



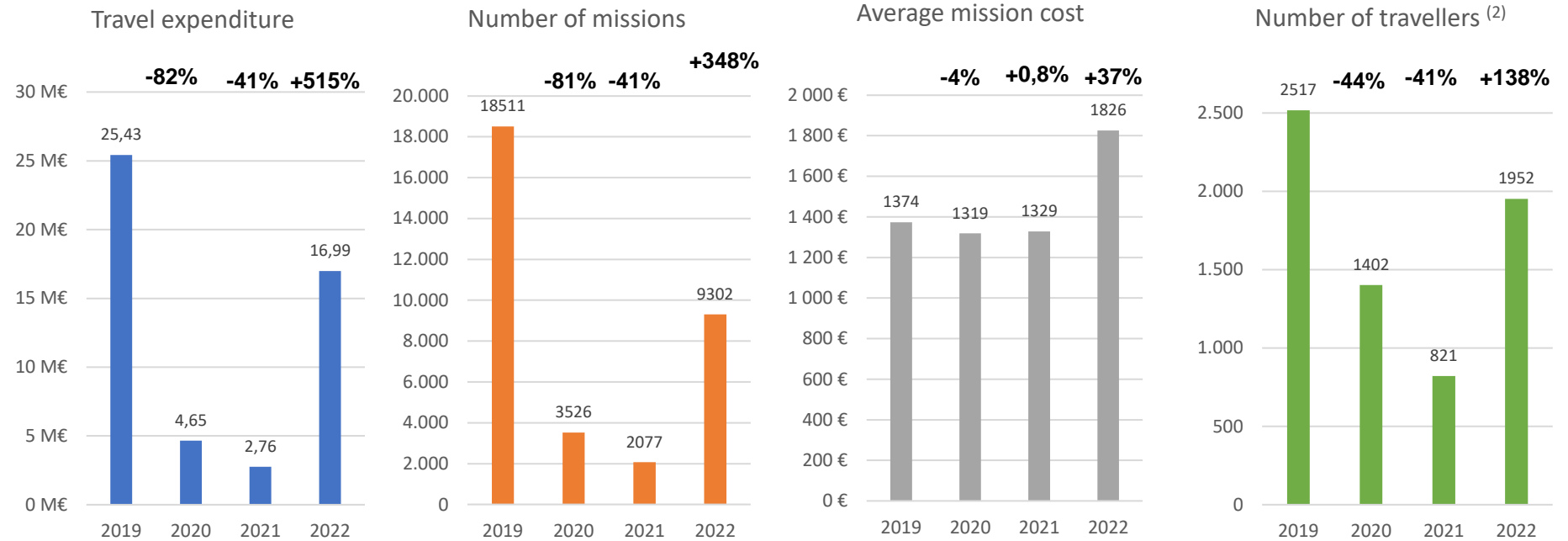
# EIBG Business Travel and Emissions

GCS/BLD/FMS/BTM



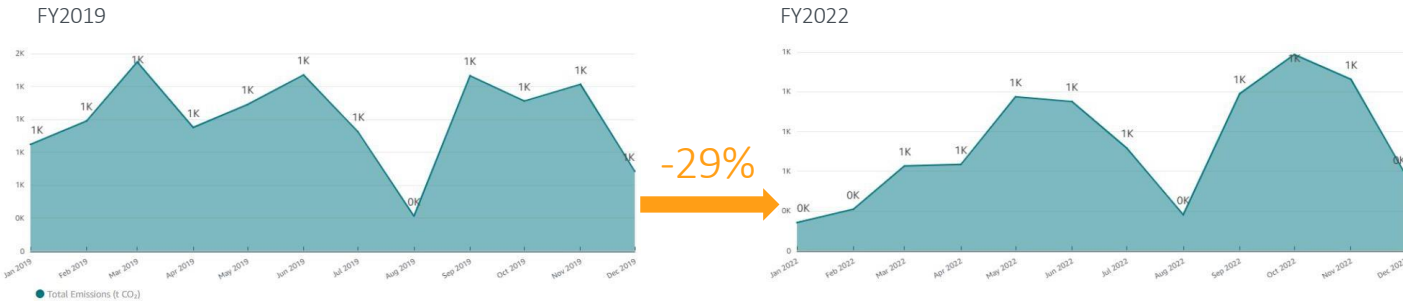
# Travel Figures 2019 - 2022

## EIB Group Travel Expenditure, Number of Missions, Average Mission Cost and Travellers with Percentage of Increase

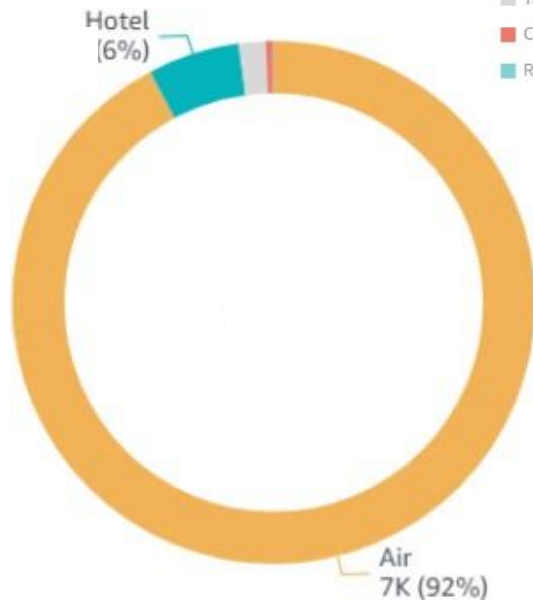


Data source: EIB Annual travel dashboard 2022

# 2022 vs. 2019



Category | Emissions (t CO<sub>2e</sub>)










- Air
- Hotel
- Taxi/Rideshare
- Car
- Rail

Net Emissions	tCO <sub>2e</sub>
2019	21,153
2022	14,993

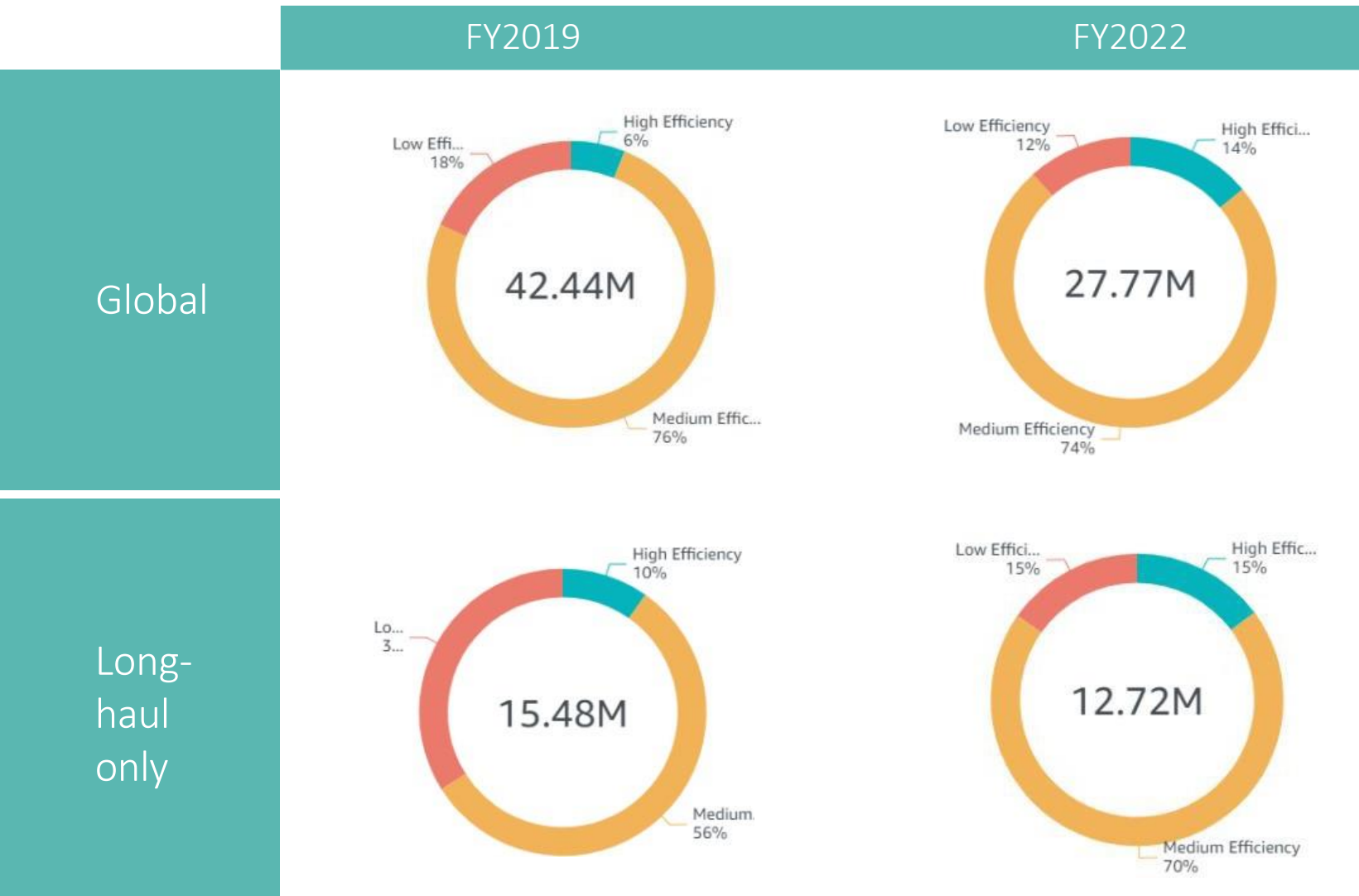


- + Emissions have decreased by 29% between 2019 and 2022. A return to travel is however clear.
- + 92% of EIBG mobility emissions come from air travel (23% of emissions come from the front-office directorates).

# Comparison FY2019 vs. FY2022

	Jan-Dec 2019	Jan-Dec 2022	
	21,153 tons	14,993 tons	-29%
	4% high efficiency aircraft	14% high efficiency aircraft	+10 points
	11% long-haul flights	16% long-haul flights	+5 points
	10% one-day trips on short hauls	5% one-day trips on short hauls	-5 points
 <i>*on routes with alternatives</i>	92% traveling by train*	88% traveling by train*	-4 points
	29.2 kg CO2 per room night	33.5 kg CO2 per room night	+4.3 kgs per RN
	56% lower medium and superminis	47% lower medium and superminis	-9 points

# EIB has benefited from aircraft' efficiency improvement



- ✓ Fleet renewal + COVID crisis has led to an increase in efficient aircraft in the industry, especially on long-haul.
- ✓ On long haul flights in 2022, high-efficient aircraft represent 12% of the emissions and 15% of the distance.
- ✓ With the number of flights increasing again, it is likely that the average efficiency will deteriorate slightly in the coming months (old aircraft starting to fly again)

# Focus on steering on key routes

**LUX-STO:** 36% of segments were booked on good aircraft with Luxair (vs. 15% in 2019)



**DUB-LUX:** 48% of segments were booked with Luxair vs. 78% in 2019



**LUX-NYC:** The majority of the bookings go to Lufthansa. Switch to KLM (16% usage in 2022) and Luxair (9%) on this route.



**BCN-LUX:** 61% of segments on Luxair (best option on this route)



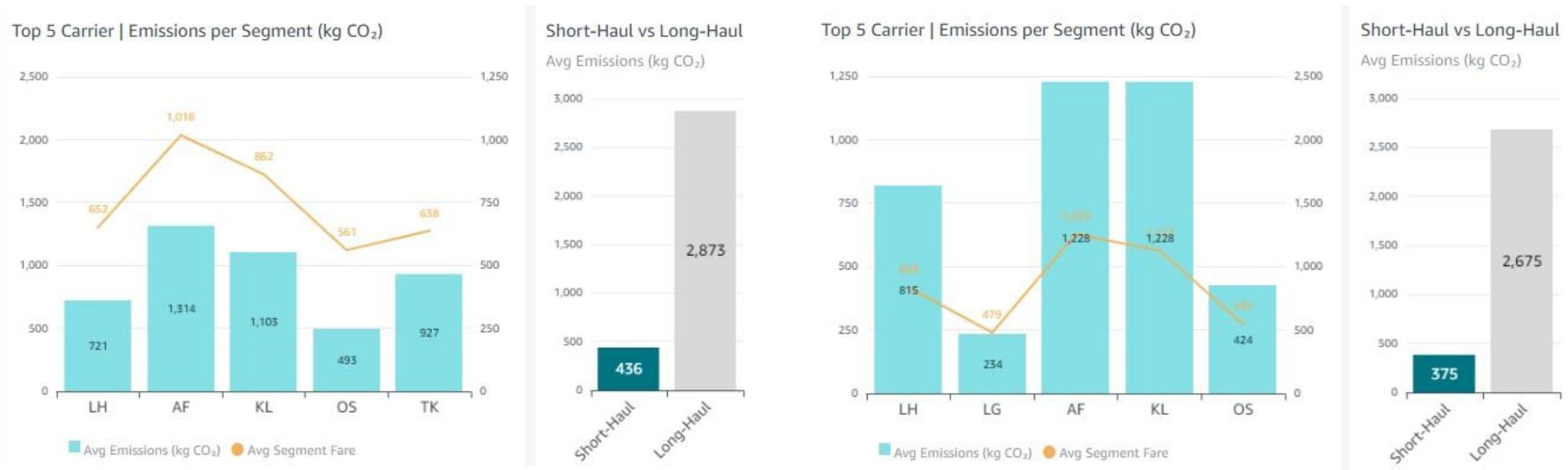
EIB has steered a good amount of segments to the best suppliers but more work needs to be done on some key routes (recommendation section).



# What was the effect on EIB average emissions ?

FY2019 (based on business cabin)

FY2022 (based on business cabin)

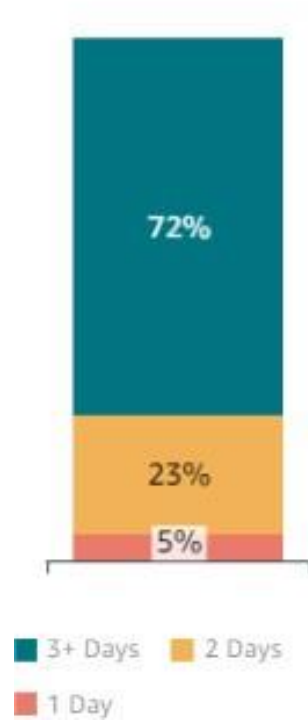


✓ With airline efficiencies increased significantly over time, EIB average CO<sub>2</sub> emissions for long and short haul flights has decreased. This is a good sign though the metric will need to be monitored over time as it can be highly dependent on the travel mix such as distance, cabin and whether EIB travelers had access to direct flights.

# Good performance on short stays

## Trip Length

Trips (%)



## SHARE (%) Period-over-Period Comparison | Market Pair by Segments (%)

Showing top 5 in selected dimension by selected measure



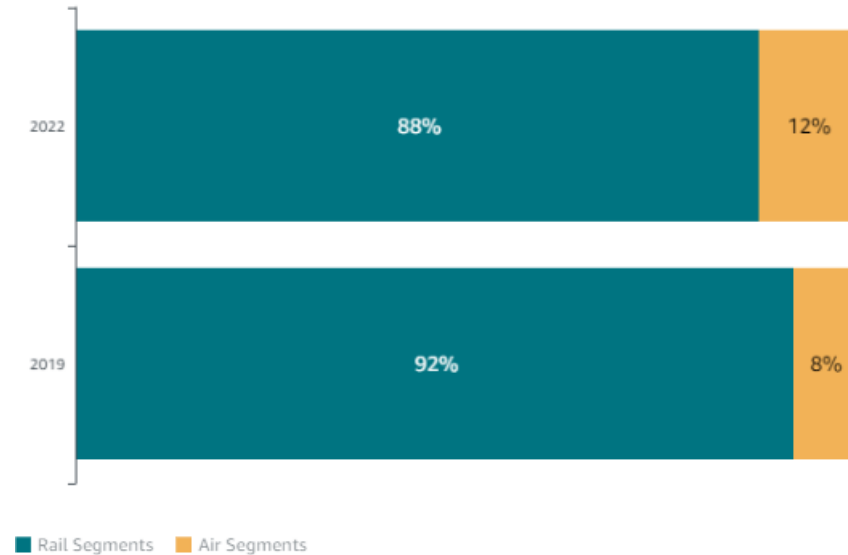
- ✓ The share of 1-day trips has decreased by 5 points globally (and by 7 points on short hauls).
- ✓ Top routes need to be a focus, specifically LON-LUX, AMS-LUX and BER-LUX: over 25% of the one-day short haul emissions were made on these routes. (3 tons of CO2 only).

Data source: Advito study on 2022 EIBG Business Travel carbon emissions

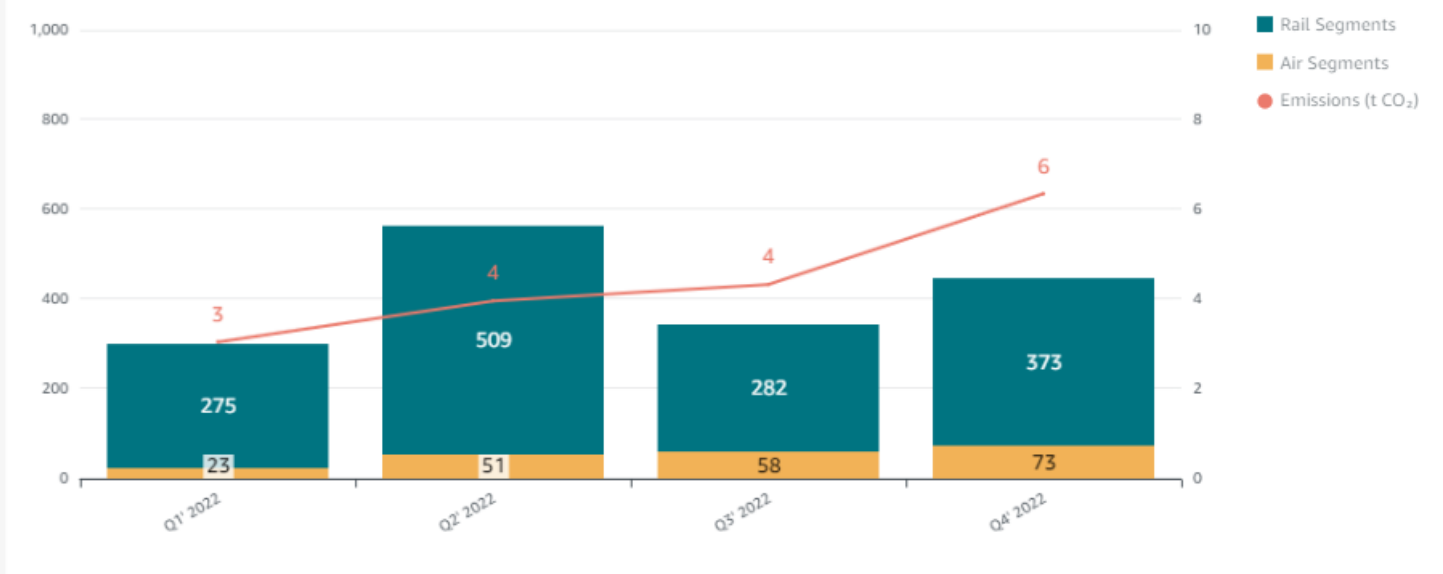


# Amazing performance on train usage

Segment (%) on Routes with Alternatives



Routes with Rail Alternatives | Emissions per Quarter (t CO<sub>2</sub>)



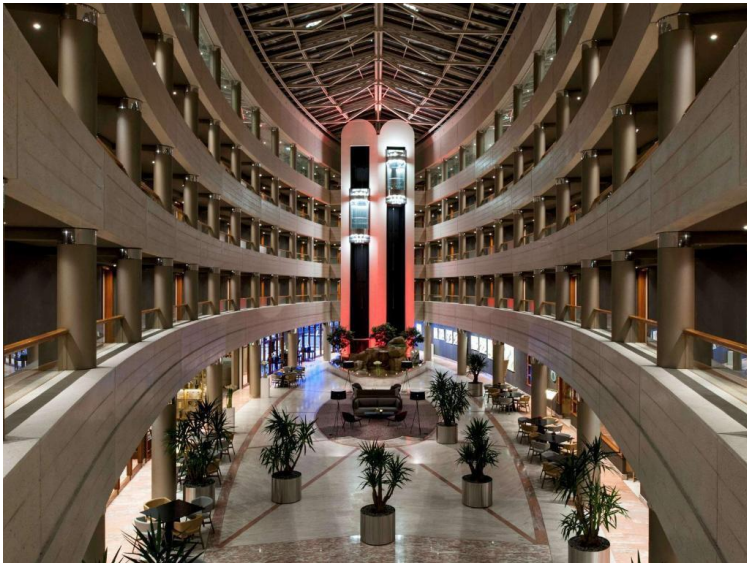
- ✓ Rail usage on eligible routes is extremely high for EIB, even though the share slightly decreased between 2019 and 2022.
- ✓ Intra-country train trips in Portugal, Poland, Italy and Spain are good opportunities for further shifts: Amsterdam-Paris, Lisbon-Porto, Milan-Rome, Barcelona-Madrid

# Business travel and water: an unknown but significant impact

- ✓ **Traveler behavior:** on average, travelers use twice more water when staying in a hotel
- ✓ **Hotel choice:** five stars properties and properties with pool or spa consume huge quantities of water



Decreasing the volume in properties consuming much water may be considered in a modern sustainability strategy



## LET'S TAKE A LOOK AT A LUXEMBOURG HOTEL CHAIN

Five star hotel

→ Water consumption: 398 liters/room night

Four star hotel (higher category)

→ 265 liters/room night

Four star hotel (lower category)

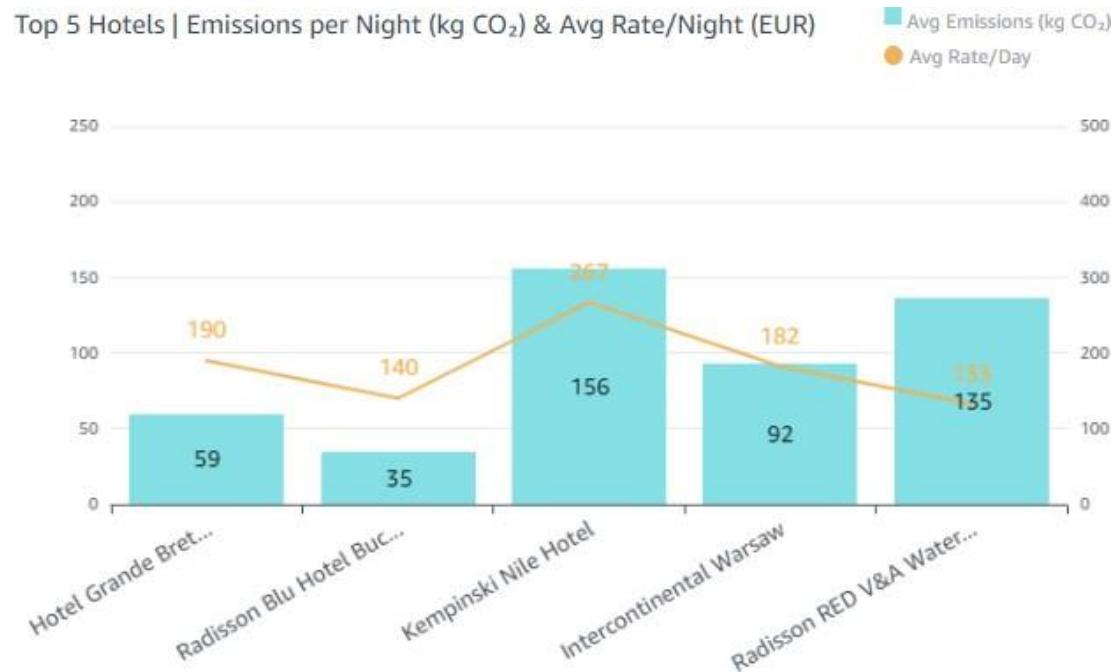
→ 185 liters/room night

# Hotels: continue to leverage eco-certified properties

Eco-Certified Hotels | Hotel Nights (%)



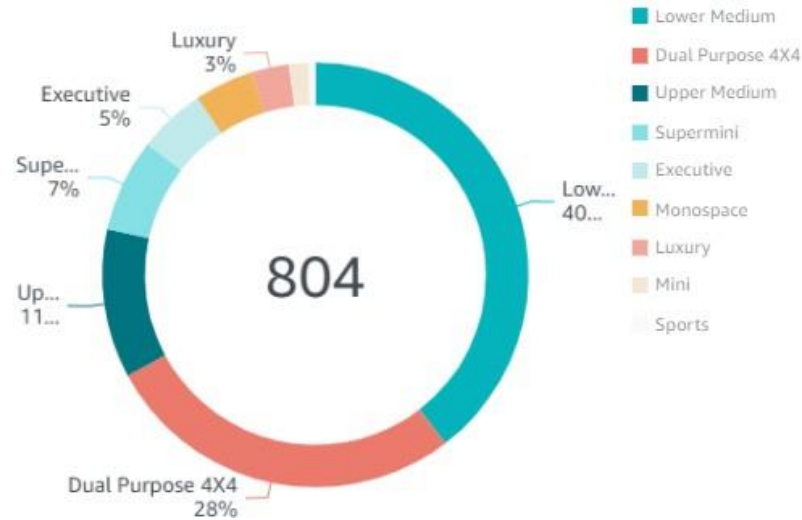
Top 5 Hotels | Emissions per Night (kg CO<sub>2</sub>) & Avg Rate/Night (EUR)



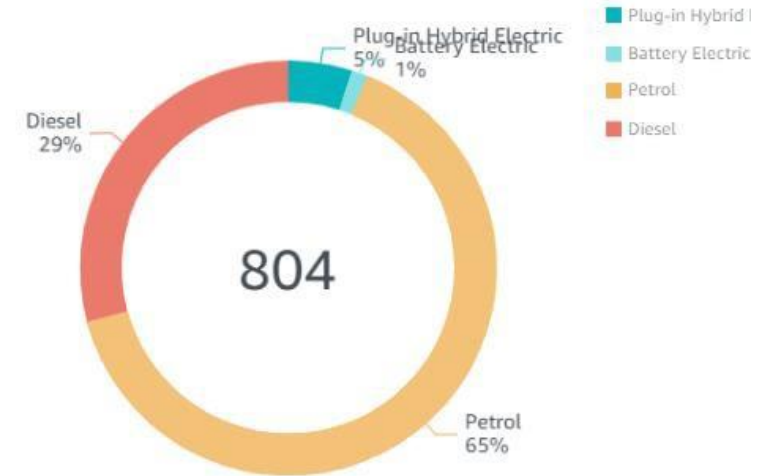
- ✓ Eco-certified properties represent **9% of hotel nights and 7% of hotel emissions**. This share has increased by 3 points compared to 2019. EIB top 5 eco-certified hotels were not booked in 2019.
- ✓ Booking eco-certified properties not only help saving CO<sub>2</sub>, but also receiving guarantee around water conservation, biodiversity protection, local and seasonal food sourcing etc.

# Rental car: be careful to vehicle size

Category | Rental Days (%)

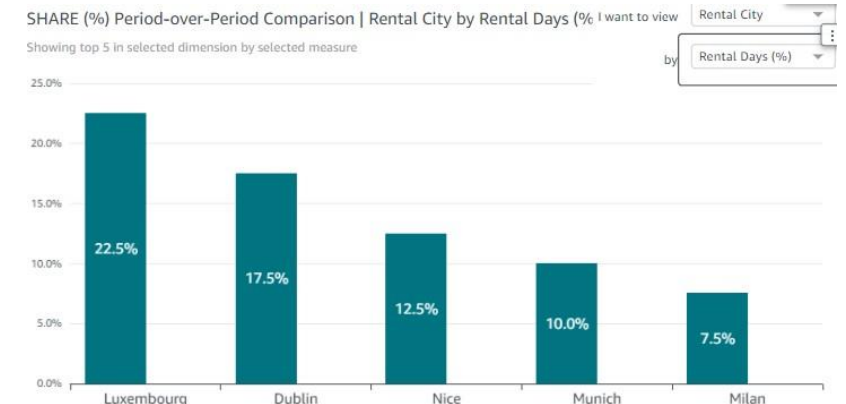


Fuel Type | Rental Days (%)



- ✓ In 2022, EIB travelers have rented more large sized vehicles (53% are upper medium or above) compared to 44% in 2019.
- ✓ 5% of bookings were made in 2022 with a battery electric vehicle (40 rental days) and 6% when including hybrid vehicle (50 rental days).

Here you can see where these **battery electric vehicle** were booked.



Data source: Advito study on 2022 EIBG Business Travel carbon emissions

# Recommendations

# Target most polluting destinations

Market Pair Name	Emissions (t CO <sub>2</sub> )	Avg Emissions (kg CO <sub>2</sub> )	Segments
Johannesburg-Luxembourg	343	3,368	102
Jakarta-Luxembourg	118	3,269	36
Luxembourg-Washington	219	2,437	90
Luxembourg-Nairobi	293	2,404	122
Buenos Aires-Luxembourg	75	4,163	18
Luxembourg-Quito	82	3,574	23
Luxembourg-Sao Paulo	74	3,520	21
Cape Town-Luxembourg	100	3,453	29
Antananarivo-Luxembourg	52	2,490	21
Luxembourg-New York	103	2,348	44

- ✓ Those 10 routes represent **4% of EIB segments but 20% of the air emissions**
- ✓ If EIB decreases volume by 50% on those routes only, **total air emissions would decrease by 10%.**



# Promote best aircraft and supplier on top routes

## Luxembourg-Rome

Fly **direct** with Luxair (B737)

## Helsinki-Luxembourg

Fly with SAS or Finnair

## Lisbon-Luxembourg

Fly **direct** with TAP (A320neo)

## Luxembourg-Warsaw

Fly direct with LOT

## Luxembourg – New York

Fly KLM/DL via AMS  
(B787 + A330-900neo)

## Cairo-Luxembourg

Continue flying LH/LG

## Luxembourg-Nairobi

Fly KLM via AMS or AF via CDG

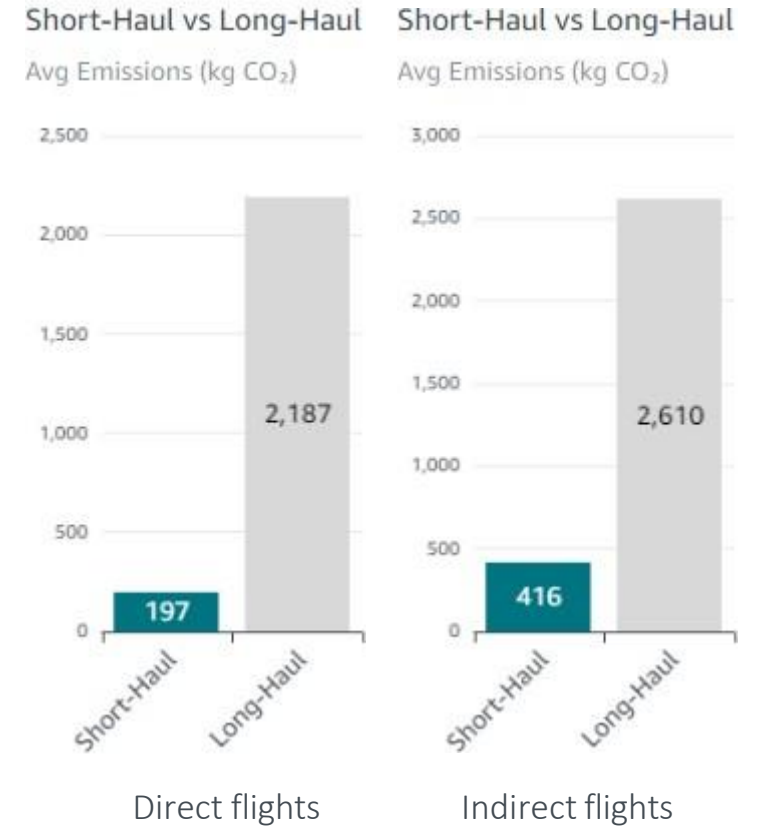
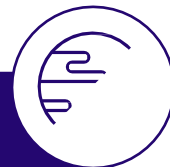
## Luxembourg-Jakarta

Continue flying Turkish via IST

# Target indirect flights

- ✓ **78% of EIB long-haul segments are indirect flights.** These connected flights have higher CO<sub>2</sub> emissions and are not optimal for well-being either.
- ✓ **37% of all short haul segments are indirect.**
- ✓ Some **indirect flights** are booked on routes where **direct flights operate** (ATH-LUX, LUX-WAW, BUH-LUX e.g.). Reasons:
  - Cost
  - Availability

Overall, indirect flight represent 42% of total segments but 70% of total air emissions



Average emissions increase per haul

+111%

+19%

Data source: Advito study on 2022 EIBG Business Travel carbon emissions

# Shifting from business to economy

- + 58% of business trips in 2022 compared to 42% in 2019 (temporary travel policy)
- + By shifting 50% of the trips in **short haul** to economy class, EIB could save over 510 tons of CO<sub>2</sub>



QUESTIONS  
?



European  
Investment Bank