Appendix 13-1: Climate Change - GHG Assessment

Appendix 13-1 Climate Change – GHG Assessment

1. Introduction

1.1.1 This outlines the emission factors used in the greenhouse gas (GHG) lifecycle impact assessment for the Proposed Order, as detailed in Chapter 13: Climate (Environmental Impact Assessment Report (EIAR) Volume 2). This appendix explains the supporting GHG methodology for the lifecycle stages assessed in the GHG lifecycle impact assessment, including operation, surface access transportation, and aviation emissions. Additionally, this Appendix provides the annual emission totals.

2. Operation

2.1.1 Emission factors used to convert operational activity data for baseline information from 2023, 2024 and 2025 into emissions are shown in Table 2A-1, Table 2A-2 and Table 2A-3, respectively.

2.1.2 In 2024 operational data for the following emission sources were not provided by daa including:

- Gas oil (elec. generation)
- hydrogenated vegetable oil (HVO) (elec. Generation and heating)
- LPG (cookers)
- Acetylene (welding)
- HVO (transport)
- Road diesel (transport)
- Petrol (transport)
- Green diesel (Transport)

2.1.3 Emission factors used to convert waste disposal data for baseline information from 2024 and 2025 into emissions are shown in Table 2A-4 and Table 2A-5, respectively. Waste disposal data for 2023 was not provided, however, because it was likely to be material, data from 2025 was used to estimate emissions for 2023 based on the difference in passenger numbers.

2.1.4 The Sustainable Energy Authority of Ireland (SEAI) is a government agency dedicated to promoting and supporting the development of sustainable energy in Ireland. SEAI provides conversion factors for specific energy use, which were utilised in this assessment where applicable.

2.1.5 The UK Department for Environment Food and Rural Affairs (DEFRA) and Department for Energy Security and Net Zero (DESNZ) Greenhouse Gas Reporting: Conversion Factors[1] provides a comprehensive set of factors for converting various activities and emissions into equivalent GHG emissions. These conversion factors allow organisations to calculate and report their GHG emissions accurately and consistently, covering sectors such as energy, transport, waste management, and agriculture. The document includes updated emission factors for different fuels (including aviation), energy use and waste disposal methods, enabling businesses and policymakers to assess their environmental impact and develop effective strategies for reducing GHG emissions.

2.1.6 This UK guidance has been used in the absence of relevant GHG emission factor data being available in Ireland. Furthermore, The DEFRA/DESNZ Conversion Factors are appropriate to use in Ireland in the absence of Irish-specific emission factors because they provide a standardised and widely accepted framework for calculating and reporting GHG emissions, ensuring consistency and comparability across different sectors and allowing for a meaningful assessment of environmental impact.

[1] DEFRA, Greenhouse Gas Reporting: Conversion Factors 2021, 2021, https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2021

Table 2A-1: Emissions Factors from 2023 Operational Activities

Activity	Units of Material/ Activity	Emissions Factor Source	Emission factor $kgCO_2e$/unit
Electricity	kWh	SEAI 2023/2024 electricity consumption & DESNZ 2023/2024/2025 Well-to-tank (WTT) electricity supply and transmission and distribution losses (T&D)	0.25
Gas	kWh	SEAI 2023/2024 Gas & DESNZ 2023/2024/2025 gas WTT	0.20
Water	m^3	DESNZ 2023/2024/2025 Water Supply and Water treatment	0.18
Waste water	m^3	DESNZ 2023/2024/2025 Water Supply and Water treatment	0.20
Gas oil (elec. generation)	L	SEAI 2024 Diesel/gasoil & DESNZ 2023/2024/2025 gas oil WTT	3.31
HVO (elec. Generation and heating)	L	DESNZ 2023/2024/2025 HVO& HVO WTT	0.31
LPG (cookers)	L	SEAI 2024 LPG & DESNZ 2023/2024/2025 LPG WTT	1.75
Acetylene (welding)	m^3	IPCC	3.71
HVO (transport)	L	DESNZ 2023/2024/2025 HVO& HVO WTT	0.31
Road diesel (transport)	L	SEAI 2024 road diesel & DESNZ 2023/2024/2025 Diesel WTT	3.07
Petrol (transport)	L	SEAI 2024 road petrol & DESNZ 2023/2024/2025 Petrol WTT	2.72
Green diesel (Transport)	L	DESNZ 2023/2024/2025 HVO& HVO WTT	0.31

Table 2A-2: Emissions Factors from 2024 Operational Activities

Activity	Units of Material/ Activity	Emissions Factor Source	Emission factor $kgCO_2e$/unit
Electricity	kWh	SEAI 2024 electricity consumption & DESNZ 2024 WTT elec. Supply and T&D	0.22
Gas	kWh	SEAI 2024 Gas & DESNZ 2024 WTT	0.20
Water	m^3	DESNZ 2024 Water Supply and Water treatment	0.15
Waste water	m^3	DESNZ 2024 Water Supply and Water treatment	0.19

Table 2A-3: Emissions Factors from 2025 Operational Activities

Activity	Units of Material/ Activity	Emissions Factor Source	Emission factor $kgCO_2e$/unit
Electricity	kWh	SEAI 2024 electricity consumption & DESNZ 2025 WTT elec. Supply and T&D	0.22
Gas	kWh	SEAI 2024 Gas & DESNZ 2025 WTT	0.20
Water	m^3	DESNZ 2025 Water Supply and Water treatment	0.19
Waste water	m^3	DESNZ 2025 Water Supply and Water treatment	0.17
Gas oil (elec. generation)	L	SEAI 2024 Diesel/gasoil & DESNZ 2025 gas oil WTT	3.31
HVO (elec. Generation and heating)	L	DESNZ 2025 HVO& DESNZ 2025 HVO WTT	0.60
LPG (cookers)	L	SEAI 2024 LPG & DESNZ 2025 LPG WTT	1.75

Activity	Units of Material/ Activity	Emissions Factor Source	Emission factor $kgCO_2e$/unit
Acetylene (welding)	m^3	IPCC	3.71
HVO (transport)	L	DESNZ 2025 HVO& DESNZ 2025 HVO WTT	0.60
Road diesel (transport)	L	SEAI 2024 road diesel & DESNZ 2025 Diesel WTT	3.05
Petrol (transport)	L	SEAI 2024 road petrol & DESNZ 2025 Petrol WTT	2.68
Green diesel (Transport)	L	DESNZ 2025 HVO& DESNZ 2025 HVO WTT	0.60

Table 2A-4: Emissions Factors from 2024 Waste Operational Activities

Segregated Waste Type	Units of Material/ Activity	Emissions Factor Source	Emission factor $kgCO_2e$/unit
Mixed Municipal Waste	t	DESNZ 2024 Commercial and industrial waste - landfill	520.33
Compost	t	DESNZ 2024 Mixed garden and food waste - composting	8.88
DMR	t	DESNZ 2024 Average construction - open loop recycling	0.98
Glass	t	DESNZ 2024 Glass - closed loop recycling	6.41
WEEE	t	DESNZ 2024 WEE mixed - open loop recycling	6.41
Wood	t	DESNZ 2024 Wood - closed loop recycling	6.41
Shredding	t	DESNZ 2024 Paper and board - paper - closed loop recycling	6.41
Metal (Rebate)	t	DESNZ 2024 Metal - closed loop recycling	0.98
Cardboard (Rebate)	t	DESNZ 2024 Paper and board - board - closed loop recycling	6.41

Table 2A-5: Emissions Factors from 2025 Waste Operational Activities

Segregated Waste Type	Units of Material/ Activity	Emissions Factor Source	Emission factor $kgCO_2e$/unit
Mixed Municipal Waste	t	DESNZ 2025 Commercial and industrial waste - landfill	520.53
Compost	t	DESNZ 2025 Mixed garden and food waste - composting	8.98
DMR	t	DESNZ 2025 Average construction - open loop recycling	1.01
Glass	t	DESNZ 2025 Glass - closed loop recycling	4.69
WEEE	t	DESNZ 2025 WEE mixed - open loop recycling	4.69
Wood	t	DESNZ 2025 Wood - closed loop recycling	4.69
Shredding	t	DESNZ 2025 Paper and board - paper - closed loop recycling	4.69
Metal (Rebate)	t	DESNZ 2025 Metal - closed loop recycling	1.01
Cardboard (Rebate)	t	DESNZ 2025 Paper and board - board - closed loop recycling	4.69

2.1.7 For the reduction resulting from the Ireland's policy commitments from the Climate Action and Low Carbon Development Act, a mitigation factor was applied to the GHG emissions from grid electricity and natural gas consumption. This was done through the application of a year-on-year percentage reduction estimated using Ireland's Greenhouse Gas Emissions Projections 2024-2055 "With Existing Measures" for public electricity and heat production (Table 2A-6).

2.1.8 To derive emission factors for 2026 onwards, the latest available 2025 emission factors were used as the baseline, with the relevant decarbonisation projections from Table 2A-6 applied for future assessment years. This approach accounts for anticipated reductions in emissions intensity over time, reflecting projected decarbonisation across the energy system and other relevant sectors.

Table 2A-6: Year-on-year percentage reduction estimated using Ireland's Greenhouse Gas Emissions Projections 2024-2055 "With Existing Measures" for Public electricity and heat production sector

Year	Reduction Percentage	Year	Reduction Percentage
2026	-9%	2039	-64%
2027	-27%	2040	-67%
2028	-34%	2041	-71%
2029	-32%	2042	-74%
2030	-38%	2043	-70%
2031	-49%	2044	-69%
2032	-61%	2045	-67%
2033	-63%	2046	-72%
2034	-63%	2047	-76%
2035	-61%	2048	-76%
2036	-61%	2049	-77%
2037	-60%	2050	-75%
2038	-57%		

3. Surface Access

3.1.1 Emissions factors used to convert surface access activity data into emissions are shown in Table 3A-1 and Table 3A-2.

Table 3A-1: Emission Factors from 2023 used to Convert Surface Access Data

Mode of Transport	Units of Material/ Activity	Emissions factor applied	Emission Factor kgCO2e/unit	Assumptions Applied
Bus	Km	DEFRA/DESNZ 2023 – Average local bus + WTT	0.13	It is assumed that the bus carries on average 60[2] people to and from the Airport. This was to be representative of the inner-city Transport bus used in Dublin.
Private Car	Km	DEFRA/DESNZ 2023 – Average Diesel Car + WTT	0.21	It is assumed that the cars from the raw transport data from the EIAR transport team were made up of private diesel cars, which present a worst-case scenario.
Heavy Goods Vehicles (HGVs)	Km	DEFRA/DESNZ 2023 – All Rigid HGV, average laden + WTT	1.02	It is assumed that the HGVs from the raw transport data were made up of rigid HGVs that were average laden.
Light Goods Vehicles (LGVs)	Km	DEFRA/DESNZ 2023 – Average Diesel Van + WTT	0.32	It is assumed that the light goods vehicles from the raw transport data were made up of diesel vans.

Table 3A-2: Emission Factors from 2025 onwards used to Convert Surface Access Data

Mode of Transport	Units of Material/ Activity	Emissions factor applied	Emission Factor kgCO2e/unit	Assumptions Applied
Bus	Km	DEFRA/DESNZ 2025 – Average local bus + WTT	0.13	It is assumed that the bus carries on average 60[3] people to and from the Airport. This was considered to be representative of the inner-city Transport bus used in Dublin.
Private Car	Km	DEFRA/DESNZ 2025 – Average Diesel Car + WTT	0.21	It is assumed that the cars from the raw transport data were made up of private diesel cars, which present a worst-case scenario.
Heavy Goods Vehicles (HGVs)	Km	DEFRA/DESNZ 2025 – All Rigid HGV, average laden + WTT	1.04	It is assumed that the HGVs from the raw transport data were made up of rigid HGVs that were average laden.
Light Goods Vehicles (LGVs)	Km	DEFRA/DESNZ 2025 – Average Diesel Van + WTT	0.32	It is assumed that the light goods vehicles from the raw transport data were made up of diesel vans.

3.1.2 Mitigation measures were applied to the surface access data using Ireland's GHG Emissions Projections 'With Existing Measures' for the road transportation sector (Table 3A-3).

[2] Transport for London (2010); All London buses now taking payments as capacity limits are safely increased. Available at: https://tfl.gov.uk/info-for/media/press-releases/2020/july/all-london-buses-now-taking-payments-as-capacity-limits-are-safely-increased (Accessed 18/08/2023).
[3] Transport for London (2010); All London buses now taking payments as capacity limits are safely increased. Available at: https://tfl.gov.uk/info-for/media/press-releases/2020/july/all-london-buses-now-taking-payments-as-capacity-limits-are-safely-increased (Accessed 18/08/2023).

Table 3A-3: Year-on-year percentage reduction estimated using Ireland's Greenhouse Gas Emissions Projections 2024-2055 "With Existing Measures"

Year	Reduction Percentage	Year	Reduction Percentage
2026	-2%	2039	-24%
2027	-3%	2040	-27%
2028	-3%	2041	-31%
2029	-4%	2042	-35%
2030	-5%	2043	-39%
2031	-6%	2044	-43%
2032	-7%	2045	-46%
2033	-8%	2046	-50%
2034	-9%	2047	-53%
2035	-11%	2048	-56%
2036	-14%	2049	-59%
2037	-17%	2050	-61%
2038	-20%		

4. Aviation

4.1.1 As outlined in Chapter 13: Climate (EIAR Volume 2), some aircraft models listed within the aircraft schedule were not available within the Aviation Emissions Calculator[4] or the Atmosfair Flight Emissions Calculator[5], which were used to calculate GHG emissions associated with Air Traffic Movements (ATMs). In these instances, the closest available model produced by the same manufacturer was selected as a proxy.

4.1.2 All substitutions made are outlined in Table 4A-1 below. These substitutions are considered to represent a conservative approach as, generally, the aircraft models which were not available in the emissions calculators are newer, more efficient models. Therefore, less efficient models have generally been used to calculate GHG emissions associated with these aircraft types.

Table 4A-1: Aircraft Model Substitutions made within the GHG Calculations

Aircraft Model Listed in the Aircraft Schedule	Aircraft Model used as a Proxy
Airbus A220-300	Airbus A318
Boeing 777-9	Boeing 777-300ER
Boeing 777-200LR	Boeing 777-300ER
Airbus A321neo	Airbus A321
Airbus A321XLR	Airbus A321
Airbus A321-200NX	Airbus A321
Airbus A350-900NX	Airbus A330-300
Boeing 757-300	Boeing 737-700
Boeing 787-10 Dreamliner	Boeing 787-9 Dreamliner
ATR 72-600 (Freighter)	ATR 42-500

[4] EMEP/EEA, Aviation Emissions Calculator (accompaniment to the EMEP/EEA Air Pollutant Emission Inventory Guidebook, 2023, v1.5_18_09_2024),
[5] Atmosfair, Calculate Flight Emissions, 2020, https://www.atmosfair.de/en/offset/flight/

Aircraft Model Listed in the Aircraft Schedule	Aircraft Model used as a Proxy
Gulfstream G550	Gulfstream G280
Gulfstream G650	Pilatus PC-12
Learjet 45	Gulfstream G280
Bombardier Q400	Ilyushin IL-18
Internal placeholder names (e.g. Y59, Z03, Z30)	Airbus A330-300

4.1.3 Emissions factors used to convert aviation activity data into emissions are shown in Table 4A-2.

Table 4A-2: Emission Factors used to Convert Aviation Data

Activity	Units of material/activity	Emissions Factor Source	Emission factor $kgCO_2e$/unit
Aviation Turbine Fuel	Litres + Well to Tank	DESNZ / DEFRA 2025	3.07

4.1.4 Table 4A-3 presents the landing and take-off (LTO) emissions from aircraft movements during arrival, taxiing, on-stand and departure below 3,000ft (915m). In addition to emissions from Climb, Cruise and Descent (CCD), this includes departing flights only from 3000ft (915m) to within 3000ft of the destination airport.

4.1.5 For some of the flights, the total journey length reported in the aircraft schedule exceeded the range limit of the proxy aircraft selected. In these instances, emissions were calculated for the maximum available journey length for the proxy aircraft within the Aviation Emissions Calculator, then scaled up or down proportionately to account for the total journey distance.

4.1.6 The European Monitoring and Evaluation Programme (EMEP)/European Environment Agency (EEA) Aviation Emissions calculator draws on the ICAO Aircraft Engine Emissions Databank. LTO emissions were used from Europe since this is where Ireland is located.

4.1.7 The Aviation Emissions Calculator results for the different flight path routes for LTO and CCD are shown in Table 4A-3.

Table 4A-3: Flight Path Information used to Inform the Assessment

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
ZRH	223	223>ZRH	670	1,974.16	2,157.74	10,723.45		10,723.45
GVA	223	223>GVA	644	1,974.16	2,157.74	10,338.06		10,338.06
RIX	223	223>RIX	1052	1,974.16	2,157.74	16,245.89		16,245.89
HEL	223	223>HEL	1096	1,974.16	2,157.74	16,888.64		16,888.64
EXT	275	275>EXT	193	1,391.92	1,516.91	2,665.98		2,665.98
SOU	275	275>SOU	234	1,391.92	1,516.91	3,129.66		3,129.66
LUX	275	275>LUX	519	1,391.92	1,516.91	5,867.57		5,867.57
ABZ	275	275>ABZ	267	1,391.92	1,516.91	3,466.55		3,466.55
CAX	275	275>CAX	152	1,391.92	1,516.91	2,152.40		2,152.40
INV	275	275>INV	259	1,391.92	1,516.91	3,391.28		3,391.28
FKB	275	275>FKB	609	1,391.92	1,516.91	6,856.29		6,856.29
AMS	295	295>AMS	406	1,880.83	2,052.69	6,122.40		6,122.40
EDI	295	295>EDI	182	1,880.83	2,052.69	3,119.30		3,119.30
CDG	295	295>CDG	425	1,880.83	2,052.69	6,374.28		6,374.28
HEL	295	295>HEL	1096	1,880.83	2,052.69	15,717.32		15,717.32

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
LCY	295	295>LCY	259	1,880.83	2,052.69	4,173.61		4,173.61
LIS	295	295>LIS	887	1,880.83	2,052.69	12,812.47		12,812.47
WAW	295	295>WAW	989	1,880.83	2,052.69	14,217.98		14,217.98
DUB	295	295>DUB	0	-	-	-		-
CDG	319	319>CDG	425	1,986.18	2,169.76	7,197.99		7,197.99
HEL	319	319>HEL	1096	1,986.18	2,169.76	16,740.49		16,740.49
LHR	319	319>LHR	243	1,986.18	2,169.76	4,707.12		4,707.12
CDG	320	320>CDG	425	2,367.82	2,570.93	7,683.93		7,683.93
LHR	320	320>LHR	243	2,367.82	2,570.93	4,853.89		4,853.89
MAN	320	320>MAN	144	2,367.82	2,570.93	3,268.62		3,268.62
LGW	320	320>LGW	262	2,367.82	2,570.93	5,145.47		5,145.47
BHX	320	320>BHX	174	2,367.82	2,570.93	3,773.33		3,773.33
BER	320	320>BER	720	2,367.82	2,570.93	12,467.70		12,467.70
ZRH	320	320>ZRH	670	2,367.82	2,570.93	11,645.94		11,645.94
MUC	320	320>MUC	748	2,367.82	2,570.93	12,927.89		12,927.89
BOJ	320	320>BOJ	1491	2,367.82	2,570.93	24,891.71		24,891.71

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
HAM	320	320>HAM	581	2,367.82	2,570.93	10,183.19		10,183.19
FCO	320	320>FCO	1020	2,367.82	2,570.93	17,257.83		17,257.83
VCE	320	320>VCE	866	2,367.82	2,570.93	14,804.20		14,804.20
PSA	320	320>PSA	881	2,367.82	2,570.93	15,042.57		15,042.57
LIN	320	320>LIN	772	2,367.82	2,570.93	13,310.38		13,310.38
MXP	320	320>MXP	748	2,367.82	2,570.93	12,927.89		12,927.89
NAP	320	320>NAP	1122	2,367.82	2,570.93	18,911.03		18,911.03
SPU	320	320>SPU	1071	2,367.82	2,570.93	18,084.43		18,084.43
DBV	320	320>DBV	1175	2,367.82	2,570.93	19,770.04		19,770.04
LIS	320	320>LIS	887	2,367.82	2,570.93	15,137.92		15,137.92
FAO	320	320>FAO	987	2,367.82	2,570.93	16,727.08		16,727.08
BOD	320	320>BOD	560	2,367.82	2,570.93	9,838.05		9,838.05
NTE	320	320>NTE	417	2,367.82	2,570.93	7,559.34		7,559.34
NCE	320	320>NCE	793	2,367.82	2,570.93	13,644.10		13,644.10
LYS	320	320>LYS	639	2,367.82	2,570.93	11,136.44		11,136.44
BCN	320	320>BCN	802	2,367.82	2,570.93	13,787.13		13,787.13

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
ALC	320	320>ALC	939	2,367.82	2,570.93	15,964.29		15,964.29
AGP	320	320>AGP	1008	2,367.82	2,570.93	17,063.34		17,063.34
MAD	320	320>MAD	784	2,367.82	2,570.93	13,501.08		13,501.08
AMS	320	320>AMS	406	2,367.82	2,570.93	7,388.03		7,388.03
BRU	320	320>BRU	425	2,367.82	2,570.93	7,683.93		7,683.93
FRA	320	320>FRA	588	2,367.82	2,570.93	10,298.24		10,298.24
VIE	320	320>VIE	922	2,367.82	2,570.93	15,694.13		15,694.13
GVA	320	320>GVA	644	2,367.82	2,570.93	11,218.62		11,218.62
DUS	320	320>DUS	496	2,367.82	2,570.93	8,789.64		8,789.64
PMI	320	320>PMI	911	2,367.82	2,570.93	15,519.32		15,519.32
SCQ	320	320>SCQ	638	2,367.82	2,570.93	11,120.01		11,120.01
NCL	320	320>NCL	188	2,367.82	2,570.93	4,008.86		4,008.86
BIO	320	320>BIO	622	2,367.82	2,570.93	10,857.04		10,857.04
TFS	320	320>TFS	1589	2,367.82	2,570.93	26,508.39		26,508.39
ACE	320	320>ACE	1503	2,367.82	2,570.93	25,087.16		25,087.16
LPA	320	320>LPA	1581	2,367.82	2,570.93	26,376.18		26,376.18

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
ADB	320	320>ADB	1647	2,367.82	2,570.93	27,466.89		27,466.89
ZZF	320	320>ZZF	0	2,367.82	2,570.93	49,485.38		49,485.38
KIV	320	320>KIV	1397	2,367.82	2,570.93	23,368.18		23,368.18
CFU	320	320>CFU	1353	2,367.82	2,570.93	22,655.04		22,655.04
REU	320	320>REU	796	2,367.82	2,570.93	13,691.78		13,691.78
CLJ	320	320>CLJ	1213	2,367.82	2,570.93	20,385.94		20,385.94
SVO	320	320>SVO	1503	2,367.82	2,570.93	25,087.16		25,087.16
PRG	320	320>PRG	788	2,367.82	2,570.93	13,564.65		13,564.65
CPH	320	320>CPH	673	2,367.82	2,570.93	11,695.24		11,695.24
OVD	320	320>OVD	592	2,367.82	2,570.93	10,363.98		10,363.98
KIV	321	321>KIV	1397	3,098.84	3,385.93	28,994.72		28,994.72
FAO	321	321>FAO	987	3,098.84	3,385.93	20,751.54		20,751.54
FRA	321	321>FRA	588	3,098.84	3,385.93	12,771.26		12,771.26
ORY	321	321>ORY	431	3,098.84	3,385.93	9,647.68		9,647.68
YYZ	332	332>YYZ	2849	6,302.13	6,829.44	103,718.08		103,718.08
BOD	332	332>BOD	560	6,302.13	6,829.44	22,247.83		22,247.83

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
DEN	332	332>DEN	3817	6,302.13	6,829.44	138,566.32		138,566.32
SFO	332	332>SFO	4430	6,302.13	6,829.44	160,127.17		160,127.17
YYZ	333	333>YYZ	2849	6,302.13	6,829.44	100,362.99		100,362.99
ATL	333	333>ATL	3422	6,302.13	6,829.44	118,019.05		118,019.05
JFK	333	333>JFK	2763	6,302.13	6,829.44	97,346.28		97,346.28
EWR	333	333>EWR	2774	6,302.13	6,829.44	97,732.14		97,732.14
PHL	333	333>PHL	2844	6,302.13	6,829.44	100,187.60		100,187.60
MCO	333	333>MCO	3539	6,302.13	6,829.44	121,863.78		121,863.78
ORD	333	333>ORD	3192	6,302.13	6,829.44	111,282.94		111,282.94
BOS	333	333>BOS	2600	6,302.13	6,829.44	91,628.58		91,628.58
FAO	333	333>FAO	987	6,302.13	6,829.44	36,355.99		36,355.99
SEA	333	333>SEA	3945	6,302.13	6,829.44	138,107.06		138,107.06
AGP	333	333>AGP	1008	6,302.13	6,829.44	37,043.19		37,043.19
SFO	333	333>SFO	4430	6,302.13	6,829.44	154,823.78		154,823.78
LAX	333	333>LAX	4502	6,302.13	6,829.44	157,258.42		157,258.42
MIA	333	333>MIA	3620	6,302.13	6,829.44	125,104.44		125,104.44

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
YUL	333	333>YUL	2583	6,302.13	6,829.44	91,032.25		91,032.25
KUL	333	333>KUL	5908	6,302.13	6,829.44	204,536.79		204,536.79
ATL	339	339>ATL	3422	5,253.91	5,724.58	120,217.82		120,217.82
JFK	339	339>JFK	2763	5,253.91	5,724.58	97,473.06		97,473.06
PHL	339	339>PHL	2844	5,253.91	5,724.58	100,335.65		100,335.65
MCO	339	339>MCO	3539	5,253.91	5,724.58	124,374.87		124,374.87
ORD	339	339>ORD	3192	5,253.91	5,724.58	112,386.36		112,386.36
SFO	339	339>SFO	4430	5,253.91	5,724.58	156,939.34		156,939.34
EWR	339	339>EWR	2774	5,253.91	5,724.58	97,861.81		97,861.81
LAX	339	339>LAX	4502	5,253.91	5,724.58	159,431.34		159,431.34
BOS	339	339>BOS	2600	5,253.91	5,724.58	91,712.53		91,712.53
AGP	339	339>AGP	1008	5,253.91	5,724.58	36,698.77		36,698.77
SEA	339	339>SEA	3945	5,253.91	5,724.58	140,002.40		140,002.40
DEN	339	339>DEN	3817	5,253.91	5,724.58	135,075.50		135,075.50
MIA	339	339>MIA	3620	5,253.91	5,724.58	127,492.68		127,492.68
LAS	339	339>LAS	4305	5,253.91	5,724.58	152,631.22		152,631.22

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
BOD	339	339>BOD	560	5,253.91	5,724.58	21,496.04		21,496.04
FAO	339	339>FAO	987	5,253.91	5,724.58	35,980.03		35,980.03
CUN	339	339>CUN	4072	5,253.91	5,724.58	144,600.90		144,600.90
CLT	359	359>CLT	3233	6,166.31	6,734.64	125,591.66		125,591.66
AUH	359	359>AUH	3212	6,166.31	6,734.64	124,799.42		124,799.42
GRU	359	359>GRU	5051	6,166.31	6,734.64	197,143.70		197,143.70
BGY	733	733>BGY	776	2,245.17	2,467.81	14,012.11		14,012.11
ORK	733	733>ORK	125	2,245.17	2,467.81	3,003.15		3,003.15
LGG	734	734>LGG	465	2,583.23	2,825.40	9,099.04		9,099.04
KEF	734	734>KEF	811	2,583.23	2,825.40	15,622.92		15,622.92
LEJ	734	734>LEJ	688	2,583.23	2,825.40	13,315.08		13,315.08
OSL	738	738>OSL	699	2,384.78	2,597.65	12,608.13		12,608.13
ORY	738	738>ORY	431	2,384.78	2,597.65	8,202.54		8,202.54
FAO	738	738>FAO	987	2,384.78	2,597.65	17,295.64		17,295.64
DLM	738	738>DLM	1769	2,384.78	2,597.65	30,272.76		30,272.76
YYZ	738	738>YYZ	2849	2,384.78	2,597.65	48,585.89		48,585.89

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
KTW	738	738>KTW	952	2,384.78	2,597.65	16,729.40		16,729.40
LGG	744	744>LGG	465	11,295.90	12,311.46	31,286.73		31,286.73
EWR	764	764>EWR	2774	5,009.60	5,462.33	94,726.67		94,726.67
CLT	772	772>CLT	3233	6,301.31	6,830.57	132,570.50		132,570.50
DXB	779	779>DXB	3200	8,490.40	9,156.37	171,591.58		171,591.58
ADD	779	779>ADD	3434	8,490.40	9,156.37	183,878.21		183,878.21
IAD	779	779>IAD	2958	8,490.40	9,156.37	158,829.53		158,829.53
LGG	779	779>LGG	465	8,490.40	9,156.37	26,438.73		26,438.73
ADD	788	788>ADD	3434	4,751.01	5,161.14	105,851.65		105,851.65
YYZ	788	788>YYZ	2849	4,751.01	5,161.14	88,129.64		88,129.64
ORD	788	788>ORD	3192	4,751.01	5,161.14	98,572.10		98,572.10
BOS	788	788>BOS	2600	4,751.01	5,161.14	80,433.82		80,433.82
MSP	788	788>MSP	3246	4,751.01	5,161.14	100,196.46		100,196.46
PEK	788	788>PEK	4476	4,751.01	5,161.14	137,714.35		137,714.35
SFO	788	788>SFO	4430	4,751.01	5,161.14	136,331.00		136,331.00
MBJ	788	788>MBJ	3867	4,751.01	5,161.14	119,259.99		119,259.99

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
DFW	789	789>DFW	3885	4,751.01	5,161.14	128,739.19		128,739.19
ORD	789	789>ORD	3192	4,751.01	5,161.14	105,188.08		105,188.08
PHL	789	789>PHL	2844	4,751.01	5,161.14	93,931.52		93,931.52
YUL	789	789>YUL	2583	4,751.01	5,161.14	85,321.79		85,321.79
YVR	789	789>YVR	3881	4,751.01	5,161.14	128,596.34		128,596.34
AUH	789	789>AUH	3212	4,751.01	5,161.14	105,824.60		105,824.60
DOH	789	789>DOH	3065	4,751.01	5,161.14	101,146.23		101,146.23
DEL	789	789>DEL	3827	4,751.01	5,161.14	126,667.94		126,667.94
CGN	789	789>CGN	518	4,751.01	5,161.14	18,998.54		18,998.54
SNN	789	789>SNN	105	4,751.01	5,161.14	5,931.76	4,982.67	4,982.67
YYZ	789	789>YYZ	2849	4,751.01	5,161.14	94,096.45		94,096.45
EWR	789	789>EWR	2774	4,751.01	5,161.14	91,622.40		91,622.40
IAD	789	789>IAD	2958	4,751.01	5,161.14	97,692.09		97,692.09
JFK	789	789>JFK	2763	4,751.01	5,161.14	91,259.53		91,259.53
OTP	797	797>OTP	1370	3,098.84	3,385.93	28,451.52		28,451.52
CLJ	797	797>CLJ	1213	3,098.84	3,385.93	25,292.91		25,292.91

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
IAS	797	797>IAS	1342	3,098.84	3,385.93	27,888.20		27,888.20
KEF	797	797>KEF	811	3,098.84	3,385.93	17,284.04		17,284.04
REU	797	797>REU	796	3,098.84	3,385.93	16,988.52		16,988.52
LGW	797	797>LGW	262	3,098.84	3,385.93	6,402.32		6,402.32
SPU	797	797>SPU	1071	3,098.84	3,385.93	22,436.08		22,436.08
LPL	797	797>LPL	123	3,098.84	3,385.93	3,624.14	3,566.15	3,566.15
BRU	797	797>BRU	425	3,098.84	3,385.93	9,532.46		9,532.46
KRK	797	797>KRK	986	3,098.84	3,385.93	20,731.84		20,731.84
LUX	797	797>LUX	519	3,098.84	3,385.93	11,361.03		11,361.03
NCE	797	797>NCE	793	3,098.84	3,385.93	16,929.41		16,929.41
RIX	797	797>RIX	1052	3,098.84	3,385.93	22,053.82		22,053.82
LCJ	797	797>LCJ	940	3,098.84	3,385.93	19,825.56		19,825.56
BIQ	797	797>BIQ	627	3,098.84	3,385.93	13,568.35		13,568.35
CCF	797	797>CCF	701	3,098.84	3,385.93	15,080.77		15,080.77
NTE	797	797>NTE	417	3,098.84	3,385.93	9,378.83		9,378.83
TLS	797	797>TLS	661	3,098.84	3,385.93	14,263.25		14,263.25

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
STN	797	797>STN	255	3,098.84	3,385.93	5,641.62		5,641.62
BVA	797	797>BVA	394	3,098.84	3,385.93	8,937.16		8,937.16
TUF	797	797>TUF	448	3,098.84	3,385.93	9,974.13		9,974.13
PIS	797	797>PIS	483	3,098.84	3,385.93	10,646.25		10,646.25
AMS	797	797>AMS	406	3,098.84	3,385.93	9,167.60		9,167.60
PFO	797	797>PFO	1980	3,098.84	3,385.93	41,358.23		41,358.23
BGY	797	797>BGY	776	3,098.84	3,385.93	16,594.49		16,594.49
ATH	797	797>ATH	1555	3,098.84	3,385.93	32,246.15		32,246.15
DLM	797	797>DLM	1769	3,098.84	3,385.93	36,834.35		36,834.35
LDE	797	797>LDE	664	3,098.84	3,385.93	14,324.56		14,324.56
KTW	797	797>KTW	952	3,098.84	3,385.93	20,061.98		20,061.98
MAN	797	797>MAN	144	3,098.84	3,385.93	4,000.90		4,000.90
GLA	797	797>GLA	161	3,098.84	3,385.93	4,338.00		4,338.00
SOF	797	797>SOF	1343	3,098.84	3,385.93	27,908.32		27,908.32
GOT	797	797>GOT	679	3,098.84	3,385.93	14,631.13		14,631.13
NYO	797	797>NYO	838	3,098.84	3,385.93	17,815.99		17,815.99

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
BJV	797	797>BJV	1708	3,098.84	3,385.93	35,526.50		35,526.50
BCN	797	797>BCN	802	3,098.84	3,385.93	17,106.73		17,106.73
BOD	797	797>BOD	560	3,098.84	3,385.93	12,198.99		12,198.99
BHX	797	797>BHX	174	3,098.84	3,385.93	4,595.79		4,595.79
PMI	797	797>PMI	911	3,098.84	3,385.93	19,254.21		19,254.21
FAO	797	797>FAO	987	3,098.84	3,385.93	20,751.54		20,751.54
GRO	797	797>GRO	781	3,098.84	3,385.93	16,692.99		16,692.99
AGP	797	797>AGP	1008	3,098.84	3,385.93	21,168.61		21,168.61
ALC	797	797>ALC	939	3,098.84	3,385.93	19,805.86		19,805.86
LPA	797	797>LPA	1581	3,098.84	3,385.93	32,803.59		32,803.59
SDR	797	797>SDR	608	3,098.84	3,385.93	13,180.02		13,180.02
MLA	797	797>MLA	1368	3,098.84	3,385.93	28,411.29		28,411.29
CHQ	797	797>CHQ	1669	3,098.84	3,385.93	34,690.33		34,690.33
BRI	797	797>BRI	1186	3,098.84	3,385.93	24,749.71		24,749.71
EDI	797	797>EDI	182	3,098.84	3,385.93	4,754.42		4,754.42
HAM	797	797>HAM	581	3,098.84	3,385.93	12,628.19		12,628.19

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
BER	797	797>BER	720	3,098.84	3,385.93	15,469.10		15,469.10
FKB	797	797>FKB	609	3,098.84	3,385.93	13,200.46		13,200.46
IBZ	797	797>IBZ	928	3,098.84	3,385.93	19,589.14		19,589.14
KBP	797	797>KBP	1378	3,098.84	3,385.93	28,612.47		28,612.47
TSF	797	797>TSF	856	3,098.84	3,385.93	18,170.62		18,170.62
RIX	223	223>RIX	1052	1,974.16	2,157.74	16,245.89		16,245.89
ZRH	223	223>ZRH	670	1,974.16	2,157.74	10,723.45		10,723.45
GVA	223	223>GVA	644	1,974.16	2,157.74	10,338.06		10,338.06
CDG	223	223>CDG	425	1,974.16	2,157.74	7,173.35		7,173.35
HEL	223	223>HEL	1096	1,974.16	2,157.74	16,888.64		16,888.64
ZRH	295	295>ZRH	670	161.51	180.56	2,462.18		2,462.18
AMS	295	295>AMS	406	161.51	180.56	1,494.45		1,494.45
LCY	295	295>LCY	259	161.51	180.56	958.85		958.85
IAS	319	319>IAS	1342	1,986.18	2,169.76	20,267.32		20,267.32
CDG	319	319>CDG	425	1,986.18	2,169.76	7,197.99		7,197.99
HEL	319	319>HEL	1096	1,986.18	2,169.76	16,740.49		16,740.49

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
LHR	319	319>LHR	243	1,986.18	2,169.76	4,707.12		4,707.12
MUC	319	319>MUC	748	1,986.18	2,169.76	11,835.82		11,835.82
ARN	320	320>ARN	880	2,367.82	2,570.93	15,026.68		15,026.68
ATH	320	320>ATH	1555	2,367.82	2,570.93	25,946.51		25,946.51
EDI	320	320>EDI	182	2,367.82	2,570.93	3,907.92		3,907.92
STN	320	320>STN	255	2,367.82	2,570.93	5,036.45		5,036.45
ZAD	320	320>ZAD	1018	2,367.82	2,570.93	17,225.42		17,225.42
ZAG	320	320>ZAG	981	2,367.82	2,570.93	1,631.74		1,631.74
CFU	320	320>CFU	1353	2,367.82	2,570.93	22,655.04		22,655.04
ATH	320	320>ATH	1555	2,367.82	2,570.93	25,946.51		25,946.51
CDG	320	320>CDG	425	2,367.82	2,570.93	7,683.93		7,683.93
LHR	320	320>LHR	243	2,367.82	2,570.93	4,853.89		4,853.89
MAN	320	320>MAN	144	2,367.82	2,570.93	3,268.62		3,268.62
LGW	320	320>LGW	262	2,367.82	2,570.93	5,145.47		5,145.47
BHX	320	320>BHX	174	2,367.82	2,570.93	3,773.33		3,773.33
BER	320	320>BER	720	2,367.82	2,570.93	12,467.70		12,467.70

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
MUC	320	320>MUC	748	2,367.82	2,570.93	12,927.89		12,927.89
BOJ	320	320>BOJ	1491	2,367.82	2,570.93	24,891.71		24,891.71
HAM	320	320>HAM	581	2,367.82	2,570.93	10,183.19		10,183.19
FCO	320	320>FCO	1020	2,367.82	2,570.93	17,257.83		17,257.83
LIN	320	320>LIN	772	2,367.82	2,570.93	13,310.38		13,310.38
MXP	320	320>MXP	748	2,367.82	2,570.93	12,927.89		12,927.89
NAP	320	320>NAP	1122	2,367.82	2,570.93	18,911.03		18,911.03
DBV	320	320>DBV	1175	2,367.82	2,570.93	19,770.04		19,770.04
LIS	320	320>LIS	887	2,367.82	2,570.93	15,137.92		15,137.92
FAO	320	320>FAO	987	2,367.82	2,570.93	16,727.08		16,727.08
BOD	320	320>BOD	560	2,367.82	2,570.93	9,838.05		9,838.05
NCE	320	320>NCE	793	2,367.82	2,570.93	13,644.10		13,644.10
LYS	320	320>LYS	639	2,367.82	2,570.93	11,136.44		11,136.44
BCN	320	320>BCN	802	2,367.82	2,570.93	13,787.13		13,787.13
AGP	320	320>AGP	1008	2,367.82	2,570.93	17,063.34		17,063.34
MAD	320	320>MAD	784	2,367.82	2,570.93	13,501.08		13,501.08

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
AMS	320	320>AMS	406	2,367.82	2,570.93	7,388.03		7,388.03
BRU	320	320>BRU	425	2,367.82	2,570.93	7,683.93		7,683.93
FRA	320	320>FRA	588	2,367.82	2,570.93	10,298.24		10,298.24
GVA	320	320>GVA	644	2,367.82	2,570.93	11,218.62		11,218.62
DUS	320	320>DUS	496	2,367.82	2,570.93	8,789.64		8,789.64
BIO	320	320>BIO	622	2,367.82	2,570.93	10,857.04		10,857.04
ACE	320	320>ACE	1503	2,367.82	2,570.93	25,087.16		25,087.16
KIV	320	320>KIV	1397	2,367.82	2,570.93	23,368.18		23,368.18
CLJ	320	320>CLJ	1213	2,367.82	2,570.93	20,385.94		20,385.94
CTA	320	320>CTA	1305	2,367.82	2,570.93	21,877.06		21,877.06
ALC	320	320>ALC	939	2,367.82	2,570.93	15,964.29		15,964.29
LPA	320	320>LPA	1581	2,367.82	2,570.93	26,376.18		26,376.18
VRN	320	320>VRN	824	2,367.82	2,570.93	14,136.75		14,136.75
PGF	320	320>PGF	738	2,367.82	2,570.93	12,763.54		12,763.54
TLS	320	320>TLS	661	2,367.82	2,570.93	11,498.02		11,498.02
ORK	320	320>ORK	125	2,367.82	2,570.93	2,948.97		2,948.97

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
RMO	320	320>RMO	1397	2,367.82	2,570.93	23,368.18		23,368.18
ORY	320	320>ORY	431	2,367.82	2,570.93	7,777.37		7,777.37
DUS	321	321>DUS	496	3,098.84	3,385.93	10,895.89		10,895.89
MAD	321	321>MAD	784	3,098.84	3,385.93	16,752.10		16,752.10
VIE	321	321>VIE	922	3,098.84	3,385.93	19,470.93		19,470.93
CGN	32A	32A>CGN	518	2,367.82	2,570.93	9,147.77		9,147.77
DUS	32A	32A>DUS	496	2,367.82	2,570.93	8,789.64		8,789.64
MUC	32A	32A>MUC	748	2,367.82	2,570.93	12,927.89		12,927.89
FRA	32A	32A>FRA	588	2,367.82	2,570.93	10,298.24		10,298.24
LHR	32A	32A>LHR	243	2,367.82	2,570.93	4,853.89		4,853.89
BCN	32A	32A>BCN	802	2,367.82	2,570.93	13,787.13		13,787.13
CFU	32A	32A>CFU	1353	2,367.82	2,570.93	22,655.04		22,655.04
REU	32A	32A>REU	796	2,367.82	2,570.93	13,691.78		13,691.78
TFS	32A	32A>TFS	1589	2,367.82	2,570.93	26,508.39		26,508.39
CLJ	32A	32A>CLJ	1213	2,367.82	2,570.93	20,385.94		20,385.94
OTP	32A	32A>OTP	1370	2,367.82	2,570.93	22,930.57		22,930.57

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
KIV	32A	32A>KIV	1397	2,367.82	2,570.93	23,368.18		23,368.18
ORY	32B	32B>ORY	431	3,098.84	3,385.93	9,647.68		9,647.68
RMO	32B	32B>RMO	1397	3,098.84	3,385.93	28,994.72		28,994.72
ZRH	32B	32B>ZRH	670	3,098.84	3,385.93	14,447.19		14,447.19
IST	32B	32B>IST	1596	3,098.84	3,385.93	33,125.19		33,125.19
BCN	32B	32B>BCN	802	3,098.84	3,385.93	17,106.73		17,106.73
ATH	32N	32N>ATH	1555	1,903.81	2,081.53	22,361.29		22,361.29
LHR	32N	32N>LHR	243	1,903.81	2,081.53	4,336.73		4,336.73
STN	32N	32N>STN	255	1,903.81	2,081.53	12,053.15		12,053.15
KEF	32N	32N>KEF	811	1,903.81	2,081.53	13,567.22		13,567.22
CPH	32N	32N>CPH	673	1,903.81	2,081.53	10,135.64		10,135.64
ARN	32N	32N>ARN	880	1,903.81	2,081.53	12,997.70		12,997.70
MAN	32N	32N>MAN	144	1,903.81	2,081.53	2,903.37		2,903.37
LGW	32N	32N>LGW	262	1,903.81	2,081.53	4,585.82		4,585.82
BHX	32N	32N>BHX	174	1,903.81	2,081.53	3,368.85		3,368.85
MUC	32N	32N>MUC	748	1,903.81	2,081.53	11,190.00		11,190.00

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
MXP	32N	32N>MXP	748	1,903.81	2,081.53	11,190.00		11,190.00
CDG	32N	32N>CDG	425	1,903.81	2,081.53	6,721.11		6,721.11
LYS	32N	32N>LYS	639	1,903.81	2,081.53	9,657.67		9,657.67
ZZF	32N	32N>ZZF	0	1,903.81	2,081.53	43,326.01		43,326.01
ZRH	32N	32N>ZRH	670	1,903.81	2,081.53	10,093.47		10,093.47
SPU	32N	32N>SPU	1071	1,903.81	2,081.53	15,626.80		15,626.80
PSA	32N	32N>PSA	881	1,903.81	2,081.53	13,011.39		13,011.39
BER	32N	32N>BER	720	1,903.81	2,081.53	10,796.37		10,796.37
HAM	32N	32N>HAM	581	1,903.81	2,081.53	8,842.30		8,842.30
LIN	32N	32N>LIN	772	1,903.81	2,081.53	11,519.28		11,519.28
FCO	32N	32N>FCO	1020	1,903.81	2,081.53	14,918.26		14,918.26
NAP	32N	32N>NAP	1122	1,903.81	2,081.53	16,335.34		16,335.34
DBV	32N	32N>DBV	1175	1,903.81	2,081.53	17,071.66		17,071.66
VCE	32N	32N>VCE	866	1,903.81	2,081.53	12,806.06		12,806.06
BCN	32N	32N>BCN	802	1,903.81	2,081.53	11,929.95		11,929.95
DUS	32N	32N>DUS	496	1,903.81	2,081.53	7,651.20		7,651.20

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
CGN	32N	32N>CGN	518	1,903.81	2,081.53	7,956.65		7,956.65
SCQ	32N	32N>SCQ	638	1,903.81	2,081.53	9,643.61		9,643.61
NTE	32N	32N>NTE	417	1,903.81	2,081.53	6,616.31		6,616.31
ACE	32N	32N>ACE	1503	1,903.81	2,081.53	21,629.09		21,629.09
LIS	32N	32N>LIS	887	1,903.81	2,081.53	13,093.53		13,093.53
AGP	32N	32N>AGP	1008	1,903.81	2,081.53	14,751.55		14,751.55
ALC	32N	32N>ALC	939	1,903.81	2,081.53	13,805.37		13,805.37
BOJ	32N	32N>BOJ	1491	1,903.81	2,081.53	21,461.81		21,461.81
FAO	32N	32N>FAO	987	1,903.81	2,081.53	14,462.44		14,462.44
BIO	32N	32N>BIO	622	1,903.81	2,081.53	9,418.68		9,418.68
VIE	32N	32N>VIE	922	1,903.81	2,081.53	13,572.65		13,572.65
AMS	32N	32N>AMS	406	1,903.81	2,081.53	6,472.21		6,472.21
MAD	32N	32N>MAD	784	1,903.81	2,081.53	11,683.55		11,683.55
BRU	32N	32N>BRU	425	1,903.81	2,081.53	6,721.11		6,721.11
FRA	32N	32N>FRA	588	1,903.81	2,081.53	8,940.71		8,940.71
TFS	32N	32N>TFS	1589	1,903.81	2,081.53	22,840.04		22,840.04

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
NCE	32N	32N>NCE	793	1,903.81	2,081.53	11,806.75		11,806.75
NCL	32N	32N>NCL	188	1,903.81	2,081.53	3,586.07		3,586.07
BOD	32N	32N>BOD	560	1,903.81	2,081.53	8,547.08		8,547.08
GVA	32N	32N>GVA	644	1,903.81	2,081.53	9,727.96		9,727.96
PMI	32N	32N>PMI	911	1,903.81	2,081.53	13,422.07		13,422.07
KIV	32N	32N>KIV	1397	1,903.81	2,081.53	20,155.88		20,155.88
PRG	32N	32N>PRG	788	1,903.81	2,081.53	11,738.30		11,738.30
LPA	32N	32N>LPA	1581	1,903.81	2,081.53	22,727.39		22,727.39
ADB	32N	32N>ADB	1647	1,903.81	2,081.53	23,656.73		23,656.73
ZAG	32N	32N>ZAG	981	1,903.81	2,081.53	14,380.31		14,380.31
AGA	32N	32N>AGA	1392	1,903.81	2,081.53	20,086.42		20,086.42
BLQ	32N	32N>BLQ	871	1,903.81	2,081.53	12,874.50		12,874.50
CFU	32N	32N>CFU	1353	1,903.81	2,081.53	19,544.59		19,544.59
REU	32N	32N>REU	796	1,903.81	2,081.53	11,847.82		11,847.82
CLJ	32N	32N>CLJ	1213	1,903.81	2,081.53	17,599.59		17,599.59
INN	32N	32N>INN	769	1,903.81	2,081.53	11,478.21		11,478.21

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
VLC	32N	32N>VLC	869	1,903.81	2,081.53	12,847.12		12,847.12
CAI	32N	32N>CAI	2152	1,903.81	2,081.53	30,708.81		30,708.81
OSL	32N	32N>OSL	699	1,903.81	2,081.53	10,501.15		10,501.15
STR	32N	32N>STR	650	1,903.81	2,081.53	9,812.31		9,812.31
SAW	32N	32N>SAW	1616	1,903.81	2,081.53	23,220.22		23,220.22
ORY	32N	32N>ORY	431	1,903.81	2,081.53	6,799.71		6,799.71
CLE	32Q	32Q>CLE	3012	2,166.88	2,359.84	51,183.62		51,183.62
EWR	32Q	32Q>EWR	2774	2,166.88	2,359.84	47,128.80		47,128.80
PHL	32Q	32Q>PHL	2844	2,166.88	2,359.84	48,328.84		48,328.84
IAD	32Q	32Q>IAD	2958	2,166.88	2,359.84	50,283.20		50,283.20
YYZ	32Q	32Q>YYZ	2849	2,166.88	2,359.84	48,414.56		48,414.56
LHR	32Q	32Q>LHR	243	2,166.88	2,359.84	4,948.24		4,948.24
IST	32Q	32Q>IST	1596	2,166.88	2,359.84	27,382.43		27,382.43
BOS	32Q	32Q>BOS	2600	2,166.88	2,359.84	44,145.83		44,145.83
JFK	32Q	32Q>JFK	2763	2,166.88	2,359.84	46,940.22		46,940.22
FAO	32Q	32Q>FAO	987	2,166.88	2,359.84	17,209.50		17,209.50

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
IND	32Q	32Q>IND	3230	2,166.88	2,359.84	54,460.78		54,460.78
CDG	32Q	32Q>CDG	425	2,166.88	2,359.84	7,888.93		7,888.93
DTW	32Q	32Q>DTW	3031	2,166.88	2,359.84	51,469.25		51,469.25
TLV	32Q	32Q>TLV	2181	2,166.88	2,359.84	37,187.94		37,187.94
VIE	32Q	32Q>VIE	922	2,166.88	2,359.84	16,140.78		16,140.78
PIT	32Q	32Q>PIT	2993	2,166.88	2,359.84	50,883.22		50,883.22
YUL	32Q	32Q>YUL	2583	2,166.88	2,359.84	43,854.39		43,854.39
AMS	32Q	32Q>AMS	406	2,166.88	2,359.84	7,583.20		7,583.20
FRA	32Q	32Q>FRA	588	2,166.88	2,359.84	10,580.17		10,580.17
ORY	32Q	32Q>ORY	431	2,166.88	2,359.84	7,985.48		7,985.48
RDU	32Q	32Q>RDU	3129	2,166.88	2,359.84	52,942.47		52,942.47
DEL	32Q	32Q>DEL	3827	2,166.88	2,359.84	64,953.47		64,953.47
BRU	32Q	32Q>BRU	425	2,166.88	2,359.84	7,888.93		7,888.93
KIV	32Q	32Q>KIV	1397	2,166.88	2,359.84	24,042.14		24,042.14
FCO	32Q	32Q>FCO	1020	2,166.88	2,359.84	17,756.69		17,756.69
CVG	32Q	32Q>CVG	3203	2,166.88	2,359.84	54,054.90		54,054.90

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
MAN	32Q	32Q>MAN	144	2,166.88	2,359.84	3,246.34		3,246.34
CPT	32Q	32Q>CPT	5386	2,166.88	2,359.84	68,357.30	92,043.10	92,043.10
BDL	32Q	32Q>BDL	2675	3,098.84	3,385.93	55,950.68		55,950.68
MUC	32Q	32Q>MUC	748	3,098.84	3,385.93	16,041.37		16,041.37
OTP	32Q	32Q>OTP	1370	3,098.84	3,385.93	28,451.52		28,451.52
MSP	32Q	32Q>MSP	3246	3,098.84	3,385.93	68,479.37		68,479.37
EDI	32Q	32Q>EDI	182	3,098.84	3,385.93	4,754.42		4,754.42
MAD	32Q	32Q>MAD	784	3,098.84	3,385.93	16,752.10		16,752.10
ZRH	32Q	32Q>ZRH	670	3,098.84	3,385.93	14,447.19		14,447.19
AGP	32Q	32Q>AGP	1008	3,098.84	3,385.93	21,168.61		21,168.61
LGW	32Q	32Q>LGW	262	3,098.84	3,385.93	6,402.32		6,402.32
DUS	32Q	32Q>DUS	496	3,098.84	3,385.93	10,895.89		10,895.89
BCN	32Q	32Q>BCN	802	3,098.84	3,385.93	17,106.73		17,106.73
AGA	32X	32X>AGA	1392	3,098.84	3,385.93	28,894.13		28,894.13
ATH	32X	32X>ATH	1555	3,098.84	3,385.93	32,246.15		32,246.15
MAN	32X	32X>MAN	144	3,098.84	3,385.93	4,000.90		4,000.90

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
LGW	32X	32X>LGW	262	3,098.84	3,385.93	6,402.32		6,402.32
BHX	32X	32X>BHX	174	3,098.84	3,385.93	4,595.79		4,595.79
MXP	32X	32X>MXP	748	3,098.84	3,385.93	16,041.37		16,041.37
CDG	32X	32X>CDG	425	3,098.84	3,385.93	9,532.46		9,532.46
LYS	32X	32X>LYS	639	3,098.84	3,385.93	13,813.61		13,813.61
MUC	32X	32X>MUC	748	3,098.84	3,385.93	16,041.37		16,041.37
FRA	32X	32X>FRA	588	3,098.84	3,385.93	12,771.26		12,771.26
LEJ	32X	32X>LEJ	688	2,367.82	2,570.93	11,941.77		11,941.77
DEL	32Y	32Y>DEL	3827	3,098.84	3,385.93	73,397.30	80,254.71	80,254.71
BOS	32Y	32Y>BOS	2600	3,098.84	3,385.93	54,158.60		54,158.60
JFK	32Y	32Y>JFK	2763	3,098.84	3,385.93	58,053.38		58,053.38
CVG	32Y	32Y>CVG	3203	3,098.84	3,385.93	67,646.80		67,646.80
DTW	32Y	32Y>DTW	3031	3,098.84	3,385.93	64,316.55		64,316.55
YUL	32Y	32Y>YUL	2583	3,098.84	3,385.93	53,752.40		53,752.40
EWR	32Y	32Y>EWR	2774	3,098.84	3,385.93	58,316.21		58,316.21
PHL	32Y	32Y>PHL	2844	3,098.84	3,385.93	59,988.82		59,988.82

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
IAD	32Y	32Y>IAD	2958	3,098.84	3,385.93	62,712.77		62,712.77
LHR	32Y	32Y>LHR	243	3,098.84	3,385.93	6,023.41		6,023.41
CDG	32Y	32Y>CDG	425	3,098.84	3,385.93	9,532.46		9,532.46
AMS	32Y	32Y>AMS	406	3,098.84	3,385.93	9,167.60		9,167.60
BRU	32Y	32Y>BRU	425	3,098.84	3,385.93	9,532.46		9,532.46
FRA	32Y	32Y>FRA	588	3,098.84	3,385.93	12,771.26		12,771.26
IST	32Y	32Y>IST	1596	3,098.84	3,385.93	33,125.19		33,125.19
ORD	332	332>ORD	3192	6,302.13	6,829.44	116,225.22		116,225.22
SEA	332	332>SEA	3945	6,302.13	6,829.44	143,225.83		143,225.83
EWR	332	332>EWR	2774	6,302.13	6,829.44	100,850.34		100,850.34
MSP	332	332>MSP	3246	6,302.13	6,829.44	118,118.99		118,118.99
PEK	333	333>PEK	4476	6,302.13	6,829.44	156,376.69		156,376.69
EMA	33F	33F>EMA	182	6,302.13	6,829.44	9,151.27		9,151.27
SNN	33F	33F>SNN	105	6,302.13	6,829.44	6,752.90	5,672.43	5,672.43
CDG	33F	33F>CDG	425	6,302.13	6,829.44	17,601.76		17,601.76
ATL	359	359>ATL	3422	6,166.31	6,734.64	132,721.76		132,721.76

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
YYZ	359	359>YYZ	2849	6,166.31	6,734.64	110,942.23		110,942.23
ATL	35N	35N>ATL	3422	6,302.13	6,829.44	118,019.05		118,019.05
BOS	35N	35N>BOS	2600	6,302.13	6,829.44	91,628.58		91,628.58
JFK	35N	35N>JFK	2763	6,302.13	6,829.44	97,346.28		97,346.28
DXB	35N	35N>DXB	3200	6,302.13	6,829.44	111,517.24		111,517.24
STN	738	738>STN	255	2,384.78	2,597.65	5,457.29		5,457.29
CRL	738	738>CRL	436	2,384.78	2,597.65	8,280.52		8,280.52
IST	738	738>IST	1596	2,384.78	2,597.65	27,365.54		27,365.54
CDG	738F	738F>CDG	425	2,384.78	2,597.65	8,108.95		8,108.95
LGG	738F	738F>LGG	465	2,384.78	2,597.65	8,732.87		8,732.87
ORK	738F	738F>ORK	125	2,384.78	2,597.65	3,139.72		3,139.72
KEF	738F	738F>KEF	811	2,384.78	2,597.65	14,448.26		14,448.26
BGY	738F	738F>BGY	776	2,384.78	2,597.65	13,882.02		13,882.02
EMA	738F	738F>EMA	182	2,384.78	2,597.65	4,085.56		4,085.56
LEJ	738F	738F>LEJ	688	2,384.78	2,597.65	12,424.10		12,424.10
BRU	738F	738F>BRU	425	2,384.78	2,597.65	8,108.95		8,108.95

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
SNN	738F	738F>SNN	105	2,384.78	2,597.65	3,139.72	2,637.36	2,637.36
CDG	73F	73F>CDG	425	2,775.08	3,063.54	8,380.14		8,380.14
STN	73H	73H>STN	255	2,384.78	2,597.65	5,457.29		5,457.29
BOD	73H	73H>BOD	560	2,384.78	2,597.65	10,282.61		10,282.61
CRL	73H	73H>CRL	436	2,384.78	2,597.65	8,280.52		8,280.52
BUD	73H	73H>BUD	1036	2,384.78	2,597.65	18,099.69		18,099.69
LGW	73H	73H>LGW	262	2,384.78	2,597.65	5,566.48		5,566.48
LPL	73H	73H>LPL	123	2,384.78	2,597.65	3,139.72	3,089.48	3,089.48
BRU	73H	73H>BRU	425	2,384.78	2,597.65	8,108.95		8,108.95
MXP	73H	73H>MXP	748	2,384.78	2,597.65	13,427.92		13,427.92
LBA	73H	73H>LBA	167	2,384.78	2,597.65	3,836.65		3,836.65
NCL	73H	73H>NCL	188	2,384.78	2,597.65	4,185.12		4,185.12
GDN	73H	73H>GDN	875	2,384.78	2,597.65	15,483.67		15,483.67
WRO	73H	73H>WRO	861	2,384.78	2,597.65	15,257.17		15,257.17
LUX	73H	73H>LUX	519	2,384.78	2,597.65	9,596.67		9,596.67
EIN	73H	73H>EIN	443	2,384.78	2,597.65	8,389.71		8,389.71

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
POZ	73H	73H>POZ	837	2,384.78	2,597.65	14,868.89		14,868.89
LRH	73H	73H>LRH	477	2,384.78	2,597.65	8,920.04		8,920.04
KUN	73H	73H>KUN	1065	2,384.78	2,597.65	18,577.98		18,577.98
TUF	73H	73H>TUF	448	2,384.78	2,597.65	8,467.70		8,467.70
AMS	73H	73H>AMS	406	2,384.78	2,597.65	7,812.59		7,812.59
LTN	73H	73H>LTN	235	2,384.78	2,597.65	5,080.79		5,080.79
HHN	73H	73H>HHN	546	2,384.78	2,597.65	10,048.39		10,048.39
BCN	73H	73H>BCN	802	2,384.78	2,597.65	14,302.65		14,302.65
AGA	73H	73H>AGA	1392	2,384.78	2,597.65	23,971.08		23,971.08
VRN	73H	73H>VRN	824	2,384.78	2,597.65	14,658.58		14,658.58
BTS	73H	73H>BTS	943	2,384.78	2,597.65	16,583.80		16,583.80
BGY	73H	73H>BGY	776	2,384.78	2,597.65	13,882.02		13,882.02
BRS	73H	73H>BRS	179	2,384.78	2,597.65	4,035.78		4,035.78
SZZ	73H	73H>SZZ	756	2,384.78	2,597.65	13,558.45		13,558.45
EMA	73H	73H>EMA	182	2,384.78	2,597.65	4,085.56		4,085.56
MAN	73H	73H>MAN	144	2,384.78	2,597.65	3,455.00		3,455.00

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
GLA	73H	73H>GLA	161	2,384.78	2,597.65	3,737.09		3,737.09
PMI	73H	73H>PMI	911	2,384.78	2,597.65	16,066.09		16,066.09
CPH	73H	73H>CPH	673	2,384.78	2,597.65	12,173.14		12,173.14
CWL	73H	73H>CWL	162	2,384.78	2,597.65	3,753.68		3,753.68
BHX	73H	73H>BHX	174	2,384.78	2,597.65	3,952.81		3,952.81
KIR	73H	73H>KIR	140	2,384.78	2,597.65	3,388.62		3,388.62
BLL	73H	73H>BLL	555	2,384.78	2,597.65	10,198.96		10,198.96
FAO	73H	73H>FAO	987	2,384.78	2,597.65	17,295.64		17,295.64
AGP	73H	73H>AGP	1008	2,384.78	2,597.65	17,637.90		17,637.90
OPO	73H	73H>OPO	737	2,384.78	2,597.65	13,243.89		13,243.89
RDZ	73H	73H>RDZ	642	2,384.78	2,597.65	11,654.50		11,654.50
RMU	73H	73H>RMU	963	2,384.78	2,597.65	16,907.36		16,907.36
REU	73H	73H>REU	796	2,384.78	2,597.65	14,205.58		14,205.58
ACE	73H	73H>ACE	1503	2,384.78	2,597.65	25,802.70		25,802.70
LIS	73H	73H>LIS	887	2,384.78	2,597.65	15,677.81		15,677.81
VNO	73H	73H>VNO	1110	2,384.78	2,597.65	19,320.15		19,320.15

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
SVQ	73H	73H>SVQ	961	2,384.78	2,597.65	16,875.00		16,875.00
MAD	73H	73H>MAD	784	2,384.78	2,597.65	14,011.44		14,011.44
PRG	73H	73H>PRG	788	2,384.78	2,597.65	14,076.16		14,076.16
OTP	73H	73H>OTP	1370	2,384.78	2,597.65	23,608.24		23,608.24
VIE	73H	73H>VIE	922	2,384.78	2,597.65	16,244.05		16,244.05
ALC	73H	73H>ALC	939	2,384.78	2,597.65	16,519.08		16,519.08
SEA	73H	73H>SEA	3945	2,384.78	2,597.65	51,330.98	67,500.24	67,500.24
CGN	73H	73H>CGN	518	2,384.78	2,597.65	9,579.94		9,579.94
EDI	73H	73H>EDI	182	2,384.78	2,597.65	4,085.56		4,085.56
HAM	73H	73H>HAM	581	2,384.78	2,597.65	10,633.95		10,633.95
BER	73H	73H>BER	720	2,384.78	2,597.65	12,959.47		12,959.47
CIA	73H	73H>CIA	1030	2,384.78	2,597.65	18,000.74		18,000.74
TSF	73H	73H>TSF	856	2,384.78	2,597.65	15,176.28		15,176.28
PSA	73H	73H>PSA	881	2,384.78	2,597.65	15,580.74		15,580.74
ZZF	73H	73H>ZZF	0	2,384.78	2,597.65	51,330.98		51,330.98
ORY	73H	73H>ORY	431	2,384.78	2,597.65	8,202.54		8,202.54

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
DBV	73H	73H>DBV	1175	2,384.78	2,597.65	20,392.17		20,392.17
PFO	73H	73H>PFO	1980	2,384.78	2,597.65	33,818.57		33,818.57
SKG	73H	73H>SKG	1414	2,384.78	2,597.65	24,333.91		24,333.91
BVA	73H	73H>BVA	394	2,384.78	2,597.65	7,625.41		7,625.41
ATH	73H	73H>ATH	1555	2,384.78	2,597.65	26,676.54		26,676.54
NCE	73H	73H>NCE	793	2,384.78	2,597.65	14,157.05		14,157.05
CHQ	73H	73H>CHQ	1669	2,384.78	2,597.65	28,592.29		28,592.29
KRK	73H	73H>KRK	986	2,384.78	2,597.65	17,279.46		17,279.46
ADB	73H	73H>ADB	1647	2,384.78	2,597.65	28,222.58		28,222.58
AHO	73H	73H>AHO	969	2,384.78	2,597.65	17,004.43		17,004.43
BSL	73H	73H>BSL	632	2,384.78	2,597.65	11,487.20		11,487.20
CDT	73H	73H>CDT	846	2,384.78	2,597.65	15,014.50		15,014.50
FCO	73H	73H>FCO	1020	2,384.78	2,597.65	17,835.81		17,835.81
FCO	73H	73H>FCO	1020	2,384.78	2,597.65	17,835.81		17,835.81
FUE	73H	73H>FUE	1535	2,384.78	2,597.65	26,340.45		26,340.45
GOA	73H	73H>GOA	803	2,384.78	2,597.65	14,318.83		14,318.83

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
GRO	73H	73H>GRO	781	2,384.78	2,597.65	13,962.91		13,962.91
IST	73H	73H>IST	1596	2,384.78	2,597.65	27,365.54		27,365.54
NAP	73H	73H>NAP	1122	2,384.78	2,597.65	19,518.06		19,518.06
NQY	73H	73H>NQY	185	2,384.78	2,597.65	4,135.34		4,135.34
NTE	73H	73H>NTE	417	2,384.78	2,597.65	7,984.16		7,984.16
NTE	73H	73H>NTE	417	2,384.78	2,597.65	7,984.16		7,984.16
NUE	73H	73H>NUE	690	2,384.78	2,597.65	12,457.56		12,457.56
OVD	73H	73H>OVD	592	2,384.78	2,597.65	10,817.99		10,817.99
SCQ	73H	73H>SCQ	638	2,384.78	2,597.65	11,587.58		11,587.58
SDR	73H	73H>SDR	608	2,384.78	2,597.65	11,085.67		11,085.67
SPU	73H	73H>SPU	1071	2,384.78	2,597.65	18,676.94		18,676.94
TFS	73H	73H>TFS	1589	2,384.78	2,597.65	27,247.91		27,247.91
TLS	73H	73H>TLS	661	2,384.78	2,597.65	11,972.38		11,972.38
VCE	73H	73H>VCE	866	2,384.78	2,597.65	15,338.06		15,338.06
FMM	73H	73H>FMM	707	2,384.78	2,597.65	12,741.98		12,741.98
OSL	73H	73H>OSL	699	2,384.78	2,597.65	12,608.13		12,608.13

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
RBA	73H	73H>RBA	1162	2,384.78	2,597.65	20,177.77		20,177.77
MRS	73H	73H>MRS	753	2,384.78	2,597.65	13,509.91		13,509.91
WMI	73H	73H>WMI	989	2,384.78	2,597.65	17,328.00		17,328.00
CFU	73H	73H>CFU	1353	2,384.78	2,597.65	23,327.86		23,327.86
CDG	73K	73K>CDG	425	2,384.78	2,597.65	8,108.95		8,108.95
SNN	73K	73K>SNN	105	2,384.78	2,597.65	3,139.72	2,637.36	2,637.36
LEJ	73K	73K>LEJ	688	2,384.78	2,597.65	12,424.10		12,424.10
EMA	73K	73K>EMA	182	2,384.78	2,597.65	4,085.56		4,085.56
LGG	73P	73P>LGG	465	2,583.23	2,825.40	9,099.04		9,099.04
EMA	73P	73P>EMA	182	2,583.23	2,825.40	4,005.03		4,005.03
BRU	73P	73P>BRU	425	2,583.23	2,825.40	8,368.39		8,368.39
CGN	73P	73P>CGN	518	2,583.23	2,825.40	10,080.82		10,080.82
LUX	73W	73W>LUX	519	2,384.78	2,597.65	8,569.84		8,569.84
AGP	752	752>AGP	1008	3,940.65	4,292.19	24,898.61		24,898.61
AGP	752	752>AGP	1008	3,940.65	4,292.19	24,898.61		24,898.61
LEJ	75C	75C>LEJ	688	2,384.78	2,597.65	11,129.87		11,129.87

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
EMA	75F	75F>EMA	182	3,940.65	4,292.19	5,362.63		5,362.63
EMA	75V	75V>EMA	182	2,384.78	2,597.65	3,723.49		3,723.49
FAE	75V	75V>FAE	521	3,940.65	4,292.19	13,145.04		13,145.04
KEF	75W	75W>KEF	811	3,940.65	4,292.19	20,197.14		20,197.14
IAD	75W	75W>IAD	2958	3,940.65	4,292.19	72,419.15		72,419.15
EWR	75W	75W>EWR	2774	3,940.65	4,292.19	67,831.47		67,831.47
ORD	75W	75W>ORD	3192	3,940.65	4,292.19	78,377.70		78,377.70
IAD	764	764>IAD	2958	5,009.60	5,462.33	101,082.57		101,082.57
CDG	76F	76F>CDG	425	4,423.23	4,790.39	14,604.67		14,604.67
CGN	76V	76V>CGN	518	5,046.97	5,449.29	18,062.59		18,062.59
SNN	76V	76V>SNN	105	5,046.97	5,449.29	5,736.04	4,818.27	4,818.27
BOS	76W	76W>BOS	2600	5,046.97	5,449.29	83,611.85		83,611.85
MSP	76W	76W>MSP	3246	5,046.97	5,449.29	105,336.59		105,336.59
JFK	76W	76W>JFK	2763	5,046.97	5,449.29	88,883.17		88,883.17
CGN	76Y	76Y>CGN	518	5,046.97	5,449.29	18,062.59		18,062.59
EMA	76Y	76Y>EMA	182	5,046.97	5,449.29	7,684.40		7,684.40

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
SNN	76Y	76Y>SNN	105	4,423.23	4,790.39	5,386.00	4,524.24	4,524.24
CDG	76Y	76Y>CDG	425	5,046.97	5,449.29	15,147.70		15,147.70
EWR	772	772>EWR	2774	6,301.31	6,830.57	113,095.38		113,095.38
DFW	772	772>DFW	3885	6,301.31	6,830.57	159,216.39		159,216.39
DOH	77L	77L>DOH	3065	8,490.40	9,156.37	156,307.92		156,307.92
DXB	77W	77W>DXB	3200	8,490.40	9,156.37	171,591.58		171,591.58
ADD	77W	77W>ADD	3434	8,490.40	9,156.37	183,878.21		183,878.21
IAD	77W	77W>IAD	2958	8,490.40	9,156.37	158,829.53		158,829.53
AUH	77W	77W>AUH	3212	8,490.40	9,156.37	172,221.66		172,221.66
AUH	781	781>AUH	3212	4,751.01	5,161.14	105,824.60		105,824.60
DOH	788	788>DOH	3065	4,751.01	5,161.14	94,751.84		94,751.84
DOH	788	788>DOH	3065	4,751.01	5,161.14	94,751.84		94,751.84
PHL	788	788>PHL	2844	4,751.01	5,161.14	87,975.11		87,975.11
YUL	788	788>YUL	2583	4,751.01	5,161.14	79,908.41		79,908.41
EWR	788	788>EWR	2774	4,751.01	5,161.14	85,811.62		85,811.62
ATL	789	789>ATL	3422	4,751.01	5,161.14	112,507.98		112,507.98

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
YYC	789	789>YYC	3570	4,751.01	5,161.14	117,490.17		117,490.17
DFW	78N	78N>DFW	3885	4,751.01	5,161.14	119,820.24		119,820.24
ORD	78N	78N>ORD	3192	4,751.01	5,161.14	98,572.10		98,572.10
YVR	78N	78N>YVR	3881	4,751.01	5,161.14	119,695.74		119,695.74
DEL	78N	78N>DEL	3827	4,751.01	5,161.14	118,014.97		118,014.97
YYZ	78N	78N>YYZ	2849	4,751.01	5,161.14	88,129.64		88,129.64
YUL	78N	78N>YUL	2583	4,751.01	5,161.14	79,908.41		79,908.41
BOS	78N	78N>BOS	2600	4,751.01	5,161.14	80,433.82		80,433.82
ADD	78N	78N>ADD	3434	4,751.01	5,161.14	105,851.65		105,851.65
DOH	78N	78N>DOH	3065	4,751.01	5,161.14	94,751.84		94,751.84
SFO	78N	78N>SFO	4430	4,751.01	5,161.14	136,331.00		136,331.00
LUX	7M7	7M7>LUX	519	2,116.11	2,301.64	8,166.76		8,166.76
REU	7M8	7M8>REU	796	2,116.11	2,301.64	12,031.10		12,031.10
LGW	7M8	7M8>LGW	262	2,116.11	2,301.64	4,689.31		4,689.31
SKG	7M8	7M8>SKG	1414	2,116.11	2,301.64	20,534.44		20,534.44
LBA	7M8	7M8>LBA	167	2,116.11	2,301.64	3,237.34		3,237.34

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
NCL	7M8	7M8>NCL	188	2,116.11	2,301.64	3,545.17		3,545.17
KRK	7M8	7M8>KRK	986	2,116.11	2,301.64	14,616.79		14,616.79
NCE	7M8	7M8>NCE	793	2,116.11	2,301.64	11,990.27		11,990.27
RIX	7M8	7M8>RIX	1052	2,116.11	2,301.64	15,526.66		15,526.66
STN	7M8	7M8>STN	255	2,116.11	2,301.64	4,594.86		4,594.86
BVA	7M8	7M8>BVA	394	2,116.11	2,301.64	6,470.25		6,470.25
FMM	7M8	7M8>FMM	707	2,116.11	2,301.64	10,802.28		10,802.28
AMS	7M8	7M8>AMS	406	2,116.11	2,301.64	6,632.15		6,632.15
PFO	7M8	7M8>PFO	1980	2,116.11	2,301.64	28,491.21		28,491.21
BGY	7M8	7M8>BGY	776	2,116.11	2,301.64	11,758.92		11,758.92
LPL	7M8	7M8>LPL	123	2,116.11	2,301.64	2,621.68	2,579.73	2,579.73
ATH	7M8	7M8>ATH	1555	2,116.11	2,301.64	22,499.53		22,499.53
LDE	7M8	7M8>LDE	664	2,116.11	2,301.64	10,199.48		10,199.48
MAN	7M8	7M8>MAN	144	2,116.11	2,301.64	2,900.19		2,900.19
GLA	7M8	7M8>GLA	161	2,116.11	2,301.64	3,149.39		3,149.39
BCN	7M8	7M8>BCN	802	2,116.11	2,301.64	12,112.75		12,112.75

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
BHX	7M8	7M8>BHX	174	2,116.11	2,301.64	3,339.95		3,339.95
NAP	7M8	7M8>NAP	1122	2,116.11	2,301.64	16,495.01		16,495.01
GRO	7M8	7M8>GRO	781	2,116.11	2,301.64	11,826.96		11,826.96
AGP	7M8	7M8>AGP	1008	2,116.11	2,301.64	14,917.98		14,917.98
ALC	7M8	7M8>ALC	939	2,116.11	2,301.64	13,977.17		13,977.17
RMU	7M8	7M8>RMU	963	2,116.11	2,301.64	14,303.78		14,303.78
TFS	7M8	7M8>TFS	1589	2,116.11	2,301.64	22,978.86		22,978.86
ACE	7M8	7M8>ACE	1503	2,116.11	2,301.64	21,766.43		21,766.43
MLA	7M8	7M8>MLA	1368	2,116.11	2,301.64	19,898.09		19,898.09
CHQ	7M8	7M8>CHQ	1669	2,116.11	2,301.64	24,106.71		24,106.71
BRI	7M8	7M8>BRI	1186	2,116.11	2,301.64	17,380.37		17,380.37
RAK	7M8	7M8>RAK	1311	2,116.11	2,301.64	19,109.57		19,109.57
NUE	7M8	7M8>NUE	690	2,116.11	2,301.64	10,563.96		10,563.96
WMI	7M8	7M8>WMI	989	2,116.11	2,301.64	14,657.61		14,657.61
PDV	7M8	7M8>PDV	1417	2,116.11	2,301.64	20,575.94		20,575.94
BER	7M8	7M8>BER	720	2,116.11	2,301.64	10,984.53		10,984.53

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
IBZ	7M8	7M8>IBZ	928	2,116.11	2,301.64	13,827.47		13,827.47
CIA	7M8	7M8>CIA	1030	2,116.11	2,301.64	15,222.32		15,222.32
PMI	7M8	7M8>PMI	911	2,116.11	2,301.64	13,596.12		13,596.12
ZZF	7M8	7M8>ZZF	0	2,116.11	2,301.64	43,425.99		43,425.99
YYZ	7M8	7M8>YYZ	2849	2,116.11	2,301.64	41,054.99		41,054.99
OTP	7M8	7M8>OTP	1370	2,116.11	2,301.64	19,925.76		19,925.76
BCM	7M8	7M8>BCM	1336	2,116.11	2,301.64	19,455.41		19,455.41
CLJ	7M8	7M8>CLJ	1213	2,116.11	2,301.64	17,753.88		17,753.88
IAS	7M8	7M8>IAS	1342	2,116.11	2,301.64	19,538.42		19,538.42
KEF	7M8	7M8>KEF	811	2,116.11	2,301.64	12,235.23		12,235.23
CPH	7M8	7M8>CPH	673	2,116.11	2,301.64	10,325.65		10,325.65
EDI	7M8	7M8>EDI	182	2,116.11	2,301.64	3,457.22		3,457.22
BRS	7M8	7M8>BRS	179	2,116.11	2,301.64	3,413.24		3,413.24
HAM	7M8	7M8>HAM	581	2,116.11	2,301.64	9,035.92		9,035.92
EMA	7M8	7M8>EMA	182	2,116.11	2,301.64	3,457.22		3,457.22
LIS	7M8	7M8>LIS	887	2,116.11	2,301.64	13,269.51		13,269.51

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
KIR	7M8	7M8>KIR	140	2,116.11	2,301.64	2,841.55		2,841.55
SZZ	7M8	7M8>SZZ	756	2,116.11	2,301.64	11,486.74		11,486.74
FAO	7M8	7M8>FAO	987	2,116.11	2,301.64	14,630.39		14,630.39
TUF	7M8	7M8>TUF	448	2,116.11	2,301.64	7,198.82		7,198.82
LRH	7M8	7M8>LRH	477	2,116.11	2,301.64	7,590.08		7,590.08
CGN	7M8	7M8>CGN	518	2,116.11	2,301.64	8,152.74		8,152.74
OPO	7M8	7M8>OPO	737	2,116.11	2,301.64	11,222.85		11,222.85
VRN	7M8	7M8>VRN	824	2,116.11	2,301.64	12,412.15		12,412.15
SVQ	7M8	7M8>SVQ	961	2,116.11	2,301.64	14,276.56		14,276.56
BOD	7M8	7M8>BOD	560	2,116.11	2,301.64	8,741.53		8,741.53
VNO	7M8	7M8>VNO	1110	2,116.11	2,301.64	16,329.01		16,329.01
PSA	7M8	7M8>PSA	881	2,116.11	2,301.64	13,187.85		13,187.85
PRG	7M8	7M8>PRG	788	2,116.11	2,301.64	11,922.23		11,922.23
VIE	7M8	7M8>VIE	922	2,116.11	2,301.64	13,745.82		13,745.82
MAD	7M8	7M8>MAD	784	2,116.11	2,301.64	11,867.79		11,867.79
DLM	7M8	7M8>DLM	1769	2,116.11	2,301.64	25,516.52		25,516.52

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
CWL	7M8	7M8>CWL	162	2,116.11	2,301.64	3,164.04		3,164.04
BLL	7M8	7M8>BLL	555	2,116.11	2,301.64	8,671.43		8,671.43
CCF	7M8	7M8>CCF	701	2,116.11	2,301.64	10,718.17		10,718.17
BIQ	7M8	7M8>BIQ	627	2,116.11	2,301.64	9,680.78		9,680.78
SDR	7M8	7M8>SDR	608	2,116.11	2,301.64	9,414.43		9,414.43
SOF	7M8	7M8>SOF	1343	2,116.11	2,301.64	19,552.25		19,552.25
BJV	7M8	7M8>BJV	1708	2,116.11	2,301.64	24,656.53		24,656.53
KTW	7M8	7M8>KTW	952	2,116.11	2,301.64	14,154.08		14,154.08
FUE	7M8	7M8>FUE	1535	2,116.11	2,301.64	22,217.56		22,217.56
KBP	7M8	7M8>KBP	1378	2,116.11	2,301.64	20,036.43		20,036.43
SPU	7M8	7M8>SPU	1071	2,116.11	2,301.64	15,789.50		15,789.50
BLQ	7M8	7M8>BLQ	871	2,116.11	2,301.64	13,051.76		13,051.76
IST	7M8	7M8>IST	1596	2,116.11	2,301.64	23,077.55		23,077.55
BWI	7M8	7M8>BWI	2921	2,116.11	2,301.64	42,185.53		42,185.53
LUX	7M8	7M8>LUX	519	2,116.11	2,301.64	8,166.76		8,166.76
NTE	7M8	7M8>NTE	417	2,116.11	2,301.64	6,780.57		6,780.57

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
LEI	7M8	7M8>LEI	1008	2,116.11	2,301.64	14,917.98		14,917.98
BOH	7M8	7M8>BOH	228	2,116.11	2,301.64	4,172.62		4,172.62
CAG	7M8	7M8>CAG	1058	2,116.11	2,301.64	15,609.66		15,609.66
EIN	7M8	7M8>EIN	443	2,116.11	2,301.64	7,131.36		7,131.36
HHN	7M8	7M8>HHN	546	2,116.11	2,301.64	8,545.26		8,545.26
BRU	7M8	7M8>BRU	425	2,116.11	2,301.64	6,888.50		6,888.50
ORY	7M8	7M8>ORY	431	2,116.11	2,301.64	6,969.45		6,969.45
CRL	7M8	7M8>CRL	436	2,116.11	2,301.64	7,036.91		7,036.91
AGA	7M8	7M8>AGA	1392	2,116.11	2,301.64	20,230.10		20,230.10
RDZ	7M8	7M8>RDZ	642	2,116.11	2,301.64	9,891.06		9,891.06
MXP	7M8	7M8>MXP	748	2,116.11	2,301.64	11,377.05		11,377.05
OSL	7M8	7M8>OSL	699	2,116.11	2,301.64	10,690.13		10,690.13
LTN	7M8	7M8>LTN	235	2,116.11	2,301.64	4,285.50		4,285.50
TSF	7M8	7M8>TSF	856	2,116.11	2,301.64	12,847.63		12,847.63
KUN	7M8	7M8>KUN	1065	2,116.11	2,301.64	15,706.50		15,706.50
BUD	7M8	7M8>BUD	1036	2,116.11	2,301.64	15,305.32		15,305.32

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
WRO	7M8	7M8>WRO	861	2,116.11	2,301.64	12,915.68		12,915.68
BTS	7M8	7M8>BTS	943	2,116.11	2,301.64	14,031.60		14,031.60
GDN	7M8	7M8>GDN	875	2,116.11	2,301.64	13,106.20		13,106.20
POZ	7M8	7M8>POZ	837	2,116.11	2,301.64	12,589.06		12,589.06
DBV	7M8	7M8>DBV	1175	2,116.11	2,301.64	17,228.20		17,228.20
SEA	7M8	7M8>SEA	3945	2,116.11	2,301.64	43,425.99	57,105.17	57,105.17
GOT	7M8	7M8>GOT	679	2,116.11	2,301.64	10,409.76		10,409.76
LCJ	7M8	7M8>LCJ	940	2,116.11	2,301.64	13,990.78		13,990.78
PSR	7M8	7M8>PSR	1050	2,116.11	2,301.64	15,498.99		15,498.99
HEL	7M8	7M8>HEL	1096	2,116.11	2,301.64	16,135.34		16,135.34
PIS	7M8	7M8>PIS	483	2,116.11	2,301.64	7,671.04		7,671.04
MAH	7M8	7M8>MAH	920	2,116.11	2,301.64	13,718.60		13,718.60
LPA	7M8	7M8>LPA	1581	2,116.11	2,301.64	22,866.08		22,866.08
TSR	7M8	7M8>TSR	1161	2,116.11	2,301.64	17,034.53		17,034.53
LYS	7M8	7M8>LYS	639	2,116.11	2,301.64	9,849.01		9,849.01
ACY	7M8	7M8>ACY	2837	2,116.11	2,301.64	40,866.56		40,866.56

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
SVO	7M8	7M8>SVO	1503	2,116.11	2,301.64	21,766.43		21,766.43
TLS	7M8	7M8>TLS	661	2,116.11	2,301.64	10,157.42		10,157.42
VLC	7M8	7M8>VLC	869	2,116.11	2,301.64	13,024.55		13,024.55
LUZ	7M8	7M8>LUZ	1067	2,116.11	2,301.64	15,734.16		15,734.16
SUF	7M8	7M8>SUF	1271	2,116.11	2,301.64	18,556.23		18,556.23
RBA	7M8	7M8>RBA	1162	2,116.11	2,301.64	17,048.36		17,048.36
BSL	7M8	7M8>BSL	632	2,116.11	2,301.64	9,750.88		9,750.88
WAW	7M8	7M8>WAW	989	2,116.11	2,301.64	14,657.61		14,657.61
NYO	7M8	7M8>NYO	838	2,116.11	2,301.64	12,602.67		12,602.67
FKB	7M8	7M8>FKB	609	2,116.11	2,301.64	9,428.44		9,428.44
VGO	7M8	7M8>VGO	678	2,116.11	2,301.64	10,395.74		10,395.74
RHO	7M8	7M8>RHO	1759	2,116.11	2,301.64	25,375.54		25,375.54
AHO	7M8	7M8>AHO	969	2,116.11	2,301.64	14,385.43		14,385.43
TLL	7M8	7M8>TLL	1085	2,116.11	2,301.64	15,983.17		15,983.17
SEN	7M8	7M8>SEN	278	2,116.11	2,301.64	4,905.18		4,905.18
STR	7M8	7M8>STR	650	2,116.11	2,301.64	10,003.21		10,003.21

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
PIK	7M8	7M8>PIK	139	2,116.11	2,301.64	2,826.90		2,826.90
PMO	7M8	7M8>PMO	1216	2,116.11	2,301.64	17,795.38		17,795.38
RZE	7M8	7M8>RZE	1066	2,116.11	2,301.64	15,720.33		15,720.33
BRE	7M8	7M8>BRE	542	2,116.11	2,301.64	8,489.19		8,489.19
NRN	7M8	7M8>NRN	467	2,116.11	2,301.64	7,455.16		7,455.16
ARN	7M8	7M8>ARN	880	2,116.11	2,301.64	13,174.24		13,174.24
JTR	7M8	7M8>JTR	1673	2,116.11	2,301.64	24,163.10		24,163.10
CFU	7M8	7M8>CFU	1353	2,116.11	2,301.64	19,690.59		19,690.59
FNC	7M8	7M8>FNC	1323	2,116.11	2,301.64	19,275.58		19,275.58
VCE	7M8	7M8>VCE	866	2,116.11	2,301.64	12,983.72		12,983.72
FNI	7M8	7M8>FNI	718	2,116.11	2,301.64	10,956.49		10,956.49
AYT	7M9	7M9>AYT	1829	2,116.11	2,301.64	28,163.79		28,163.79
NCL	7S8	7S8>NCL	188	2,384.78	2,597.65	4,185.12		4,185.12
STN	7S8	7S8>STN	255	2,384.78	2,597.65	5,457.29		5,457.29
EDI	7S8	7S8>EDI	182	2,384.78	2,597.65	4,085.56		4,085.56
CRL	7S8	7S8>CRL	436	2,384.78	2,597.65	8,280.52		8,280.52

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
LGW	7S8	7S8>LGW	262	2,384.78	2,597.65	5,566.48		5,566.48
REU	7S8	7S8>REU	796	2,384.78	2,597.65	14,205.58		14,205.58
LPL	7S8	7S8>LPL	123	2,384.78	2,597.65	3,139.72	3,089.48	3,089.48
BRU	7S8	7S8>BRU	425	2,384.78	2,597.65	8,108.95		8,108.95
MAN	7S8	7S8>MAN	144	2,384.78	2,597.65	3,455.00		3,455.00
VLC	7S8	7S8>VLC	869	2,384.78	2,597.65	15,386.60		15,386.60
GDN	7S8	7S8>GDN	875	2,384.78	2,597.65	15,483.67		15,483.67
LUX	7S8	7S8>LUX	519	2,384.78	2,597.65	9,596.67		9,596.67
RIX	7S8	7S8>RIX	1052	2,384.78	2,597.65	18,363.58		18,363.58
SVQ	7S8	7S8>SVQ	961	2,384.78	2,597.65	16,875.00		16,875.00
AMS	7S8	7S8>AMS	406	2,384.78	2,597.65	7,812.59		7,812.59
LTN	7S8	7S8>LTN	235	2,384.78	2,597.65	5,080.79		5,080.79
HHN	7S8	7S8>HHN	546	2,384.78	2,597.65	10,048.39		10,048.39
BCN	7S8	7S8>BCN	802	2,384.78	2,597.65	14,302.65		14,302.65
BTS	7S8	7S8>BTS	943	2,384.78	2,597.65	16,583.80		16,583.80
VRN	7S8	7S8>VRN	824	2,384.78	2,597.65	14,658.58		14,658.58

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
NQY	7S8	7S8>NQY	185	2,384.78	2,597.65	4,135.34		4,135.34
BRS	7S8	7S8>BRS	179	2,384.78	2,597.65	4,035.78		4,035.78
HAM	7S8	7S8>HAM	581	2,384.78	2,597.65	10,633.95		10,633.95
EMA	7S8	7S8>EMA	182	2,384.78	2,597.65	4,085.56		4,085.56
KTW	7S8	7S8>KTW	952	2,384.78	2,597.65	16,729.40		16,729.40
FCO	7S8	7S8>FCO	1020	2,384.78	2,597.65	17,835.81		17,835.81
ACE	7S8	7S8>ACE	1503	2,384.78	2,597.65	25,802.70		25,802.70
CWL	7S8	7S8>CWL	162	2,384.78	2,597.65	3,753.68		3,753.68
BHX	7S8	7S8>BHX	174	2,384.78	2,597.65	3,952.81		3,952.81
GRO	7S8	7S8>GRO	781	2,384.78	2,597.65	13,962.91		13,962.91
OPO	7S8	7S8>OPO	737	2,384.78	2,597.65	13,243.89		13,243.89
LIS	7S8	7S8>LIS	887	2,384.78	2,597.65	15,677.81		15,677.81
SDR	7S8	7S8>SDR	608	2,384.78	2,597.65	11,085.67		11,085.67
ALC	7S8	7S8>ALC	939	2,384.78	2,597.65	16,519.08		16,519.08
IBZ	7S8	7S8>IBZ	928	2,384.78	2,597.65	16,341.12		16,341.12
ADB	7S8	7S8>ADB	1647	2,384.78	2,597.65	28,222.58		28,222.58

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
OTP	7S8	7S8>OTP	1370	2,384.78	2,597.65	23,608.24		23,608.24
SZZ	7S8	7S8>SZZ	756	2,384.78	2,597.65	13,558.45		13,558.45
BRI	7S8	7S8>BRI	1186	2,384.78	2,597.65	20,573.59		20,573.59
MLA	7S8	7S8>MLA	1368	2,384.78	2,597.65	23,575.25		23,575.25
GLA	7S8	7S8>GLA	161	2,384.78	2,597.65	3,737.09		3,737.09
CDG	AB6	AB6>CDG	425	5,015.81	5,427.89	16,188.64		16,188.64
EMA	AB6	AB6>EMA	182	5,015.81	5,427.89	7,956.27		7,956.27
SNN	AB6	AB6>SNN	105	5,015.81	5,427.89	6,022.14	5,058.60	5,058.60
EMA	ABY	ABY>EMA	182	5,015.81	5,427.89	7,956.27		7,956.27
LEJ	ABY	ABY>LEJ	688	5,015.81	5,427.89	25,647.89		25,647.89
BHX	AT4	AT4>BHX	174	477.76	535.80	1,320.00		1,320.00
FKB	AT4	AT4>FKB	609	477.76	535.80	4,343.18		4,343.18
FRA	AT4	AT4>FRA	588	477.76	535.80	4,195.27		4,195.27
INV	AT5	AT5>INV	259	531.11	596.19	1,783.78		1,783.78
IOM	AT7	AT7>IOM	71	560.95	628.07	1,207.84	686.05	686.05
GLA	AT7	AT7>GLA	161	560.95	628.07	1,520.77		1,520.77

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
EDI	AT7	AT7>EDI	182	560.95	628.07	1,703.31		1,703.31
BHX	AT7	AT7>BHX	174	560.95	628.07	1,633.77		1,633.77
BRS	AT7	AT7>BRS	179	560.95	628.07	1,677.23		1,677.23
MAN	AT7	AT7>MAN	144	560.95	628.07	1,373.00		1,373.00
LBA	AT7	AT7>LBA	167	560.95	628.07	1,572.92		1,572.92
EXT	AT7	AT7>EXT	193	560.95	628.07	1,798.92		1,798.92
NCL	AT7	AT7>NCL	188	560.95	628.07	1,755.46		1,755.46
CFN	AT7	AT7>CFN	122	560.95	628.07	1,207.84	1,178.85	1,178.85
NQY	AT7	AT7>NQY	185	560.95	628.07	1,729.38		1,729.38
JER	AT7	AT7>JER	296	560.95	628.07	2,673.44		2,673.44
SOU	AT7	AT7>SOU	234	560.95	628.07	2,128.40		2,128.40
MST	AT7	AT7>MST	469	560.95	628.07	4,247.84		4,247.84
NWI	AT7	AT7>NWI	277	560.95	628.07	2,500.53		2,500.53
ABZ	AT7	AT7>ABZ	267	560.95	628.07	2,409.53		2,409.53
ABZ	AT7	AT7>ABZ	267	560.95	628.07	2,409.53		2,409.53
BHD	AT7	AT7>BHD	73	560.95	628.07	1,207.84	705.38	705.38

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
LPL	AT7	AT7>LPL	123	560.95	628.07	1,207.84	1,188.52	1,188.52
LPL	AT7	AT7>LPL	123	560.95	628.07	1,207.84	1,188.52	1,188.52
MST	ATF	ATF>MST	469	531.11	596.19	3,342.73		3,342.73
FAB	CCJ	CCJ>FAB	240	1,368.31	1,503.06	2,031.83		2,031.83
BQH	CJ2	CJ2>BQH	263	488.41	535.29	1,224.35		1,224.35
STN	CL5	CL5>STN	255	866.57	960.31	2,105.46		2,105.46
LTN	CL5	CL5>LTN	235	866.57	960.31	1,971.55		1,971.55
IOM	CNT	CNT>IOM	71	1,291.04	1,431.68	3,500.11	1,988.06	1,988.06
EMA	CNT	CNT>EMA	182	1,291.04	1,431.68	4,716.00		4,716.00
LPL	CRK	CRK>LPL	123	1,455.04	1,583.93	1,837.10	1,807.70	1,807.70
ZRH	CS1	CS1>ZRH	670	1,727.33	1,883.57	10,253.72		10,253.72
RIX	CS3	CS3>RIX	1052	1,533.67	1,670.38	16,965.84		16,965.84
GVA	CS3	CS3>GVA	644	1,533.67	1,670.38	11,011.83		11,011.83
ZRH	CS3	CS3>ZRH	670	1,533.67	1,670.38	11,433.00		11,433.00
LUX	DH4	DH4>LUX	519	745.42	816.70	5,579.14		5,579.14
SOU	DH4	DH4>SOU	234	745.42	816.70	2,724.92		2,724.92

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
EXT	DH4	DH4>EXT	193	745.42	816.70	2,348.76		2,348.76
AEY	DH4	DH4>AEY	817	745.42	816.70	8,576.73		8,576.73
CWL	E70	E70>CWL	162	1,391.92	1,516.91	2,277.66		2,277.66
AMS	E75	E75>AMS	406	1,391.92	1,516.91	4,834.75		4,834.75
CDG	E90	E90>CDG	425	1,720.43	1,878.62	6,018.73		6,018.73
LCY	E90	E90>LCY	259	1,720.43	1,878.62	3,912.56		3,912.56
AMS	E90	E90>AMS	406	1,720.43	1,878.62	5,777.66		5,777.66
LIS	E90	E90>LIS	887	1,720.43	1,878.62	12,064.68		12,064.68
EDI	E90	E90>EDI	182	1,720.43	1,878.62	3,136.89		3,136.89
HEL	E90	E90>HEL	1096	1,880.83	2,052.69	15,717.32		15,717.32
ZRH	E90	E90>ZRH	670	1,720.43	1,878.62	9,234.52		9,234.52
LIS	E95	E95>LIS	887	1,880.83	2,052.69	12,812.47		12,812.47
DUB	E95	E95>DUB	0	1,880.83	2,052.69	-		-
WAW	E95	E95>WAW	989	1,880.83	2,052.69	14,217.98		14,217.98
CPH	E95	E95>CPH	673	1,880.83	2,052.69	9,829.39		9,829.39
EWR	E9L	E9L>EWR	2774	148.32	165.71	2,810.32	7,795.82	7,795.82

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
SEN	ER3	ER3>SEN	278	859.36	946.86	2,468.74		2,468.74
ABZ	ER4	ER4>ABZ	267	924.49	1,020.18	2,338.39		2,338.39
INV	ER4	ER4>INV	259	924.49	1,020.18	2,276.50		2,276.50
TEB	GJ4	GJ4>TEB	2765	1,824.04	2,023.25	30,649.87		30,649.87
AYT	GS5	GS5>AYT	1829	902.22	997.92	10,060.95		10,060.95
TEB	GS6	GS6>TEB	2765	141.72	157.71	3,033.25	5,591.28	5,591.28
CAX	J32	J32>CAX	152	228.70	252.99	517.81		517.81
CGN	L45	L45>CGN	518	902.22	997.92	3,283.68		3,283.68
KIR	L45	L45>KIR	140	902.22	997.92	1,266.41		1,266.41
STN	L45	L45>STN	255	902.22	997.92	1,988.28		1,988.28
SMV	PL4	PL4>SMV	747	488.41	535.29	3,198.30		3,198.30
OXF	Q00	Q00>OXF	204	1,291.04	1,432.68	4,617.48		4,617.48
BHX	SF3	SF3>BHX	174	322.36	359.18	1,068.11		1,068.11
FRA	SF3	SF3>FRA	588	322.36	359.18	2,969.25		2,969.25
FKB	SF3	SF3>FKB	609	322.36	359.18	3,052.14		3,052.14
CAX	SF3	SF3>CAX	152	322.36	359.18	950.08		950.08

Airport	Aircraft	Airport>Aircraft	Distance (nm)	LTO emissions (Europe) (kgCO2)	LTO emissions (ICAO) (kgCO2)	CCD emissions (kgCO2)	CCD emissions, adjusted with max/min ICAO default (kgCO2)	Combined CCD (updated where adjustments are made) (kgCO2)
FKB	SFF	SFF>FKB	609	141.72	157.71	1,299.20		1,299.20
HPN	X11	X11>HPN	2744	6,302.13	6,829.44	96,679.80		96,679.80
DND	Y59	Y59>DND	214	6,302.13	6,829.44	10,376.69		10,376.69
LTN	Z03	Z03>LTN	235	6,302.13	6,829.44	11,152.93		11,152.93
FAB	Z06	Z06>FAB	240	6,302.13	6,829.44	11,337.75		11,337.75
GLA	Z15	Z15>GLA	161	6,302.13	6,829.44	8,205.15		8,205.15
NCE	Z22	Z22>NCE	793	6,302.13	6,829.44	29,804.05		29,804.05
DXB	Z25	Z25>DXB	3200	6,302.13	6,829.44	111,517.24		111,517.24
LBG	Z30	Z30>LBG	423	6,302.13	6,829.44	17,228.03		17,228.03
FAO	Z30	Z30>FAO	987	6,302.13	6,829.44	36,355.99		36,355.99
ARN	Z30	Z30>ARN	880	6,302.13	6,829.44	32,742.29		32,742.29

4.1.8 To calculate annual emissions, the aircraft and ATM schedule produced for this EIAR has been pro-rated up based on the number of ATMs for the busy day and the total annual ATMs including the following assumptions for Proposed Order:

4.1.9 The same factors are used from 2029 onwards to 2050 for the relevant schedules.

Table 4A-4: Annual ATM Annual Night and Day Factor

Year	Schedule	Annual Night Factor	Annual Day Factor
2023	1	253	315
2025	2	253	320
2029	3	253	316
2029	4	253	315

5. Annual Emission Totals

5.1.1 This section provides the annual emission totals as tCO_2e for the three emission sources.

	Aviation				Operations				Surface Transport			
Year	Baseline Operation (32mppa)	Current Operation (36.4 mppa)	Proposed Operation (40 mppa)	Future Permitted Operation (32mppa)	Baseline Operation (32mppa)	Current Operation (36.4 mppa)	Proposed Operation (40 mppa)	Future Permitted Operation (32mppa)	Baseline Operation (32mppa)	Current Operation (36.4 mppa)	Proposed Operation (40 mppa)	Future Permitted Operation (32mppa)
2023	3,450,740	-	-	-	20,855	-	-	-	236,769	-	-	-
2024	3,402,429	-	-	-	17,998	-	-	-	234,859	-	-	-
2025	3,239,423	3,701,895	-	-	16,621	17,264	-	-	233,502	267,497	-	-
2026	3,180,466	3,634,520	3,693,511	3,180,466	13,354	15,325	15,704	13,354	237,475	265,935	272,404	237,475
2027	3,122,524	3,568,307	3,630,857	3,122,524	11,099	12,763	13,403	11,099	235,858	264,124	277,989	235,858
2028	3,065,581	3,503,235	3,686,222	3,065,581	10,209	11,752	12,646	10,209	234,032	262,079	283,422	234,032
2029	3,009,621	3,439,285	3,796,770	3,009,621	11,706	12,018	13,252	11,706	232,471	259,790	288,821	232,471
2030	2,954,627	3,376,440	3,727,393	2,954,627	10,833	11,145	12,290	10,833	230,164	257,212	285,956	230,164
2031	2,849,865	3,256,722	3,595,231	2,849,865	9,242	9,554	10,535	9,242	228,127	254,935	283,424	228,127
2032	2,747,457	3,139,693	3,466,038	2,747,457	7,515	7,826	8,630	7,515	225,917	252,466	280,679	225,917
2033	2,647,358	3,025,304	3,339,759	2,647,358	7,199	7,511	8,283	7,199	223,540	249,810	277,726	223,540
2034	2,549,523	2,913,502	3,216,336	2,549,523	7,267	7,578	8,357	7,267	221,047	247,023	274,629	221,047
2035	2,453,909	2,804,237	3,095,714	2,453,909	7,509	7,821	8,624	7,509	215,227	240,519	267,398	215,227
2036	2,372,288	2,710,964	2,992,746	2,372,288	7,539	7,851	8,657	7,539	207,649	232,051	257,982	207,649
2037	2,292,472	2,619,753	2,892,055	2,292,472	7,697	8,009	8,832	7,697	200,280	223,816	248,828	200,280

	Aviation				Operations				Surface Transport			
Year	Baseline Operation (32mppa)	Current Operation (36.4 mppa)	Proposed Operation (40 mppa)	Future Permitted Operation (32mppa)	Baseline Operation (32mppa)	Current Operation (36.4 mppa)	Proposed Operation (40 mppa)	Future Permitted Operation (32mppa)	Baseline Operation (32mppa)	Current Operation (36.4 mppa)	Proposed Operation (40 mppa)	Future Permitted Operation (32mppa)
2038	2,214,426	2,530,565	2,793,596	2,214,426	8,080	8,392	9,254	8,080	193,016	215,698	239,803	193,016
2039	2,138,116	2,443,361	2,697,328	2,138,116	7,061	7,373	8,130	7,061	184,872	206,597	229,685	184,872
2040	2,063,508	2,358,102	2,603,207	2,063,508	6,602	6,914	7,624	6,602	176,053	196,742	218,728	176,053
2041	2,041,171	2,332,576	2,575,028	2,041,171	5,994	6,305	6,953	5,994	166,579	186,155	206,958	166,579
2042	2,018,834	2,307,050	2,546,849	2,018,834	5,674	5,985	6,600	5,674	157,325	175,813	195,461	157,325
2043	1,996,497	2,281,524	2,518,670	1,996,497	6,272	6,584	7,260	6,272	148,163	165,574	184,077	148,163
2044	1,974,160	2,255,999	2,490,491	1,974,160	6,287	6,599	7,277	6,287	139,301	155,671	173,068	139,301
2045	1,951,824	2,230,473	2,462,312	1,951,824	6,590	6,902	7,611	6,590	130,786	146,155	162,488	130,786
2046	1,858,753	2,124,115	2,344,899	1,858,753	5,894	6,206	6,843	5,894	122,524	136,922	152,224	122,524
2047	1,765,682	2,017,757	2,227,486	1,765,682	5,327	5,638	6,217	5,327	114,537	127,997	142,301	114,537
2048	1,672,612	1,911,400	2,110,074	1,672,612	5,296	5,607	6,184	5,296	106,850	119,407	132,750	106,850
2049	1,579,541	1,805,042	1,992,661	1,579,541	5,191	5,503	6,068	5,191	99,493	111,185	123,610	99,493
2050	1,486,471	1,698,684	1,875,248	1,486,471	5,435	5,746	6,337	5,435	95,438	106,654	118,572	95,438