "FRA OPS" information app for employees was launched in 2020. The 2019 paper consumption of 1.46 kg per employee was undercut by 4% in 2020 to 1.41 kg per employee. Passenger numbers were low until June 2021 due to the Coronavirus pandemic. Short-time work was continued, no recruitments were made. From mid July 2021, recruitment will resume. It cannot yet be estimated what effect it will have on paper consumption. The objective is to maintain the 2020 value.
Avoid plastic waste, improve recycling. (GCS)	Collection and examination: Return of plastic bottles, recycling by the manu- facturer or refilling. Establishment of a system for direct recycling. Evaluation, coordination and testing with Operations for the introduction of this system.	2021	The collection of plastic bottles of cleaning agents was started in Terminal 1 in August 2021 (return bags were issued).

Environmental Auditor's Declaration on Verification and Validation Activities

The Institut für Umwelttechnik Dr. Kühnemann und Partner GmbH with registration number	DE-V-0133,
represented by Dr. Burckhard Kühnemann with registration number	DE-V-0103 DE-V-0366,
accredited or licensed for the scope	NACE 52.23,

meets all requirements of Regulation (EC) No 1221/2009 of the European Parliament and of the Council of 25 November 2009 on the voluntary participation by organizations in a Community eco-management and audit scheme (EMAS), modified by amendment regulation (EU) 2018/2026 dated 19 December 2018.

By signing this declaration, I declare that:

- the verification and validation have been carried out in full compliance with the requirements of Regulation (EC) No 1221/2009,
- the outcome of the verification and validation confirms that there is no evidence of non-compliance with applicable legal requirements relating to the environment,
- the data and information of the updated environmental statement of the organization reflect a reliable, credible and correct image of all the site's activities, within the scope mentioned in the environmental statement.

This document is not equivalent to EMAS registration. EMAS registration can only be granted by a Competent Body under Regulation (EC) No 1221/2009. This document shall not be used as a stand-alone piece of public communication.

Carried out at Frankfurt on September 1st, 2021

. huit 1.40

Dr. Kühnemann Institut und Partner für Umwelt

Business address: Prinzenstraße 10a, 30159 Hannover, Germany Registration number: DE-V-0133

Schedule

The next Environmental Statement, scheduled for July 2022, will be subject to validation by an environmental auditor before being released for publication.

Imprint

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As of August 2021

* 20 cents per call from a German landline, regardless of the duration of the call, max. 60 cents from mobile network

** for questions regarding aircraft noise and airport expansion, toll-free number within Germany

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