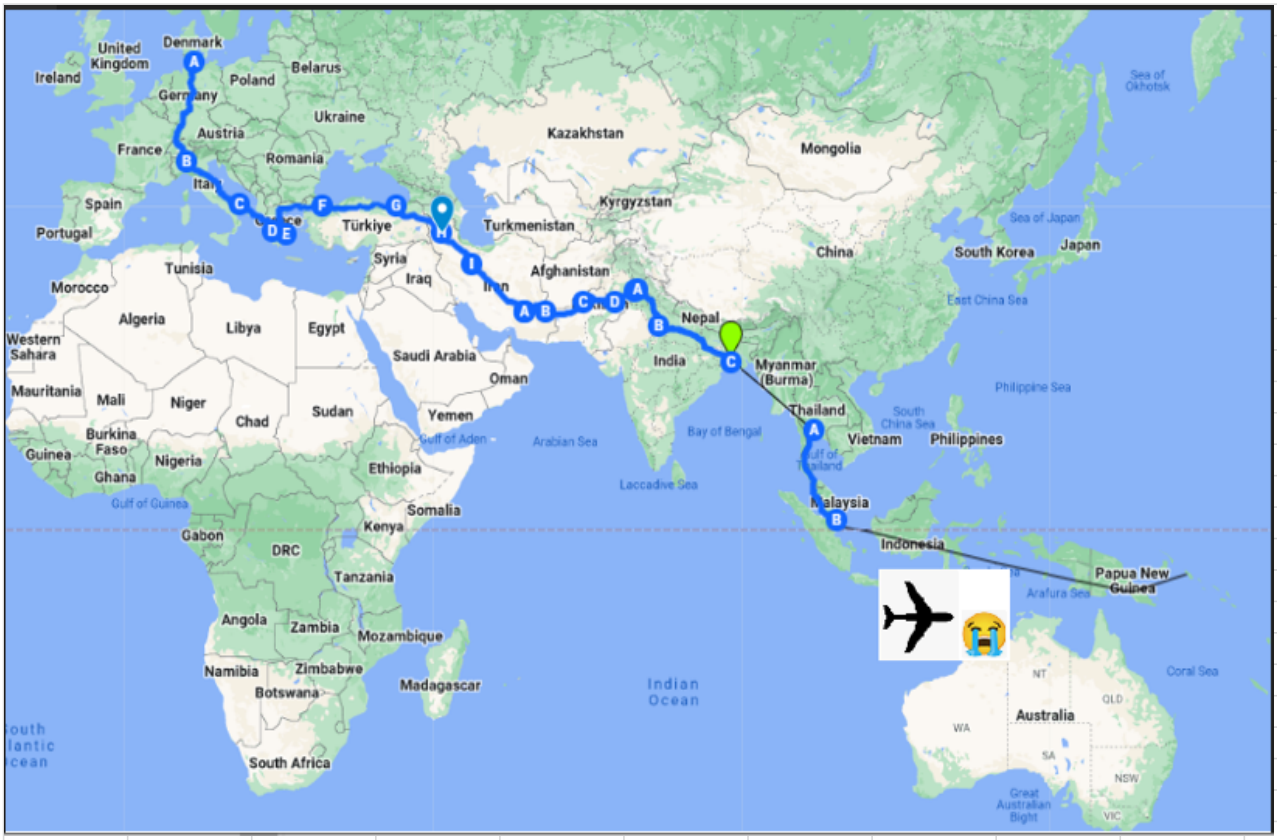
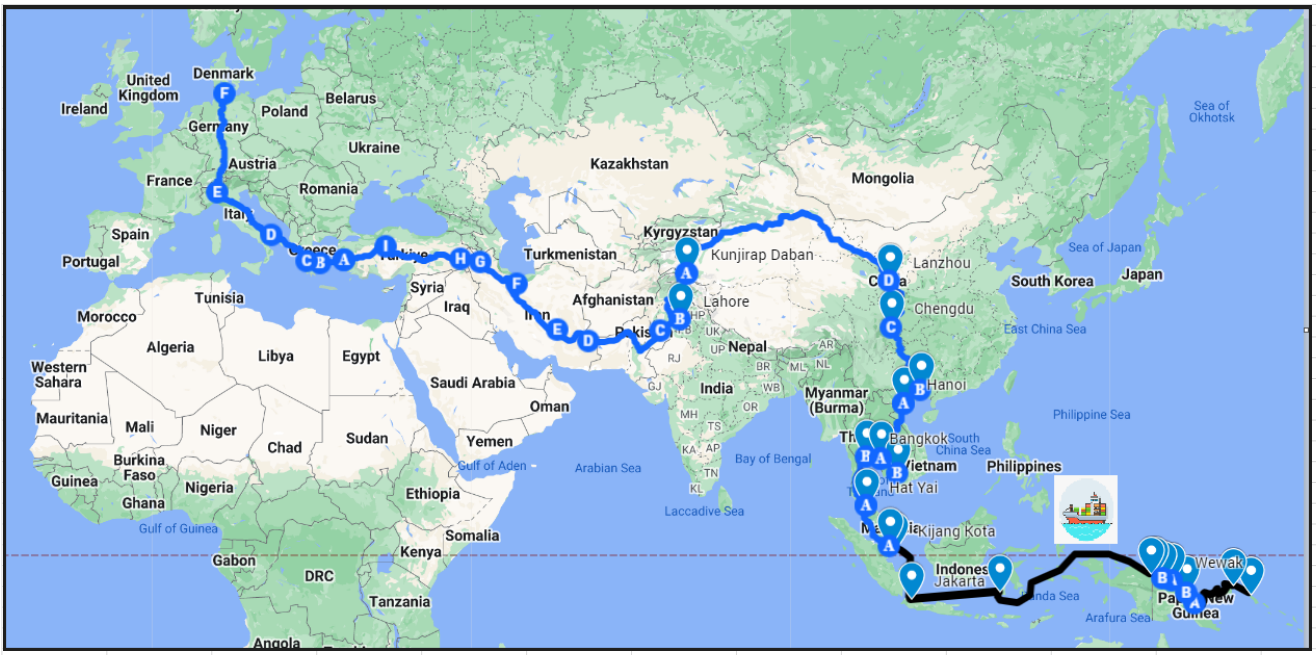

United Kingdom
Ireland
Denmark
Germany
Poland
Belarus
Ukraine
France
Austria
Romania
Spain
Portugal
Türkiye
Kazakhstan
Mongolia
Kyrgyzstan
Turkmenistan
China
South Korea
Japan
Sea of Okhotsk
Sea of Japan
East China Sea
Tunisia
Morocco
Algeria
Libya
Egypt
Syria
Iraq
Iran
Afghanistan
Nepal
India
Myanmar (Burma)
Western Sahara
Mauritania
Mali
Niger
Chad
Sudan
Saudi Arabia
Oman
Yemen
Gulf of Aden
Arabian Sea
Bay of Bengal
Thailand
Vietnam
Philippines
South China Sea
Philippine Sea
Burkina Faso
Guinea
Nigeria
Ghana
Gulf of Guinea
Ethiopia
Somalia
Kenya
Laccadive Sea
Malaysia
Indonesia
Gabon
DRC
Tanzania
Angola
Zambia
Mozambique
Namibia
Zimbabwe
Botswana
Madagascar
South Africa
Indian Ocean
Papua New Guinea
Arafura Sea
Coral Sea
Australia
NT
QLD
WA
SA
NSW
VIC
Great Australian Bight



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Emission impact of mode of travel-conversion factors

	g of CO2 /passenger km	Emission ratios with respect to flying (%)	Source					
Ferry	18.738	13.46	Defra					
Rail national	36.94	26.53	Carbon Academy	https://www.carbonfootprint.com/calculator.aspx				38.7
Long-distance rail	4.368719965	3.14	Carbon Academy	https://www.carbonfootprint.com/calculator.aspx				10.61598952
Flight (international)	139.2452	100.00	Atmosfair.de					
Coach	27.73629187	19.92	Carbon Academy	https://www.carbonfootprint.com/calculator.aspx				
Taxi	152.8384279	109.76	Carbon Academy	https://www.carbonfootprint.com/calculator.aspx				
Shared car (4 people)	38.20960699	27.44	Carbon Academy	https://www.carbonfootprint.com/calculator.aspx				
Bus	102.4327785	73.56	Carbon Academy	https://www.carbonfootprint.com/calculator.aspx				
How to read this table: Ferry emits 18,7 grams of CO2 per km per passenger. This is equal to 13% of what an airplane emits per km per passenger.								
Etc.								

	My outbound trip	My Inbound trip (complete no-fly)	Total slow-travel	Airplane only	Difference between my travel Vs. Airplane
Emissions from means of transport other than planes (Kg CO2-eq)	188	557	744	0	
Emissions from airplanes (Kg CO2-eq)	1672	0	1672	10526	
Total Emissions (Kg CO2-eq)	2349	557	2906	10526	7620
Ratio emissions my trip/airplane only	45%	11%			
Total distance overland/oversea (km)	14110	28226	42336		
Proportion of overall distance covered without planes	65%	100%		0%	
Duration (hours)	330	672	1002	70	862
Costs (€)	1719	1527	3246	2440	-1634

Note: Emissions are in Kg of CO2-eq.

My outbound trip includes 2 flights (Kolkata-Bangkok and Singapore-Buka,PNG)

due to impossibility of entering Myanmar by land and impossibility of travelling by ferry from Singapore to Indonesia.

Travelling overland from Bangkok to Singapore reduces emissions in comparison with flying over the full stretch Kolkata-Singapore.

The inbound trip has been entirely no-fly.

Estimates of costs is provisional.

Costs do not include visa application expenses (about €1200).

	2914	4706	7620		

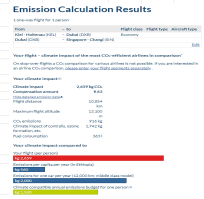
Travel plan	Distance (km)	Means of transport	Kg of CO2 (from sources other than Carbon Academy)	Duration	Expenses
Kiel-Milan	1244	International rail Kiel-Milan International	7.6	14	180
Milan-Bari	1004	rail		8	80
Bari-Patras	577	Ferry	10.81 1826	18	81
Patras-Istanbul	1307	coach International		18	80
Istanbul-Ankara	438	rail		5	26
Ankara-Trabzon	737	coach		12	25
Trabzon-Van	633	coach		12	25
Van-Tabriz	333	coach		5	15
Tabriz-Qom	734	coach		14	15
Qom-Bam	1025	coach		16	15
Bam-Taftan	428	coach		6	10
Taftan-Quetta	630	national rail		14	15
Quetta-Multan	632	national rail		12	15
Multan-Lahore	338	national rail		5	10
Lahore-Waghran	30	coach		1	5
Amritsar-Kolkata	2012	national rail		26	50
Kolkata-Bangkok	1658	airplane		6	100
Bangkok-Singapore	2832	international rail		24	80
Singapore-Buka	6001	airplane		8	837.98

Total emissions	2342.41
Total coach	140
International rail Kiel-Milan	7.6
Total international rail	20
Total national rail	130
Total ferry	10.81
Flight Kolkata-Bangkok	362
Singapore-Moisby-Buka	1672

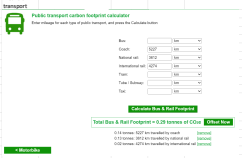
Total distance	22593
Total coach	5227
International rail Kiel-Mil	1244
Total international rail	4274
Total national rail	3612
Total ferry	577
Flight Kolkata-Bangkok	1658
Singapore-Moisby-Buka	6001
Proportion of trip overland	66.10%
Difference in emissions	2369
Proportion of slow-travel emissions compared to airplane (%)	49.72217841
Excluding Singapore-Port Moresby	
Proportion of trip overland	98.81%
Difference in emissions	2369
Proportion of slow-travel emissions compared to airplane (%)	22.06%

Total duration	224
Total coach	84
International rail Kiel-Milan	14
Total international rail	37
Total national rail	57
Total ferry	18
Total airplane	14

Total expenses	2014.98
Total coach	190
International rail Kiel-Milan	180
Total international rail	180
Total national rail	90
Total ferry	81
Total airplane	937.98
Visas	350



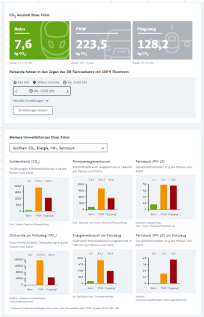
Emission from non-airplane means of transport

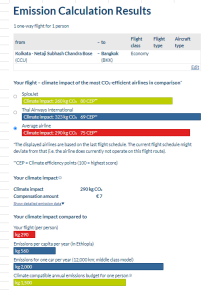


DEFRA Conversion tables

	kg of CO2 (passenger km)	Relive with respect to Kiel-Milan (%)
Ferry	0.018738	13.46
Rail national	0.03654	26.52
Rail international	0.00497	3.57
Flight (international)	0.1392452	100.00
Coach	0.02732	19.62

Kiel-Milan





Stage	Travel plan	Distance (km)	Means of transport	Duration (hours)	Expenses (€)	Country
1	Kiel-Milan	1244	international rail Kiel-Milan	14	180	Germany, Switzerland, Italy
2	Milan-Bari	1004	long-distance	8	80	Italy
3	Bari-Patras	577	ferry	18	81	Italy, Greece
4	Patras-Athens	210	coach	4	30	Greece
5	Athens-Kos (Greece) - Bodrum (Turkey)	469	ferry	15	80	Greece, Turkey
6	Bodrum-Izmir	262	coach	3	10	Turkey
7	Izmir-Ankara	590	coach	12	30	Turkey
8	Ankara-Van	1260	coach	16	40	Turkey
9	Van-Tabriz	333	coach	12	15	Turkey, Iran
10	Tabriz-Tehran	617	long-distance	14	15	Iran
11	Tehran-Kerman	988	coach	16	10	Iran
12	Kerman-Bam	194	coach	5	5	Iran
13	Bam-Taftan	428	taxi	6	80	Iran
14	Taftan-Quetta	630	Police convoy	20	0	Pakistan
15	Quetta-Islamabad	953	Shared car	12	0	Pakistan
16	Islamabad-Lahore	374	coach	5	10	Pakistan
17	Lahore-Waghran	30	taxi	1	5	Pakistan
18	Amritsar-Kolkata	2012	long-distance	26	50	India
19	Kolkata-Bangkok	1658	airplane	6	100	India, Thailand
20	Bangkok-Hat Yai	945	long-distance	16	30	Thailand
21	Hat Yai-Singapore	890	Coach	12	30	Thailand, Malaysia, Singapore
22	Singapore-Buka	6001	airplane	8	837.98	Singapore, Papua New Guinea

Total emissions	2249.36
Total coach	140.3733732
International rail Kiel-Milan	7.6
Total international rail	20
Total ferry	19.60
Taxi	91.3973791
Shared car	36.41375546
Flight Kolkata-Bangkok	362
Singapore-Mosby-Buka	1672
Police convoy	0

NB: Attributed 0 emissions to police convoy emissions because it would have travelled anyway.

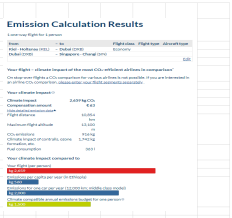
Total distance	21769
Coach	5061
International rail Kiel-Mil	1244
Long-distance rail	4578
Ferry	1046
Taxi (incl. airport pick-up	598
Shared car	953
Flight Kolkata-Bangkok	1658
Singapore-Mosby-Buka	6001
Police convoy	630
Proportion of trip overland	57.55%
Difference in emissions	-2349
Proportion of slow-travel emissions compared to airplane (%)	#DIV/0!
Excluding Singapore-Port Moresby	
Proportion of trip overland	59.26%
Difference in emissions	8177
Proportion of slow-travel emissions compared to airplane (%)	22.32%

Total duration	330
Total coach	85
International rail Kiel-Milan	14
Total international rail	64
Ferry	33
Coach	85
Taxi	7
Shared car	12
Airplane	14
Police convoy	16

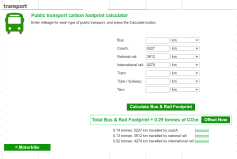
Total expenses	2068.98
Coach	180
International rail Kiel-Milan	180
Total international rail	175
Total ferry	161
Taxi	85
Airplane	937.98
Visas	350

Total count	23
Coach	11
Internationa	1
long-distanc	4
Ferry	2
taxi	2
Shared car	1
Airplane	2
Police convo	2

Emission Calculation Results



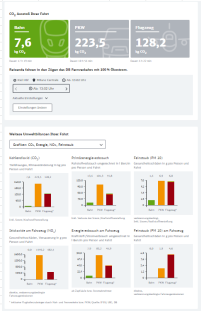
Emission from non-airplane means of transport



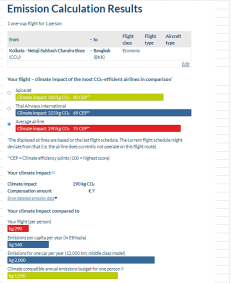
DEFRA Conversion tables

	kg of CO2 passenger km	Kiel-Milan with respect to flying (%)
Ferry	0.018718	13.46
Rail national	0.03694	26.57
Rail international	0.00497	3.57
Flight (international)	0.1392452	100.00
Coach	0.027312	19.62

Kiel-Milan



Emission Calculation Results



Stage	Travel plan	Distance (km)	Means of transport	Duration (hours)	Expenses (€)	Country	Taxi
1	Buka-Rabaul	306	cargo ship	24	0	Papua New Guinea	1
2	Rabaul-Lae	923	ferry	63	111.3	Papua New Guinea	
3	Lae-Madang	337	van	6	21.2	Papua New Guinea	1
4	Madang-Vanimo	677	ferry	63	143.1	Papua New Guinea	
5	Vanimo-Jayapura	97	shared taxi	2	25	Papua New Guinea/Indonesia	
6	Jayapura-Surabaya	4000	ferry	131	88	Indonesia	1
7	Surabaya-Yogyakarta	312	train	4	10	Indonesia	1
8	Yogyakarta-Semarang	115	train	3	10	Indonesia	1
9	Semarang-Jakarta	456	train	5	30	Indonesia	1
10	Jakarta-madan	1830	coach	67	40	Indonesia	1
11	medan-Singapore	889	ferry	25	30	Indonesia/Singapor	1
12	Singapore-Hat Yai	890	coach	12	30	Singapore, Malaysia	1
13	Hat Yai-Bangkok	945	train	16	30	Thailand	1
14	Bangkok-Udon Thani	580	coach	10	10	Thailand	2
15	Udon Thani-Vientiane	100	van	2		Thailand, Laos	1
16	Vientiane-luang prabang	310	train	2	28	Laos	1
17	Luang Prabang-Kunming	615	train	8	50	Laos, China	1
18	Kunming-Chengdu	850	train	6	60	China	1
19	Chengdu-Kashgar	3950	train	54	100	China	1
20	Kashgar-Tashkurgan	280	van	4	60	China	1
21	Tashkurgan-Murgab	80	truck	5	0	China/Tajikistan	
22	Murgab-Khorog	313	van	8	40	Tajikistan	1
23	Khorog-Dushanbe	595	van	20	90	Tajikistan	2
24	Dushanbe-Samarkand	296	shared taxi	5	30	Tajikistan, Uzbekistan	
25	Samarkand-Bukhara	270	train	2	40	Uzbekistan	1
26	Bukhara-Merv	355	taxi	6		Uzbekistan, Turkmenistan	
27	Merv-Ashgabat	409	train	8	10	Turkmenistan	
28	Ashgabat-Mashaad	278	taxi	4	30	Turkmenistan, Iran	
29	Mashaad-Tehran	900	coach	9	10	Iran	1
30	Tehran-Istanbul	2430	coach	39	50	Iran, Turkey	1
31	Istanbul-Thessaloniki	600	coach	8	40	Turkey, Greece	1
32	Thessaloniki-Igoumenitsa	323	coach	5	30	Greece	1
33	Igoumenitsa-Bari	380	ferry	9	80	Greece, Italy	
34	Bari-Milan	886	train	9	130	Italy	1
35	Milan-Kiel	1244	train	14	70	Italy, Switzerland, Germany	

Total emissions	556.78
Total coach	209.4922125
Train	47.43398864
Ferry	128.711322
Taxi	111.0524017
Shared car	15.01637555
Truck	0
Van	45.07147429
Cargo ship	0

Total distance	28226
Coach	7553
Train	10362
Ferry	6869
Taxi	1038
Shared car	393
Truck	80
Van	1625
Cargo ship	306

49995

Total duration	671.5
Coach	150
Train	131
Ferry	291
Taxi	23.5
Shared taxi	7
Truck	5
Van	40
Cargo ship	24

Total expenses	1526.6
Coach	210
Train	568
Ferry	452.4
Taxi	30
Shared taxi	55
Truck	0
Van	211.2
Cargo ship	0

Total count	31
coach	7
Internationa	1
train	12
Ferry	5
cargo ship	1
van	5
Airplane	0
truck	1
shared taxi	2

Total inbound outbound	
Coach	18
Trains	18
Ferry	7
Cargo ship	1
van(shared taxi	8
truck/hitch-hike	2
Police convoy	2
Airplanes	2

Notes:

Attributed 0 emissions to cargo ships and truck travel (because they weren't passengers service).

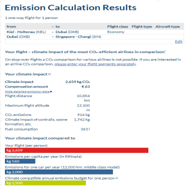
Milan-Kiel train emitted 7.6kg as per DeutscheBahn calculator

Added an estimated 15km of taxi travel for each time I took a taxi.

NB: Taxis in Iran and Turkmenistan travel on gas, which emits 30% less than petroleum.

42336

Total duration outbound + inbound	946.5
Coach	235
Train	239
Ferry/cargo ship	348
Taxi	30.5
Shared taxi	19
Truck	5
Van	40
Police convoy	16
Airplane	14



Emission Calculation Results

1 one-way flight for 1 person

from	– to	Flight class	Flight type	Aircraft type
Kiel - Holtenau (KEL)	– **Dubai** (DXB)	Economy		
Dubai (DXB)	– **Singapore - Changi** (SIN)			

Edit

Your flight – climate impact of the most CO_2-efficient airlines in comparison*

On stop-over flights a CO_2 comparison for various airlines is not possible. If you are interested in an airline CO_2 comparison, please enter your flight segments separately .

Your climate impact

Climate impact	2,659 kg CO_2
Compensation amount	€ 63

Hide detailed emission data▲

Flight distance	10,854 km
Maximum flight altitude	13,100 m
CO_2 emissions	916 kg
Climate impact of contrails, ozone formation, etc.	1,742 kg
Fuel consumption	363 l

Your climate impact compared to

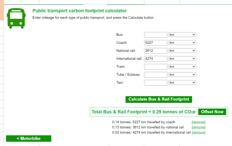
Your flight (per person)
kg 2,659

Emissions per capita per year (in Ethiopia)
kg 560

Emissions for one car per year (12,000 km; middle class model)
kg 2,000

Climate compatible annual emissions budget for one person
kg 1,500

Milan-Kiel	1244	international rail Kiel-Milan	14	180	Germany, Switzerland, Italy



Public transport carbon footprint calculator

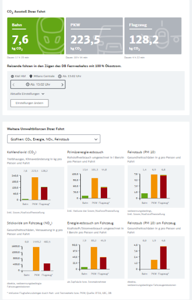
Enter mileage for each type of public transport, and press the Calculate button

Bus:		km
Coach:	5227	km
National rail:	3612	km
International rail:	4274	km
Tram:		km
Tube / Subway:		km
Taxi:		km

Total Bus & Rail Footprint = 0.29 tonnes of CO_2e

0.14 tonnes: 5227 km travelled by coach [remove]
0.13 tonnes: 3612 km travelled by national rail [remove]
0.02 tonnes: 4274 km travelled by international rail [remove]

Kiel-Milan



CO_2 Ausstoß Ihrer Fahrt

Bahn 7,6 kg CO_2 — Dauer: 17 h 19 min
PKW 223,5 kg CO_2 — Dauer: 10 h 54 min
Flugzeug 128,2 kg CO_2 — Dauer: 4 h 22 min

Reisende fahren in den Zügen des DB Fernverkehrs mit 100 % Ökostrom.

Kiel Hbf · Milano Centrale · Ab: 13:02 Uhr

Weitere Umweltbilanzen Ihrer Fahrt

Grafiken: CO_2, Energie, NOx, Feinstaub

Kohlendioxid (CO_2) – Treibhausgas, Klimaveränderung in kg pro Person und Fahrt – Inkl. Strom-/Kraftstoffherstellung

Primärenergieverbrauch – Rohstoffverbrauch umgerechnet in l Benzin pro Person und Fahrt – Inkl. Verluste der Strom-/Kraftstoffherstellung

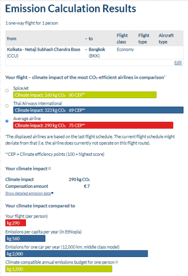
Feinstaub (PM 10) – Gesundheitsschäden in g pro Person und Fahrt – verbrennungsbedingt, Inkl. Strom-/Kraftstoffherstellung

Stickoxide am Fahrzeug (NO_x) – Gesundheitsschäden, Versauerung in g pro Person und Fahrt – direkte, verbrennungsbedingte Fahrzeugemissionen

Energieverbrauch am Fahrzeug – Kraftstoff-/Stromverbrauch umgerechnet in l Benzin pro Person und Fahrt – ab Zapfsäule bzw. Stromabnehmer

Feinstaub (PM 10) am Fahrzeug – Gesundheitsschäden in g pro Person und Fahrt – direkte, verbrennungsbedingte Fahrzeugemissionen

* inklusive Flughafenzubringer durch Nah- und Fernverkehr bzw. PKW; Quelle: IFEU, UIC, DB



Emission Calculation Results

1 one-way flight for 1 person

from	– to	Flight class	Flight type	Aircraft type
Kolkata - Netaji Subhash Chandra Bose (CCU)	– **Bangkok** (BKK)	Economy		

Edit

Your flight – climate impact of the most CO_2-efficient airlines in comparison*

○ SpiceJet
Climate impact: 260 kg CO_2 80 CEP**

○ Thai Airways International
Climate impact: 323 kg CO_2 69 CEP**

● Average airline
Climate impact: 290 kg CO_2 75 CEP**

*The displayed airlines are based on the last flight schedule. The current flight schedule might deviate from that (i.e. the airline does currently not operate on this flight route).

**CEP = Climate efficiency points (100 = highest score)

Your climate impact

Climate impact	290 kg CO_2
Compensation amount	€ 7

Show detailed emission data▼

Your climate impact compared to

Your flight (per person)
kg 290

Emissions per capita per year (in Ethiopia)
kg 560

Emissions for one car per year (12,000 km; middle class model)
kg 2,000

Climate compatible annual emissions budget for one person
kg 1,500

Day of travel	Date	Weekday	Stage	Stay	Events	Distance (km)	Means of transport	Duration (hours)	Expenses (€)	Country	Sleeping arrangement	Latitude	Longitude	Distance	Duration	Transfer speed (Km/h)
0	7/10/23	Sat	0	Hangan	Departure day delayed due to rioting in Rabaul (first destination)					Papua New Guin	Bedroom/home					
0	14/10/2023	Sat	0	Hangan-Buka	Told by ship owner to get ready, d	7	Taxi	0.15	5		Bedroom/home					
1	15/10/2023	Sun	0	Buka	Go to Kute Shipping wharf late morning after checkout.Uploading of copra and beetlenut still ongoing. Embark around 4p						Ship	-5.4	154.6			
2	16/10/2023	Mon	1	Buka-Rabaul	No sign ship will set off. Manage t	306	Cargo ship	24	0		Ship	-4.2	152.1645	310	24	12.91666667
3	17/10/2023	Tue	1	Rabaul	Wake up in front of New Ireland,then arrive in Rabaul, East New Britain. Previously been told departure with ferry may be						Ship					
4	18/10/2023	Wed	1	Rabaul	Get out of compound with (slow-walking) escort (from local security). Go to National Maritime Authority (NMA) but it's c						Ship					
5	19/10/2023	Thu	1	Rabaul	Go to NMA . Speak with manager on phone. He says he's optimistic I can get authorisation if cargo company applies. Go t						Ship					
6	20/10/2023	Fri	1	Rabaul	Without any prior notice, ship changes wharf. We are now at compound of a coconut oil producer, just 5 mins navigation						Ship					
7	21/10/2023	Sat	1	Rabaul	Escort from day before doesn't show up. Ask occasional clients to the compound to escort me. Shop at market. Ferry company owner						Ship					
8	22/10/2023	Sun	1	Rabaul	No mates! Wake up early to participate in TV programme in national Italian TV. Disappointed we only talk about my travel						Ship					
9	23/10/2023	Mon	1	Rabaul	Still no answer from the ferry company departing on Friday. I write to other ferry company and tell me they have no polic						Ship					
10	24/10/2023	Tue	1	Rabaul	Big news! The ferry company departing on Friday gives me all clear to embark with them! The owner jut tells me to go an						Ship					
11	25/10/2023	Wed	1	Rabaul	Go and speak with ferry company owner. He tells me the condition is strictly no photos/videos of the ship. Not clear why						Ship					
12	26/10/2023	Thu	1	Rabaul	Interview with Italian radio at 6.15am. Go back to sleep and wake up late. Want to go and visit Rabaul museum. Get there						Ship					
13	27/10/2023	Fri	1	Rabaul-Lae	Get up early. I postpone visit to Rabaul museum. Gotta do another video for gramellini. Very hot. Get my luggage sorted.						Ship					
14	28/10/2023	Sat	1	Rabaul-Lae	Stop in Kimbe but don't get off. Keep on working.Meet Nixon who also travels to Madang and Wewak. Sleep quite well.						Ship					
15	29/10/2023	Sun	1	Rabaul-Lae	Stop at Suasui island. Wash in river. Attempted theft of mobile phone+gimbal. My companion (allegedly son of ex-Prime M						Ship	-6.7221	146.9847	780	62	12.58064516
16	30/10/2023	Mon	2	Lae-Madang	Bus comes at port at 7.30am. Have to buy extra seats for my luggalge. Bus refuses to set off until it's full. 6 hours drive. Rc						Hotel	-5.2219	145.7856	300	7	42.85714286
17	31/10/2023	Tue	2	Madang-Wewak	Buy ticket in the morning. Hotel manager carries me. Unsafe to walk in neighborhood because of illegal settlements. go b						Ship					
18	01/11/2023	Wed	2	Wewak-Vanimo	Manage to visit ethnographic museum. Photos prohibited but OK after I pay a fee. Wonderful masks and legends. Wait a l						Ship					
19	02/11/2023	Thu	3	Vanimo	Hope to cross the border but it is shut due to protest. Get to know Dove and Seraphine. Find space in diocese for the nigh						Guesthouse					
20	03/11/2023	Fri	4	Jayapura	Border crossing OK. Manage to buy third class ticket for day after. Try to set up mobile phone number but it doesnt work						Hotel					
21	04/11/2023	Sat	4	Jayapura-Java	Depart at 6.30am. I am told buy hotel receptionists that I should embark much earlier but not true. Refuse bloddy expens						Ship					
22	05/11/2023	Sun	4	Jayapura-Java	Ship is huge, it's like they have 4 classes. Get friends with fellow travellers. Sleep in 3rd class.						Ship					
23	06/11/2023	Mon	4	Jayapura-Java	Dove gets off in Sorong. I change bed. In pause in Sorong I get to town to try to get SIM card but to no avail. Get a scooter						Ship					
24	07/11/2023	Tue	4	Jayapura-Java	Get a routine now. I make new friends. Go to work on sundeck. Ask dancing class to young physics.						Ship					
25	08/11/2023	Wed	4	Jayapura-Java	Big man from Timor Leste comes onboard. Someone tells me he'll cut my head the day after. In the meantime, he offers s						Ship					
26	09/11/2023	Thu	4	Surabaya-Yogjaka	Arrival in Subaraya in late afternoon. Can't bear the traffic. Train to Yogjakarta.						Hostel					
27	10/11/2023	Fri	5	Yogjokarta	Rest in lovely hostel. Nice wooden room in art studio.						Hostel					
28	11/11/2023	Sat	5	Yogjokarta	Vist to Penambaran. Then dinner (carlos talkative guy). Then wonderful show with Java dance						Hostel					
29	12/11/2023	Sun	5	Yogjokarta	Visit to water temple wih Regina. Sunobudoyo musuem. Bad quality Java theatre at night. Actors ask me to go to centre i						Hostel					
30	13/11/2023	Mon	6	Yogjokarta-Semar	Post office takes ages to send parcel. Miss train. Manage to get to Semarang at 19.30 anyway. Meet couchsurfer Melisa						Hotel					
31	14/11/2023	Tue	6	Semarang-Jakarta	Full visit to Semarang with Melisa. Impressed by railways HQ. Uni teacher expert in conservation and decoration helps me						Couchsurfing					
32	15/11/2023	Wed	7	Jakarta	Rest in the morning. Go to museum in the afternoon but I find it closed. Go to National Museum in the evening but it is cl						Couchsurfing					
33	16/11/2023	Thu	7	Jakarta	Visit old town museum in the morning and mini-Jakarta in the afternoon.						Couchsurfing					
34	17/11/2023	Fri	7	Jakarta-Medan	get on board bus. bus change because A/C doesn't work. feel headache.						Coach					
35	18/11/2023	Sat	7	Jakarta-Medan	Can't sleep properly b/c of headache. Fear I have dengue fever, as I got battered with mosquito bites the night before. Bu						Coach					
36	19/11/2023	Sun	7	Jakarta-Medan	Get friend with my neighbour. He gives me a little flower from Java mountain.						Coach					
37	20/11/2023	Mon	8	Medan	Arrive to Medan with 8 hours delay, early morning. Get to Serena hotel (will probably be charged twice). need to rest. the						Hotel					
38	21/11/2023	Tue	9	Medan-Singapore	Get onboard of the ship. Nice location in 3rd class. Indigenous group quite aggressive. speak good english. want to sell mi						Ship					
39	22/11/2023	Wed	10	Singapore-Hat Ya	Just a few hours in Singapore. Manage to visit again history museum, only if a few hours. Journalist from FAZ doesn't have						Coach					
40	23/11/2023	Thu	11	Hat-Yai-Bangkok	Difficult to find a place on either train or bus. In the end I find a hard seat ticket. Sleep only 3 hours as I work hard.						Train					
41	24/11/2023	Fri	11	Bangkok	Apply for Chinese visa. See Chan Chan.						Hotel					
42	25/11/2023	Sat	11	Bangkok	Grand palace and national museum						Hotel					
43	26/11/2023	Sun	11	Bangkok	Chatuchat market						Hotel					
44	27/11/2023	Mon	12	Ayuttaya	Hire scooter to move around with Chanchan. Wonderful Sundown festival at temple on the riverside. Floating baskets cer						Hotel					
45	28/11/2023	Tue	13	Bangkok-Udan Th	Spent most of the day trying to recover my paypal account to be able to launch crowdfunding campaign. Lost my only fun						Coach					
46	29/11/2023	Wed	14	Udan Thani-Vient	Arrive 6am in the morning. Not possible to leave luggage behind. Love my visit to Bang Chao archeological site from Bron						Hotel					
47	30/11/2023	Thu	15	Vientane-Luang V	Visit to National Museum in the morning. Difficult to find it. Only one hour but enjoy archeological remains and accounts						Hostel					
48	01/12/2023	Fri		Luang Prabang	Get to nice riverside hostel. Try to get my Paki visa sorted but impossible b/c mobile phone doesn't work so I can't get thr						Hostel					
49	02/12/2023	Sat		Luang Kunming	Shoot video for La7 TV early in the morning. Train to Kunming, travel the whole day. No videos inside train. They look like						Hotel					
50	03/12/2023	Sun		Kunming-Chengd	Train for Chengdu. Arrive in the evening to couchsurfer Jane.						Couchsurfing					
51	04/12/2023	Mon		Chengdu	Find out mountain pass to Pakistan is blocked. Need to design new itinerary. Decide to try Tajikistan - Uzbekistan - Turkme						Couchsurfing					
52	05/12/2023	Tue		Chengdu- Kashgar	Morning spent on visas. After chinese class and piano class very nearly miss the train.						Train					
53	06/12/2023	Wed		Chengdu- Kashgar	Desert and funny old man intrigued by my gimbal.						Train					
54	07/12/2023	Thu		Chengdu- Kashgar	Desert. Train nearly empty at arrival. Find only one hotel accepting foreigners. Very welcoming, nice simple decor. Staff ta						Train					
55	08/12/2023	Fri		Kashgar	Got work to do on paper to resubmit. Work out nice statistical model. Cannot visit Kashgar downtown. Western Union tra						Hostel					
56	09/12/2023	Sat		Kashgar	Visit to Kashgar old town. Wonderful. Seems to have been left the same as when used by silk road travellers. Visit mosqu						Hostel					
57	10/12/2023	Sun		Kashgar	Visit to cows and goats market. Buy a warm jacket for Qorma pass.						Hostel					
58	11/12/2023	Mon		Kashgar	Need to apply for new SIM card. Spend hours for that. Also some extra money. Buy some electronic appliances. Paypal bli						Hostel					
59	12/12/2023	Tue		Kashgar-Murgub	Difficult to find transport. Find it in the end but decide to wait fellow passengers. Need to buy special pass for border are						Guesthouse					
60	13/12/2023	Wed		Murgub-Khorog	Only few hours to visit Murghob in the morning. Speak with Sherali, owner of guesthouse, about climate change. Get on t						Hotel					
61	14/12/2023	Thu		Khorog-Dushanb	get to bus station too late. Bargain to get me a place on last van. Pay twice as much money as standard ticket. 4 on the ba						Van					
62	15/12/2023	Fri		Dushanbe	Paper has been submitted without final comments. Impossible to find money and SIM card. Visit city centre. National mu						Hostel					
63	16/12/2023	Sat		Dushanbe-Samar	Get to wrong bus terminal. Get to another one. Sit in the back of a car. Sleep. Wonderful scenery. I was told bettter to trav						Hotel					
64	17/12/2023	Sun		Samarkand-Bukh	Visit bazar in the morning and do some shopping. Train in the afternoon. then get to border. Guide awaits for me.						Hotel					
65	18/12/2023	Mon		Gurun Tepe	Drive to archeological site. Problem with my visa b/c Western Union transfer is impossible. Nice visit in the end. Overnight train to Ashg						Train					
66	19/12/2023	Tue		Ashgabat-Mashai	Spend whole morning dealing with Iran visa. Get it fortunately. Get to the border. Then drive with self-talking driver. Get t						Coach					
67	20/12/2023	Wed		Tehran-Istanbul	Connection to Istanbul OK. Get lost at the border, but just have to wait.						Coach					
68	21/12/2023	Thu		Tehran-Istanbul	Teahouse at roadside cafe. Get to Istanbul at night. Work on my blog.						Hotel					
69	22/12/2023	Fri		Istanbul-Thessalc	Get bus around midday. Arrive to hotel in the evening. Dinner at restaurant. Can't stand "movida" nights. Long rant at vid						Hotel					
70	23/12/2023	Sat		Thessalonikki-Igo	Early bus. Spend afternoon at bar. No visit of yet another museum - though I would have loved it. Embark on ship at night						Ship					
71	24/12/2023	Sun		Igoumenitsa-Bari	Sleep in common room. Arrive to Bari. Wait a lot for the bus. Meet Serena. Afternoon train to Milan. Can't believe I am b						Home					
72	4/1/24	Mon		Milano-Kiel	Maybe last train journey from Milan to Kiel.						Home					

Sleeping arrangements total

Ship	24
Hotel	15
Guesthouse	2
Hostel	11
Coach/Van	8
Train	5
Couchsurfing	5
Home	2
	72

	Countries outbound		Countries inbound
1	Germany	1	Papua
2	Switzerland	2	Indonesia
3	Italy	3	Singapore
4	Greece	4	Malaysia
5	Turkey	5	Thailand
6	Iran	6	Laos
7	Pakistan	7	China
8	India	8	Tajikistan
9	Thailand	9	Uzbekistan
10	Malaysia	10	Turkmenistan
11	Singapore	11	Iran
12	Papua	12	Turkey
		13	Greece
		14	Italy
		15	Switzerland
		16	Germany

	Distance	Emissions (CO2-eq) round trip	Emissions one-way	
Kiel-Buka	27538	**10526**	5263	
Source:	https://www.atmosfair.de/en/offset/flight/			
Singapore-POM-Buka	6001	1672		

Emission Calculation Results

1 round-trip flight for 1 person

from	– to	Flight class	Flight type	Aircraft type
Kiel - Holtenau (KEL)	– **Buka Is.** (BUA)	Premium Economy		

Edit

Your flight – climate impact of the most CO_2-efficient airlines in comparison*

There is insufficient data for a comparison of the various specific airline CO_2 emissions on this flight route.

Your climate impact

Climate impact	**10,526 kg CO_2**
Compensation amount	**€ 243**
Hide detailed emission data	
Flight distance	27,538 km
Maximum flight altitude	12,500 m
CO_2 emissions	3,554 kg
Climate impact of contrails, ozone formation, etc.	6,971 kg
Fuel consumption	1,406 l

Your climate impact compared to

Your flight (per person)

kg 10,526

Emissions per capita per year (in Ethiopia)

kg 560

Emissions for one car per year (12,000 km; middle class model)

kg 2,000

Climate compatible annual emissions budget for one person

kg 1,500

22350

Emission Calculation Results

1 one-way flight for 1 person

from	– to	Flight class	Flight type	Aircraft type
Kolkata - Netaji Subhash Chandra Bose (CCU)	– **Bangkok** (BKK)			

Edit

Your flight – climate impact of the most CO_2-efficient airlines in comparison*

- SpiceJet — Climate impact: 325 kg CO_2 80 CEP**
- Thai Airways International — Climate impact: 404 kg CO_2 69 CEP**
- ◉ Average airline — Climate impact: 362 kg CO_2 75 CEP**

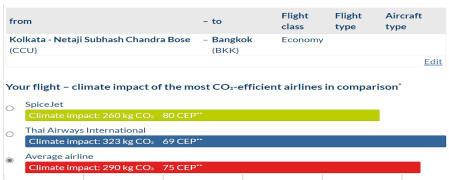
*The displayed airlines are based on the last flight schedule. The current flight schedule might deviate from that (i.e. the airline does currently not operate on this flight route).

**CEP = Climate efficiency points (100 = highest score)

Your climate impact

Climate impact	**362 kg CO_2**
Compensation amount	**€ 9**
Hide detailed emission data	
Flight distance	1,658 km

CO2 conversion factors Germany	https://nachhaltigkeit.deutschebahn.com/en/measures/environmental-mobility-check						
CO2 calculator Deutsche Bahn trans	https://www.umweltmobilcheck.de/						
CO2 calculator	https://www.carbonfootprint.com/calculator.aspx						
CO2 calculator for flights	https://www.atmosfair.de/en/offset/flight/						
DEFRA Conversion tables		Ratios with respect to flying (%)					
Ferry kg/passenger km	0.018738	13.4568372					
Rail national	0.03694	26.5287421					
Rail international	0.00497	3.56924332					
Flight (international)	0.139245	100					
Coach	0.02732	19.6200659					
Other data:							
Total CO2 emissions (tons of CO2 in 2	3600000000	0.000000005					
Return Milan-London private jet fligh	500						
annual emission by a car	2000						
Relationship between CO2 emissions and temperature increase							
1.2	Temperature increase						
1.5	thousand of gigatonnes CO2 emitted						
0.8							



	Kolkata-Bangkok (plane)	0.29		Kolkata-Singapore	605			
	Coach Bangkok-Singapore	0.05						
		0.34						
	Travelling by plane+coach from Kolkata to Singapore saves 0,27 tonnes of CO2