Overall results of Artelia's carbon footprint 2024

Methodology : GHG Protocol

In 2024, Artelia generated:

114 521
tCO2e

99,6
gCO2/€ revenue

11,3
tCO2/ETP

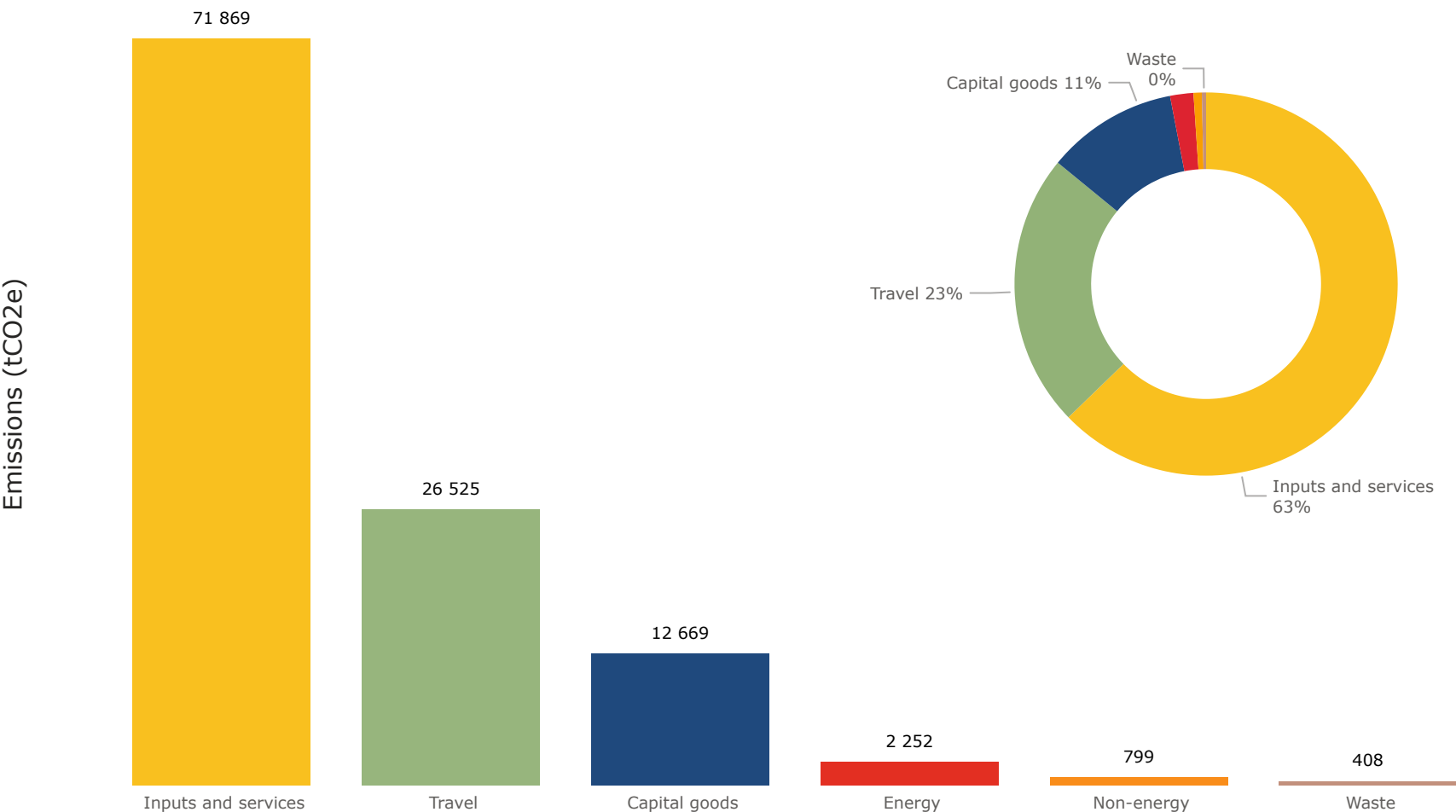This is equivalent to the emissions of:

11 500
Average French people

57 500
Round trip Paris/NY

Breakdown of emissions by emission category (in tCO2e)

Emissions (tCO2e)

- 71 869 — Inputs and services
- 26 525 — Travel
- 12 669 — Capital goods
- 2 252 — Energy
- 799 — Non-energy
- 408 — Waste

Capital goods 11%
Waste 0%
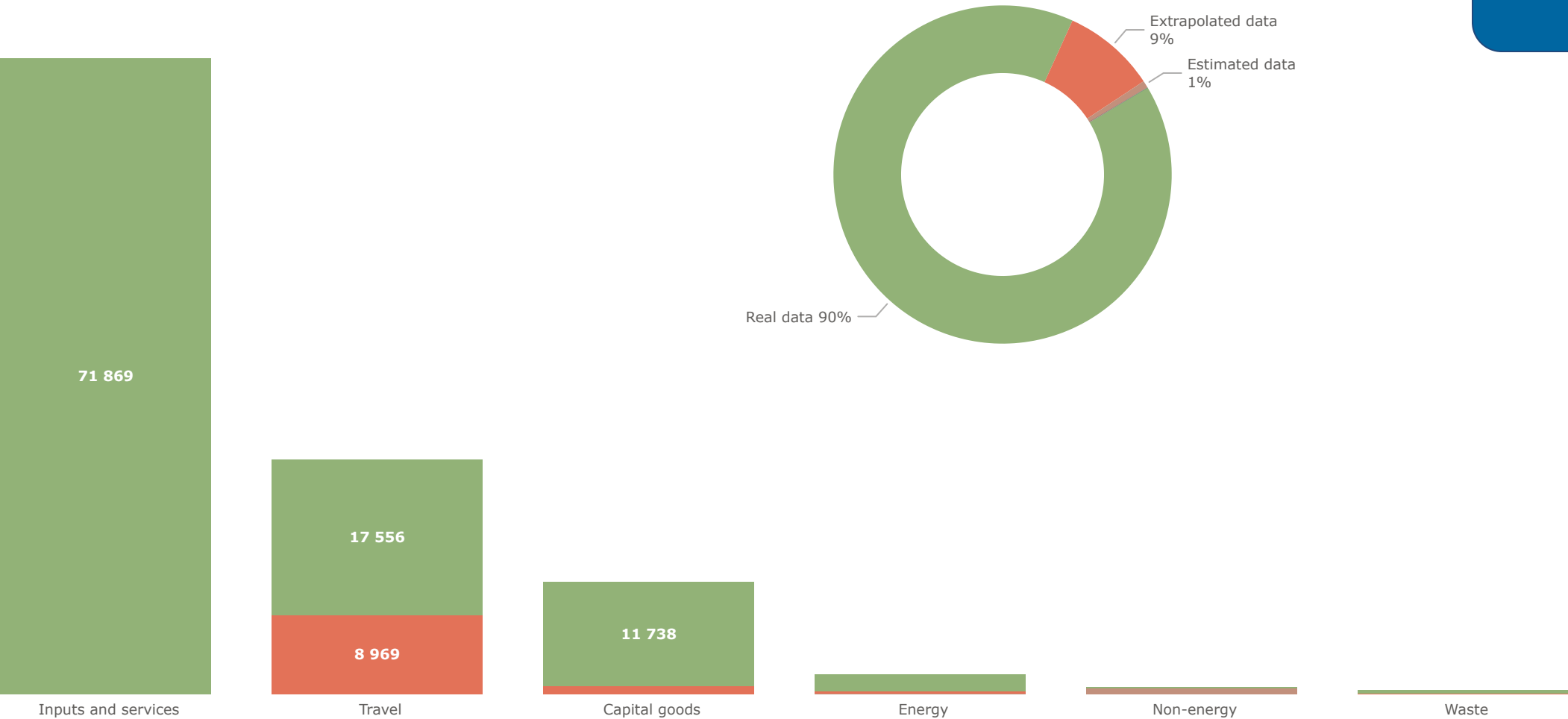Travel 23%
Inputs and services 63%

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Overall results of Artelia's carbon footprint 2024

Methodology : GHG Protocol

Breakdown of emissions per type of data (in tCO2e)
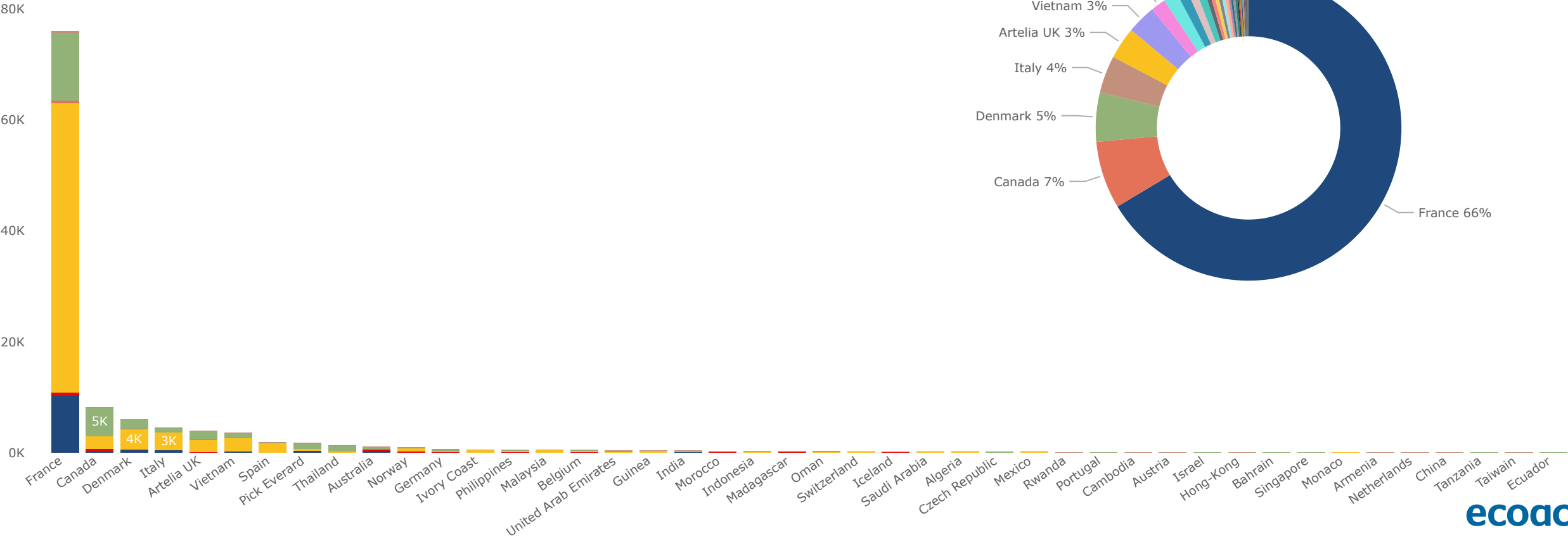
● Estimated data ● Extrapolated data ● Real data

114 521
tCO2e

Extrapolated data 9%

Estimated data 1%

Real data 90%

71 869

17 556

8 969

11 738

Inputs and services | Travel | Capital goods | Energy | Non-energy | Waste

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Overall results by country

114 521
tCO2e

Breakdown of emissions by country and by category

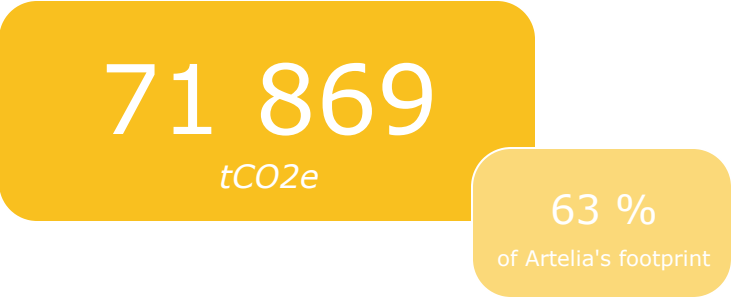● Capital goods ● Energy ● Inputs and services ● Non-energy ● Travel ● Waste

Bar chart (y-axis 0K–80K tCO2e) of emissions by country and category, for: France, Canada, Denmark, Italy, Artelia UK, Vietnam, Spain, Pick Everard, Thailand, Australia, Norway, Germany, Ivory Coast, Philippines, Malaysia, Belgium, United Arab Emirates, Guinea, India, Morocco, Indonesia, Madagascar, Oman, Switzerland, Iceland, Saudi Arabia, Algeria, Czech Republic, Mexico, Rwanda, Portugal, Cambodia, Austria, Israel, Hong-Kong, Bahrain, Singapore, Monaco, Armenia, Netherlands, China, Tanzania, Taiwain, Ecuador.

Emissions per country

Donut chart of emissions per country:
- United Arab Emirates 0%
- Thailand 1%
- Spain 2%
- Vietnam 3%
- Artelia UK 3%
- Italy 4%
- Denmark 5%
- Canada 7%
- France 66%

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Scope 3
Inputs and services

71 869
tCO2e

63 %
of Artelia's footprint

Services 41%

Collective cattering 1%

Assembly purchasing 57%

Breakdown of emissions by type of assembly purchased (tCO2e)

	tCO2e
Building	12,1K
Demolition	26,9K
Energy	0,2K
Industry	1,7K
Transportation	0,2K
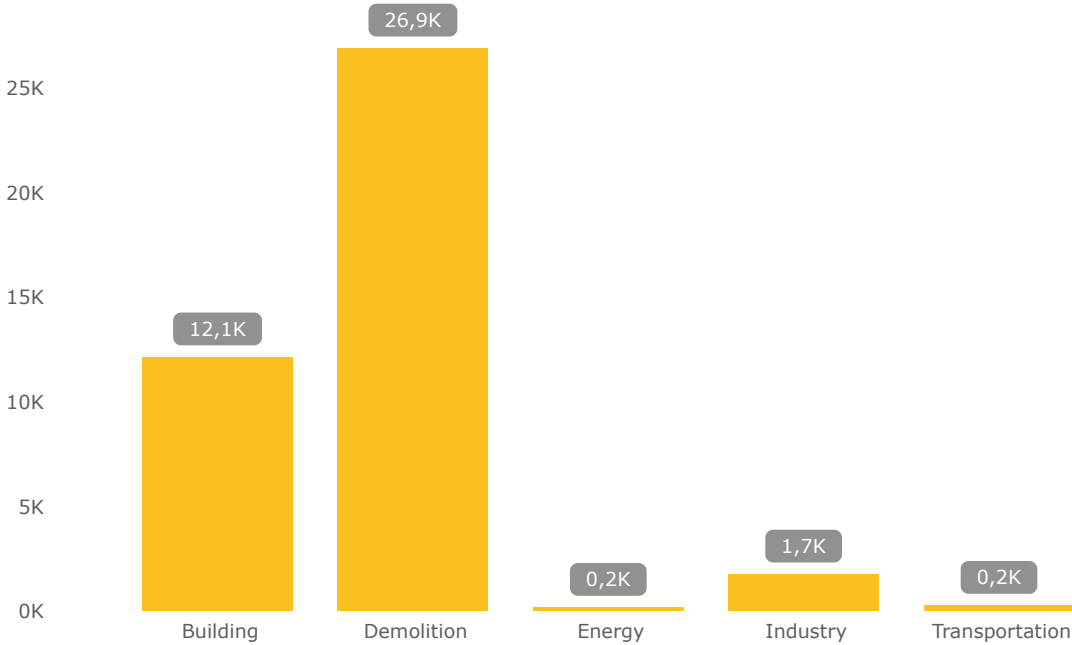
Focus on the most emissive service purchases (tCO2e)
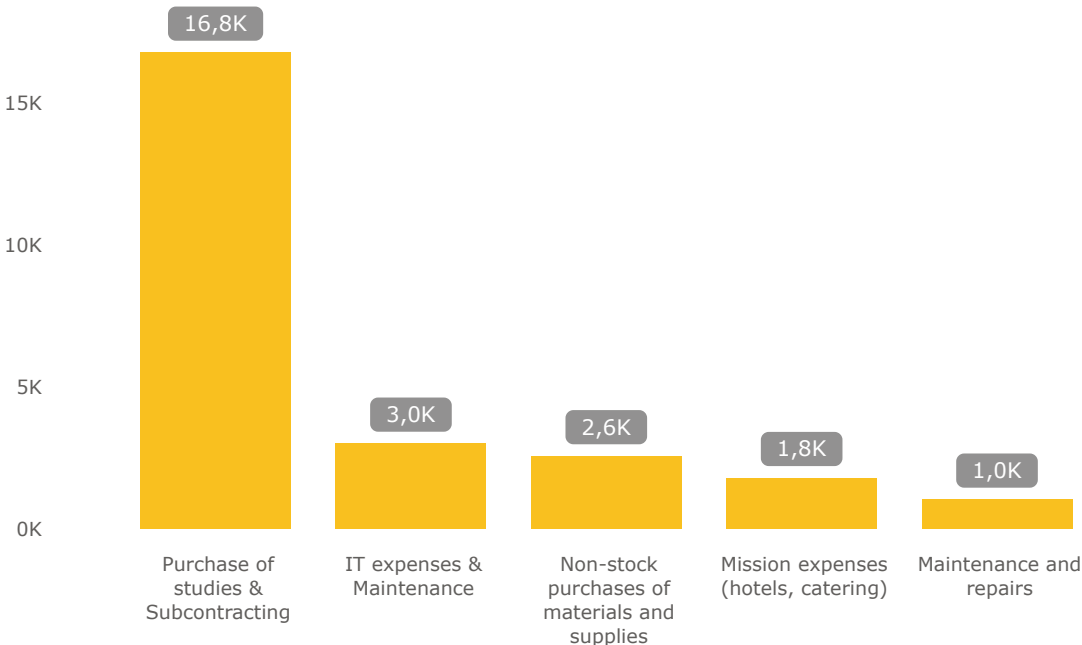
	tCO2e
Purchase of studies & Subcontracting	16,8K
IT expenses & Maintenance	3,0K
Non-stock purchases of materials and supplies	2,6K
Mission expenses (hotels, catering)	1,8K
Maintenance and repairs	1,0K

*NB: t*o ensure accuracy, only Artelia-provided data are shown in these graphs, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category
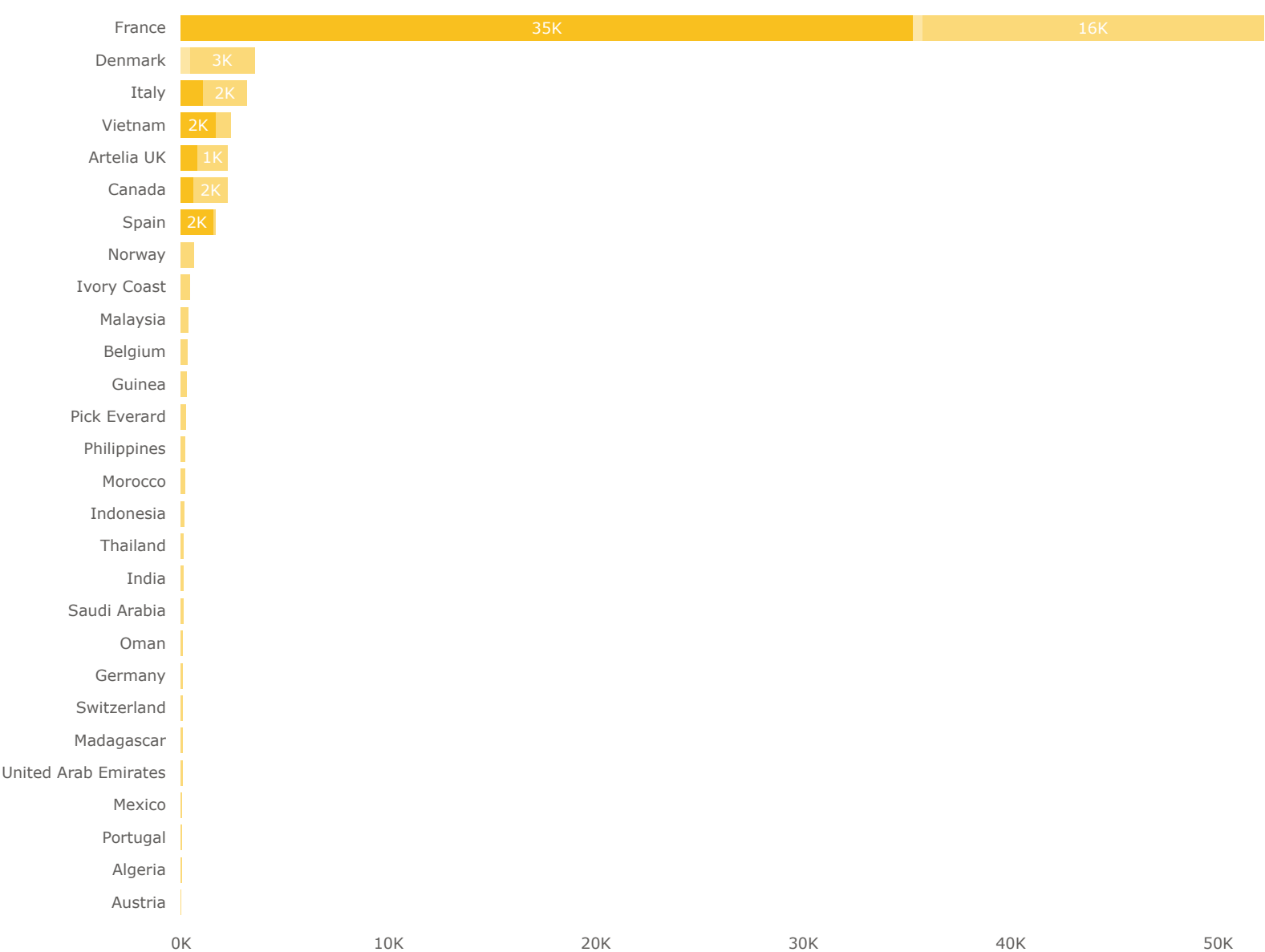
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Scope 3
Inputs and services

71 869

tCO2e

63 %
of Artelia's footprint

Breakdown of inputs and services emissions by country (tCO2e)

● Assembly purchasing ● Collective cattering ● Services

Country	Value
France	35K — 16K
Denmark	3K
Italy	2K
Vietnam	2K
Artelia UK	1K
Canada	2K
Spain	2K
Norway	
Ivory Coast	
Malaysia	
Belgium	
Guinea	
Pick Everard	
Philippines	
Morocco	
Indonesia	
Thailand	
India	
Saudi Arabia	
Oman	
Germany	
Switzerland	
Madagascar	
United Arab Emirates	
Mexico	
Portugal	
Algeria	
Austria	

0K   10K   20K   30K   40K   50K

Scope 1,2,3
Travel

26 525
tCO2e

23 %
of Artelia's footprint

Breakdown of transport emisions by country and travel category (tCO2e)

● Business travel ● Home-work commuting

Breakdown of emissions by travel categories (tCO2e)

Home-work commuting
39%
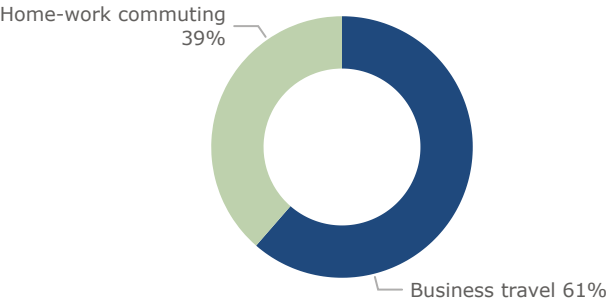
Business travel 61%

Theme	GHG Protocol Categories	Emissions (tCO2e)
Business travel	1-2 Emissions from mobile combustion sources	3 715
Business travel	2-1 Indirect emissions from electricity consumption	153
Business travel	3-3 Emissions related to fuels and energy (not included in scope 1 or 2)	887
Business travel	3-6 Business travel	11 532

France 9,0K — 3,2K — 12K
Canada 1,6K — 3,5K — 5K
Denmark 0,6K — 1,0K — 2K
Artelia UK 1,3K — 2K
Thailand 0,9K — 1K
Pick Everard 0,6K — 1K
Vietnam 0,5K — 1K
Italy 1K
Australia 0K
Germany 0K
United Arab Emirates 0K
Norway 0K
Philippines 0K
Spain 0K
Indonesia 0K
Madagascar 0K
Belgium 0K
India 0K
Switzerland 0K
Czech Republic 0K
Iceland 0K
Morocco 0K
Rwanda 0K
Oman 0K
Ivory Coast 0K
Malaysia 0K
Hong-Kong 0K
Algeria 0K

0K   2K   4K   6K   8K   10K

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Scope 1,2,3
Business travel

16 287
tCO2e

14 %
of Artelia's footprint

Breakdown of emissions by travel category (tCO2e)

- Plane
- Car
- Mileage allowance
- Taxi
- Train
- Bus
- Subway, tramway
- Metro/tramway
- Moto/scooter

39%
2%
8%
20%
31%

Breakdown of business trips emissions by mode of transport (tCO2e)

● Scope 1 ● Scope 2 ● Scope 3

54 239K + **1 494K** + **250K**

km travelled for business trips | liters of fuel consumed for business trips | KwH used for business trips

Plane: 6,0K
Car: 0,9K / 3,7K
Mileage allowance: 3,1K
Taxi: 1,3K
Train
Bus
Subway, tramway
Metro/tramway
Moto/scooter

Breakdown of operated car related emissions by engine type (tCO2e)

● Scope 1 ● Scope 2 ● Scope 3

Engine type	Scope 1	Scope 3
Supermini	1 183	279
MPV	880	215
Dual purpose 4X4	521	118
Lower medium	470	114
Upper medium	197 / 109	
Medium car	224	
Upper medium	86	
Small Car	73	
Medium Car		
Executive		
Average car		

0   500   1 000   1 500   2 000

1 722K + **1 494K** + **250K**

km travelled by operated car | Liters of fuel consumed for business trips | KwH used for business trips
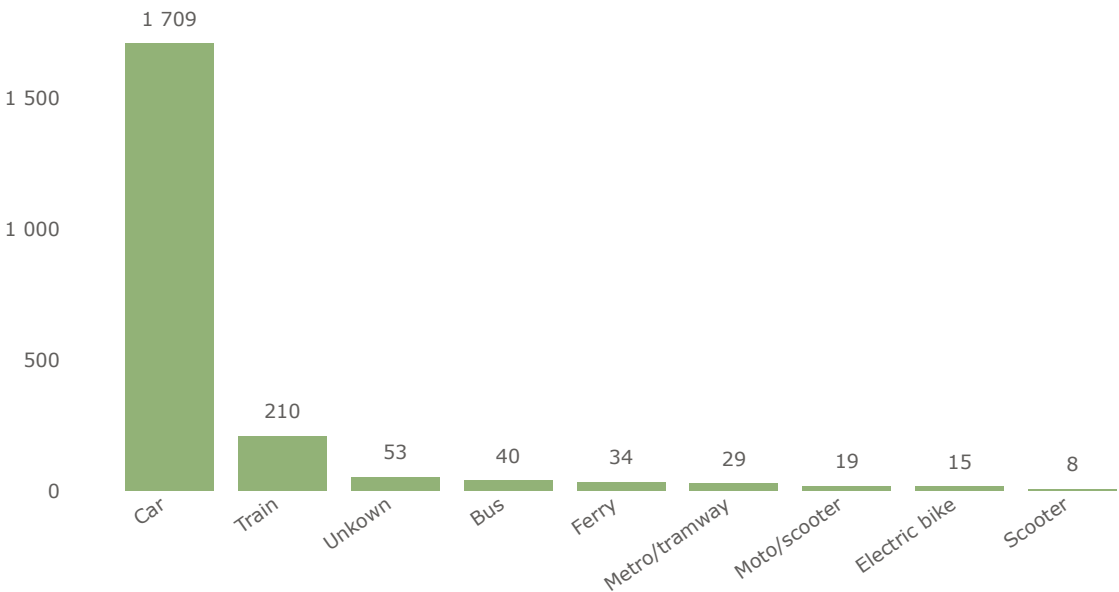
NB: to ensure accuracy, only Artelia-provided data are shown in these graphs, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category

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Scope 3
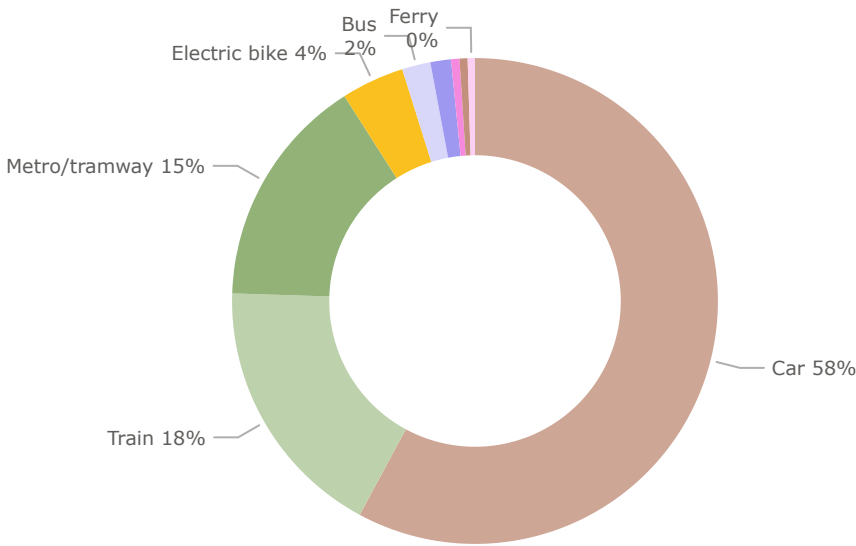## Commuting

10 238
tCO2e

9 %
of Artelia's footprint

Breakdown of home-work commuting emissions by mode of transport (tCO2e)

Mode	Value
Car	1 709
Train	210
Unkown	53
Bus	40
Ferry	34
Metro/tramway	29
Moto/scooter	19
Electric bike	15
Scooter	8

Distribution of home-work commuting distances by mode of transport (km travelled)

- Car 58%
- Train 18%
- Metro/tramway 15%
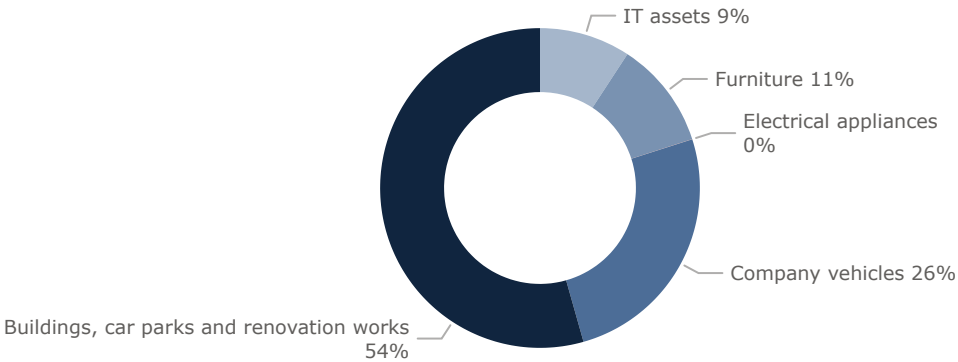- Electric bike 4%
- Bus 2%
- Ferry 0%

NB: to ensure accuracy, only Artelia-provided data are shown in these graphs, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category
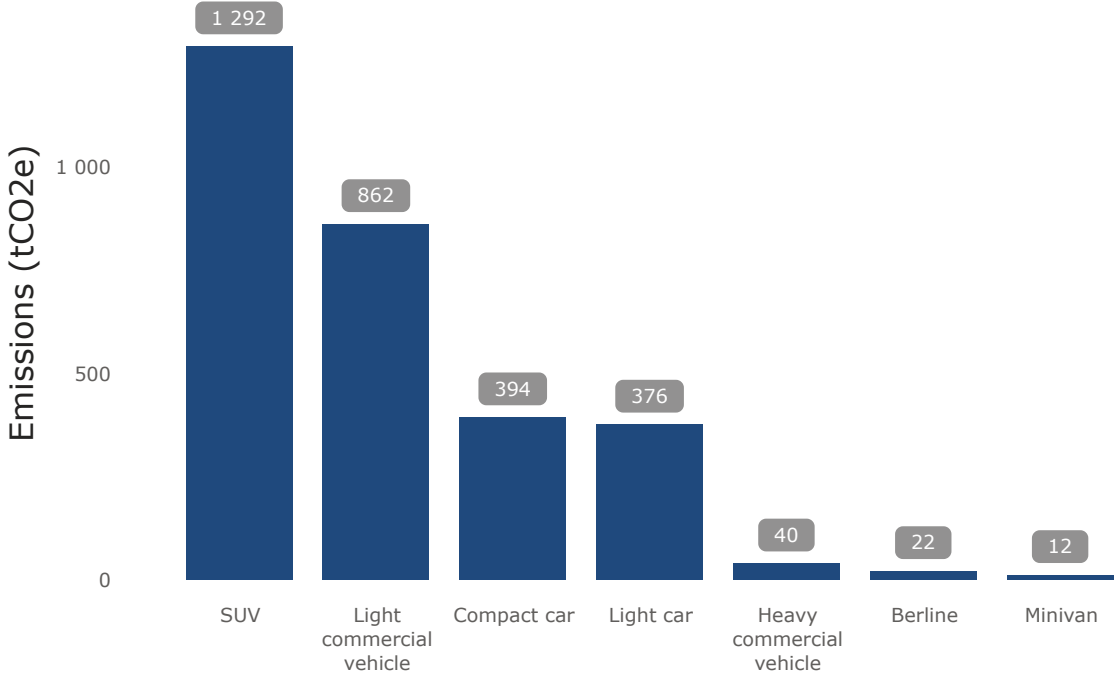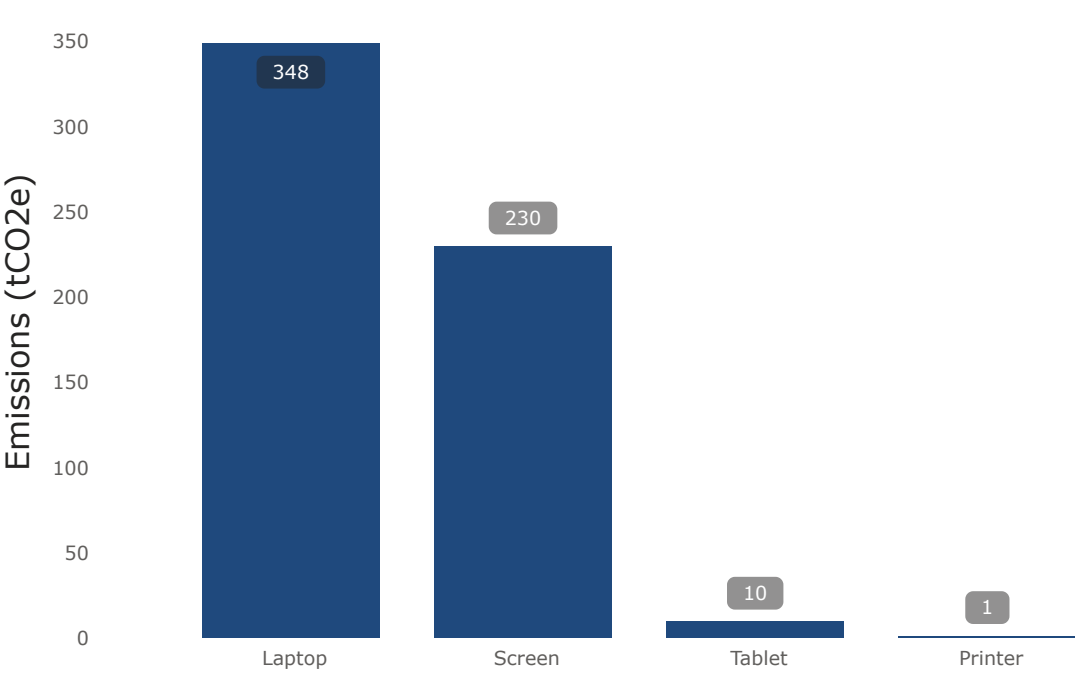
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Scope 3
Capital Goods

12 669
tCO2e

11 %
of Artelia's footprint

Breakdown of emissions by capital goods category (tCO2e)

- IT assets 9%
- Furniture 11%
- Electrical appliances 0%
- Company vehicles 26%
- Buildings, car parks and renovation works 54%

Breakdown of emissions by vehicle type (tCO2e)

Vehicle type	Emissions (tCO2e)
SUV	1 292
Light commercial vehicle	862
Compact car	394
Light car	376
Heavy commercial vehicle	40
Berline	22
Minivan	12

Focus on the most emissive IT goods categories (tCO2e)

IT goods category	Emissions (tCO2e)
Laptop	348
Screen	230
Tablet	10
Printer	1

NB: to ensure accuracy, only Artelia-provided data are shown in this graph, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category
NB 2 : We didn't focus on buildings because we had to choose only two focus areas, and the emissions related to buildings ares less relevant to be showcased visually.

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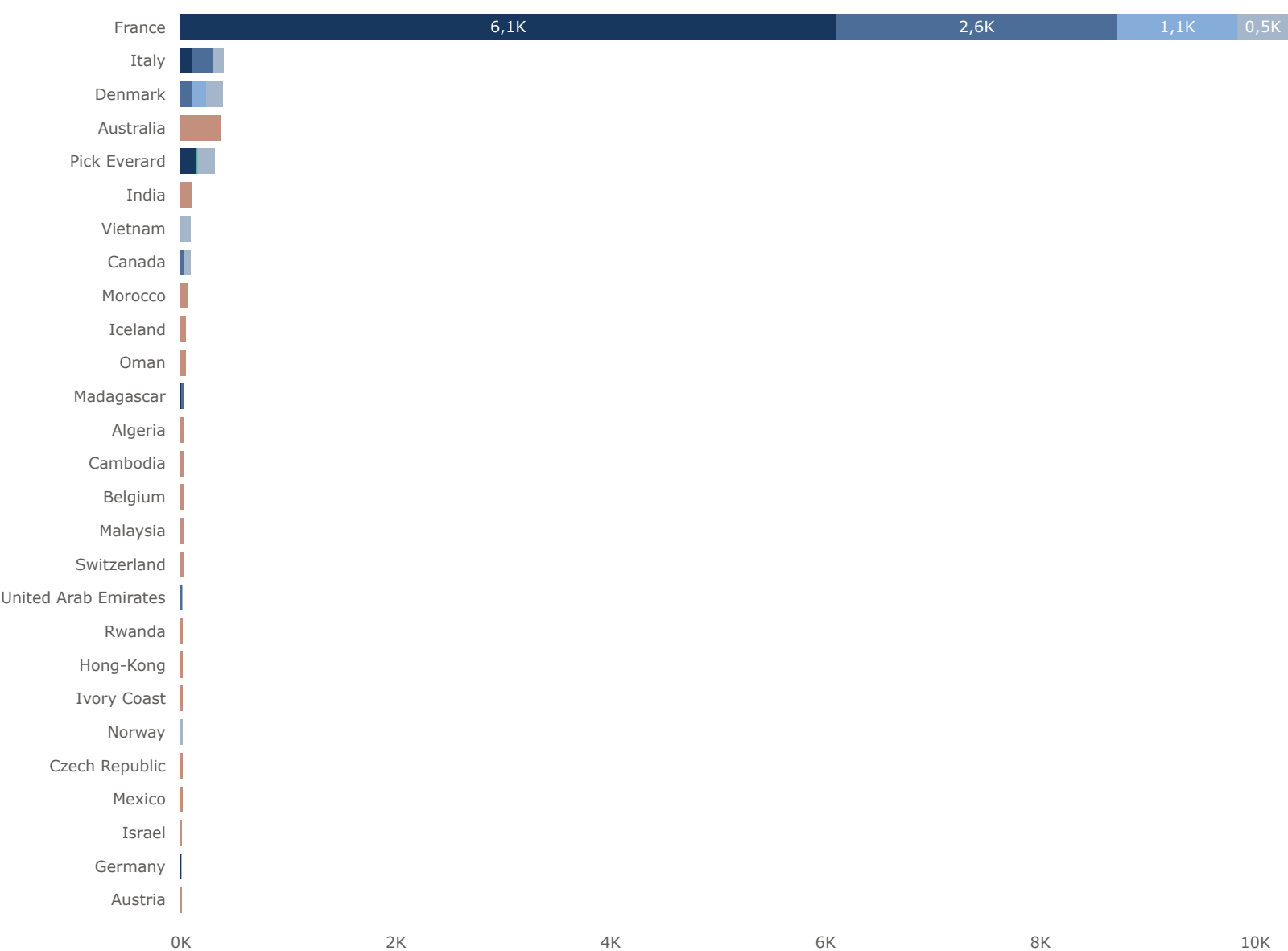# Scope 3
Capital Goods

12 669
tCO2e

11 %
of Artelia's footprint

Breakdown of capital goods emissions by country and category (tCO2e)

● Buildings, car parks and renovation works ● Capital goods Extrapolation ● Company vehicles ● Electrical appliances ● Furniture ● IT assets
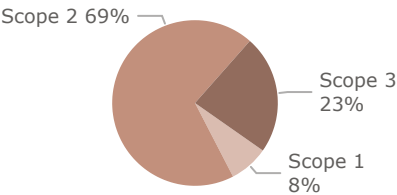
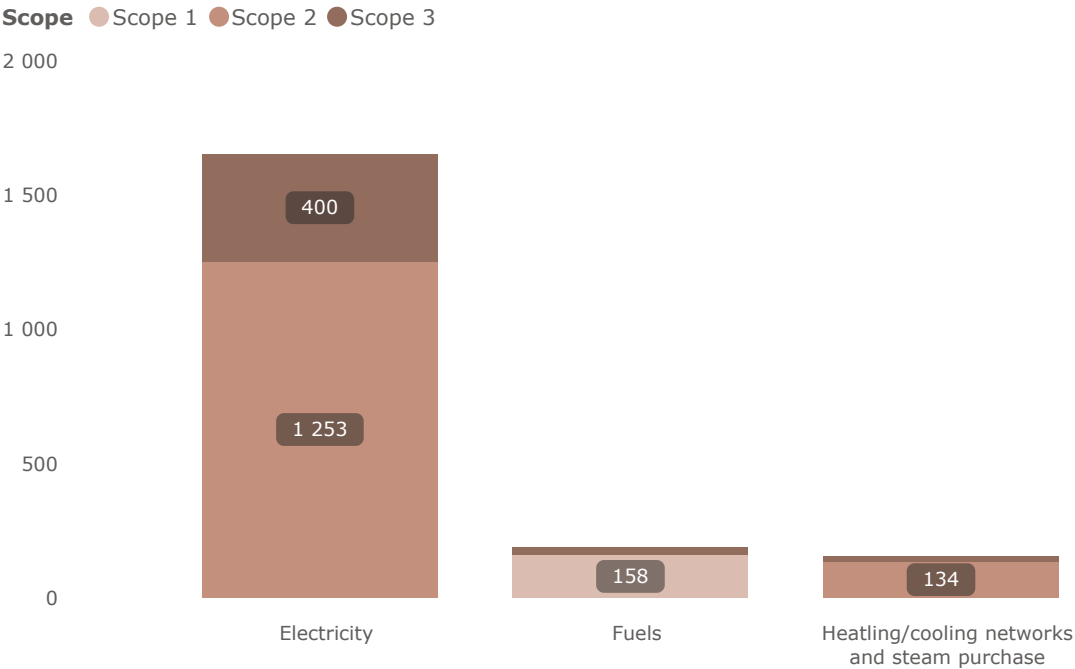| Country	
France	6,1K — 2,6K — 1,1K — 0,5K
Italy	
Denmark	
Australia	
Pick Everard	
India	
Vietnam	
Canada	
Morocco	
Iceland	
Oman	
Madagascar	
Algeria	
Cambodia	
Belgium	
Malaysia	
Switzerland	
United Arab Emirates	
Rwanda	
Hong-Kong	
Ivory Coast	
Norway	
Czech Republic	
Mexico	
Israel	
Germany	
Austria	

0K   2K   4K   6K   8K   10K

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Scope 1, 2 & 3
Energy

2 252
tCO2e

2 %
of Artelia's footprint

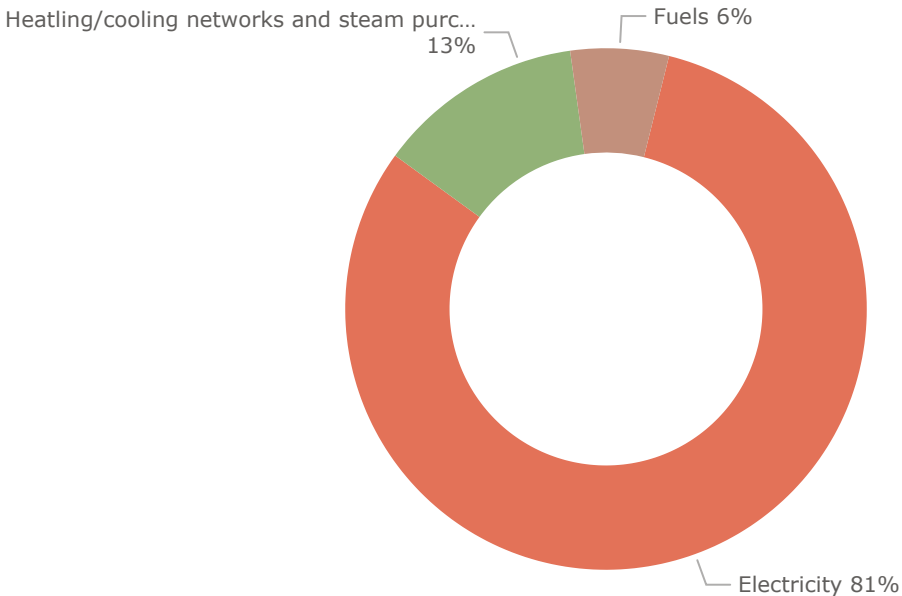### Breakdown by scope

Scope 2 69%
Scope 3 23%
Scope 1 8%

GHG Protocol Categories	Emissions (tCO2e)
1-1 Emissions from stationary combustion sources	173
2-1 Indirect emissions from electricity consumption	1 422
2-2 Indirect emissions from steam, heating, or cooling consumption	134
3-3 Emissions related to fuels and energy (not included in scope 1 or 2)	522

Breakdown of emissions by type of energy used and by scope (tCO2e)

Scope ● Scope 1 ● Scope 2 ● Scope 3

- Electricity: 400, 1 253
- Fuels: 158
- Heatling/cooling networks and steam purchase: 134

Breakdown of energy consumption (kWh)

Heatling/cooling networks and steam purc... 13%
Fuels 6%
Electricity 81%

NB : input data that is not in kWh has been excluded (1 row of Madagascar fuel consumption)
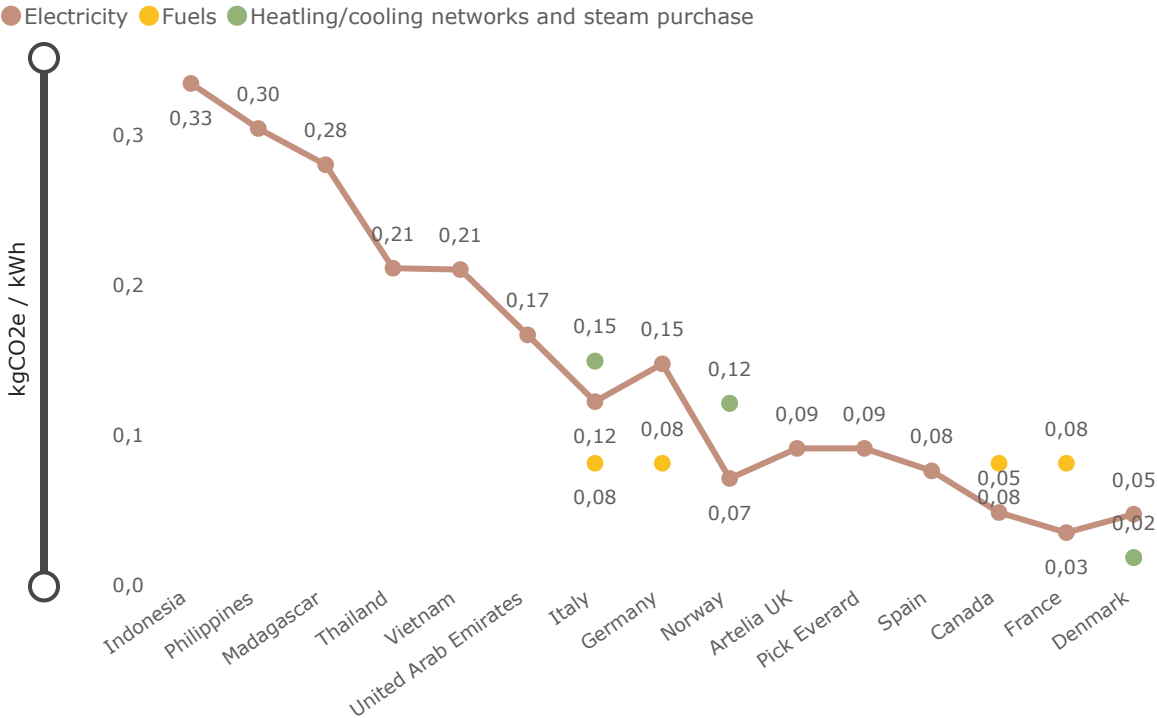
*NB: t*o ensure accuracy, only Artelia-provided data are shown in these graphs, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category
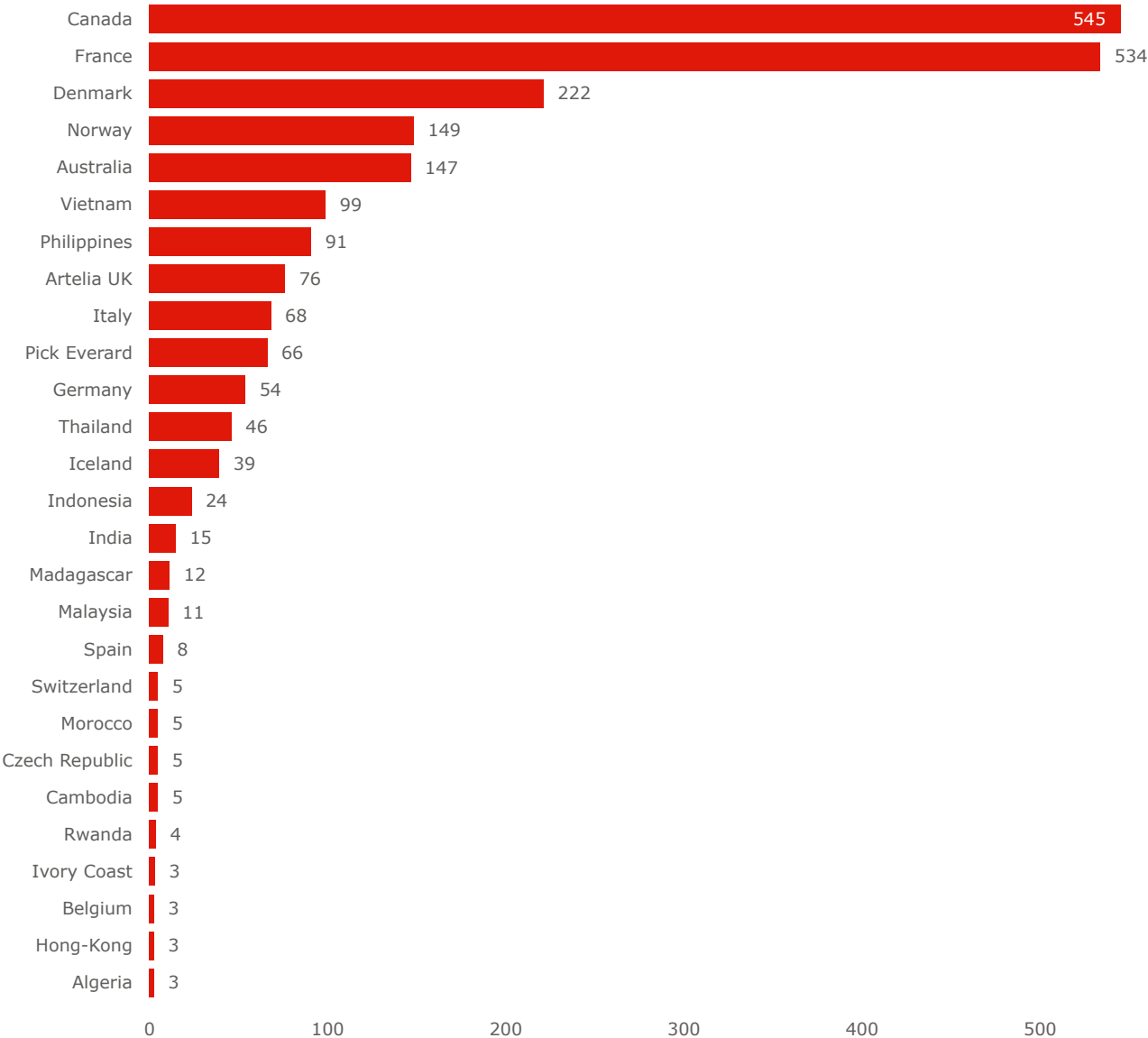
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Scope 1, 2 & 3
Energy

2 252
tCO2e

2 %
of Artelia's footprint

Breakdown energy emissions by country (tCO2e)

Country	Value
Canada	545
France	534
Denmark	222
Norway	149
Australia	147
Vietnam	99
Philippines	91
Artelia UK	76
Italy	68
Pick Everard	66
Germany	54
Thailand	46
Iceland	39
Indonesia	24
India	15
Madagascar	12
Malaysia	11
Spain	8
Switzerland	5
Morocco	5
Czech Republic	5
Cambodia	5
Rwanda	4
Ivory Coast	3
Belgium	3
Hong-Kong	3
Algeria	3

Energy carbon intensity for each energy type by country (kgCO2e/kWh)

● Electricity   ● Fuels   ● Heatling/cooling networks and steam purchase

*NB: t*o ensure accuracy, only Artelia-provided data are shown in this graph, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category

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Scope 1
Non-energy

799
tCO2e

1 %
of Artelia's footprint

Breakdown of emissions by estimation methodology used (tCO2e)

3%
11%
86%

Methodology used
- estimation based on air-conditioned surfaces
- estimation based on reported refrigerant leak
- estimation based on installed air conditioning power
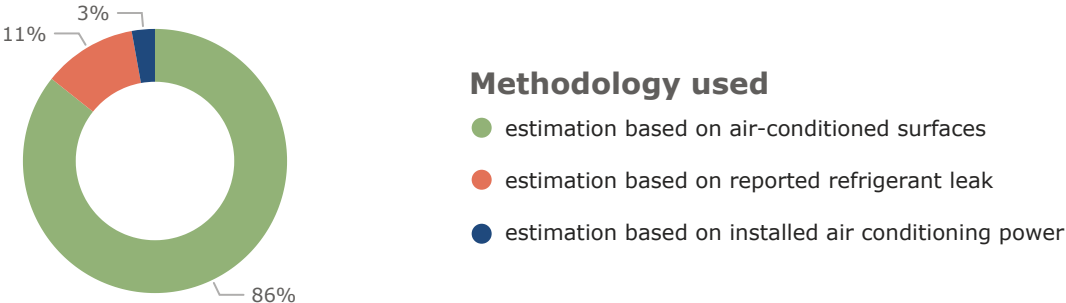
Breakdown of emissions by type of refrigerant (tCO2e)
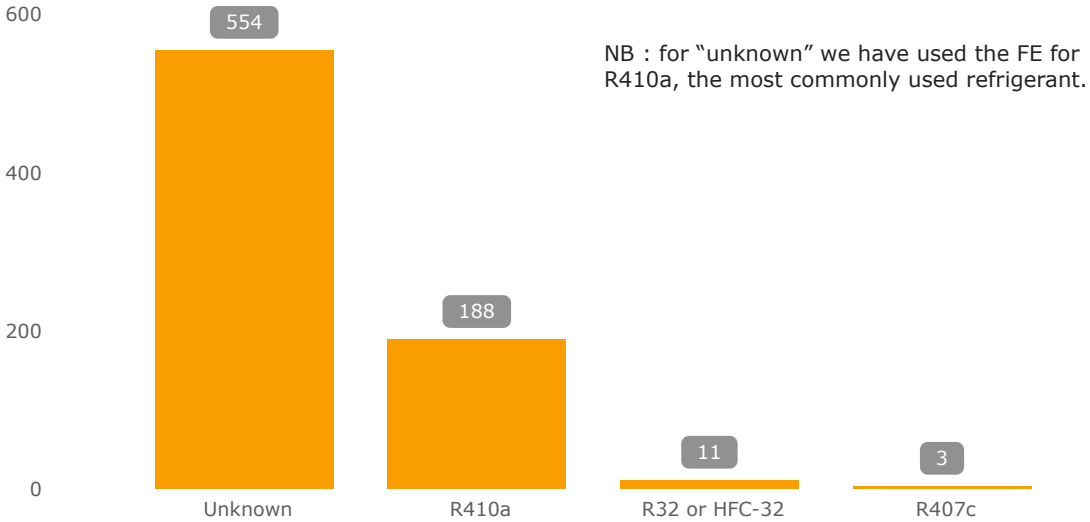
NB : for "unknown" we have used the FE for R410a, the most commonly used refrigerant.

	Unknown	R410a	R32 or HFC-32	R407c
Value	554	188	11	3

NB: to ensure accuracy, only Artelia-provided data are shown in these graphs, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category
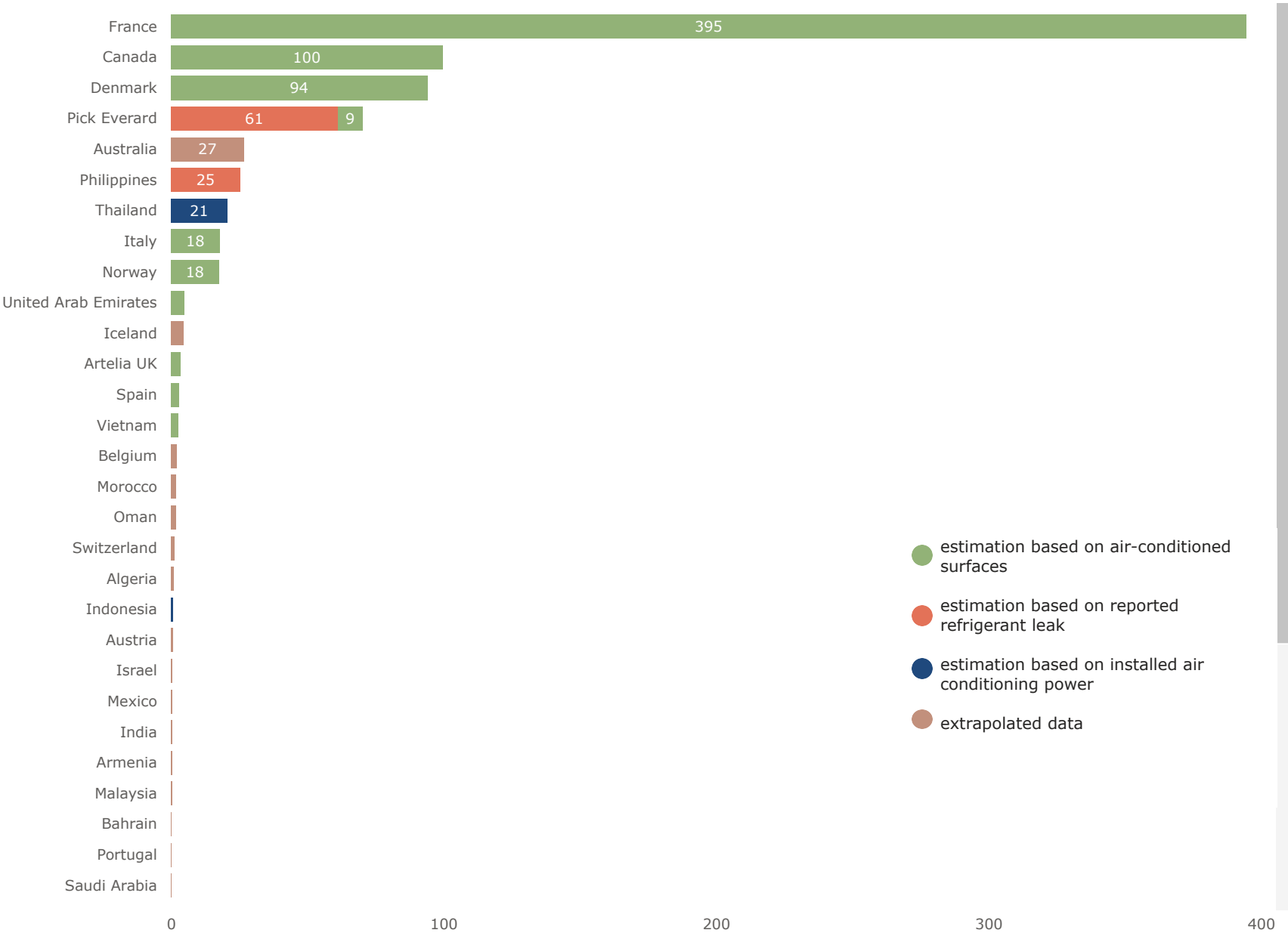
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Scope 1
Non-energy

799
tCO2e

1 %
of Artelia's footprint

Breakdown of non-energy emissions by country and methodology used (tCO2e)

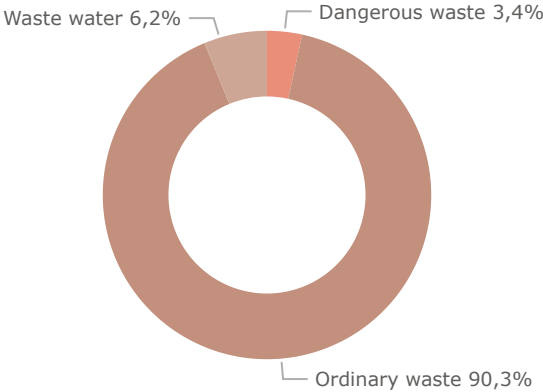| Country	Value
France	395
Canada	100
Denmark	94
Pick Everard	61 / 9
Australia	27
Philippines	25
Thailand	21
Italy	18
Norway	18
United Arab Emirates	
Iceland	
Artelia UK	
Spain	
Vietnam	
Belgium	
Morocco	
Oman	
Switzerland	
Algeria	
Indonesia	
Austria	
Israel	
Mexico	
India	
Armenia	
Malaysia	
Bahrain	
Portugal	
Saudi Arabia	

Legend:
- estimation based on air-conditioned surfaces
- estimation based on reported refrigerant leak
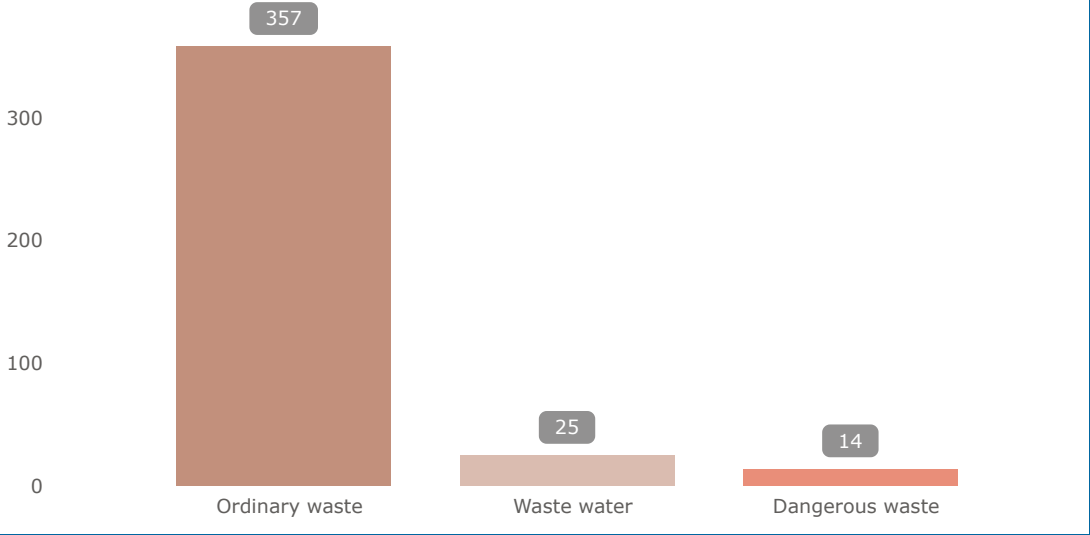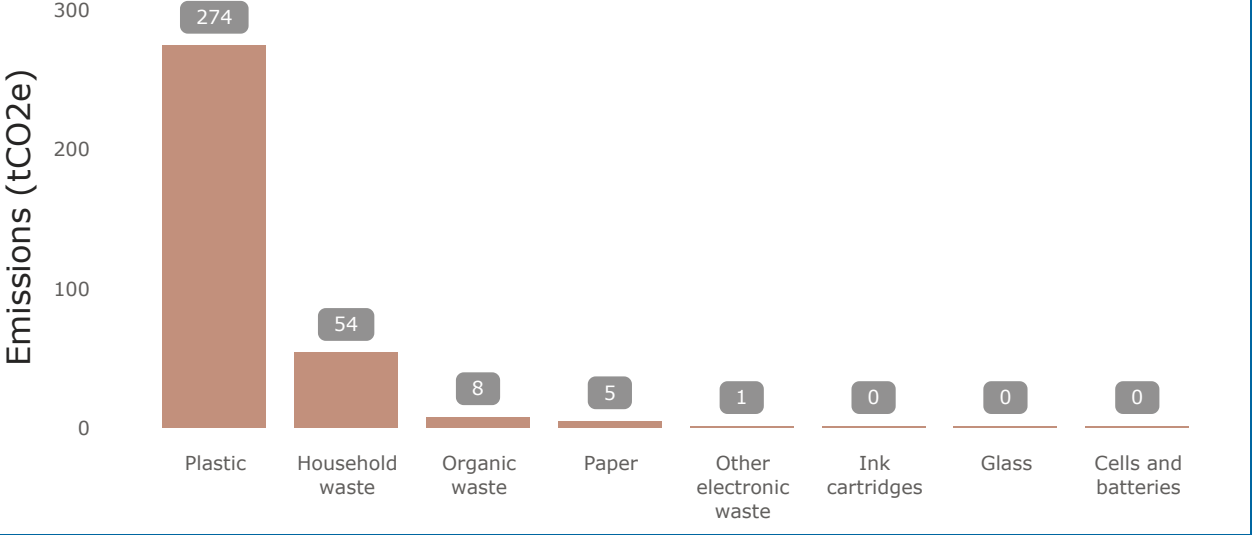- estimation based on installed air conditioning power
- extrapolated data

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Scope 3
Waste

408
tCO2e

0,4 %
of Artelia's footprint

Breakdown of emissions by category (tCO2e)

Waste water 6,2%
Dangerous waste 3,4%
Ordinary waste 90,3%

Breakdown of emissions by type of waste (tCO2e)

Ordinary waste	357
Waste water	25
Dangerous waste	14

Focus on the 8 most emissive subtypes (tCO2e)

Emissions (tCO2e)

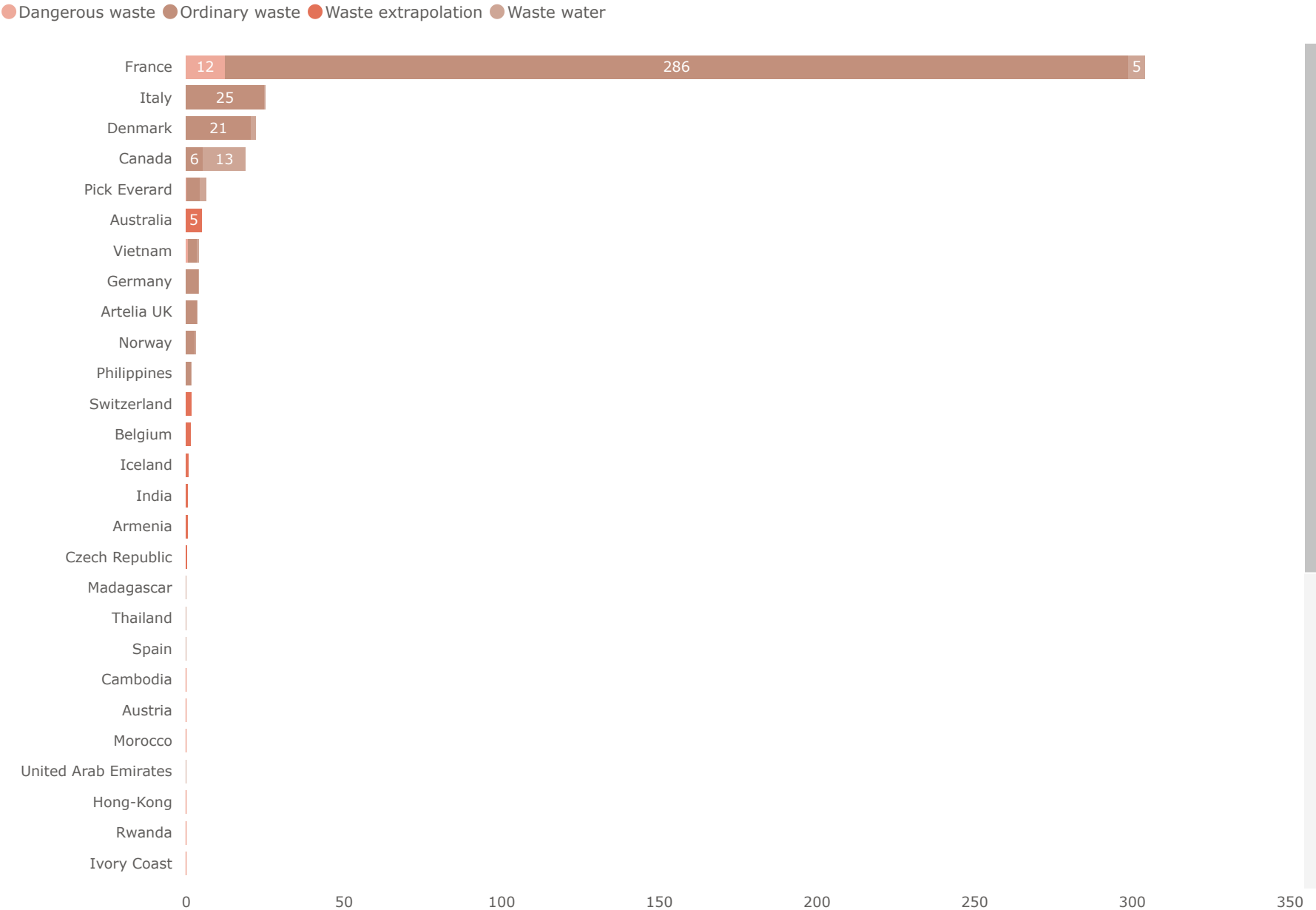| Subtype	Value
Plastic	274
Household waste	54
Organic waste	8
Paper	5
Other electronic waste	1
Ink cartridges	0
Glass	0
Cells and batteries	0

NB: to ensure accuracy, only Artelia-provided data are shown in theses graphs, excluding any extrapolated data, as the extrapolation was done by category and not by sub-category

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Scope 3
Waste

408
tCO2e

0 %
of Artelia's footprint

● Dangerous waste ● Ordinary waste ● Waste extrapolation ● Waste water

Country	Value(s)
France	12 286 5
Italy	25
Denmark	21
Canada	6 13
Pick Everard	
Australia	5
Vietnam	
Germany	
Artelia UK	
Norway	
Philippines	
Switzerland	
Belgium	
Iceland	
India	
Armenia	
Czech Republic	
Madagascar	
Thailand	
Spain	
Cambodia	
Austria	
Morocco	
United Arab Emirates	
Hong-Kong	
Rwanda	
Ivory Coast	

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GHG Protocol standard reporting

GHG Protocol Categories	Emissions (tCO2e)
1-1 Emissions from stationary combustion sources	173
1-2 Emissions from mobile combustion sources	3 715
1-4 Fugitive emissions	799
2-1 Indirect emissions from electricity consumption	1 575
2-2 Indirect emissions from steam, heating, or cooling consumption	134
3-1 Purchased goods and services	71 869
3-2 Capital goods	12 669
3-3 Emissions related to fuels and energy (not included in scope 1 or 2)	1 409
3-5 Waste	408
3-6 Business travel	11 532
3-7 Employee commuting	10 238
Total	**114 521**

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