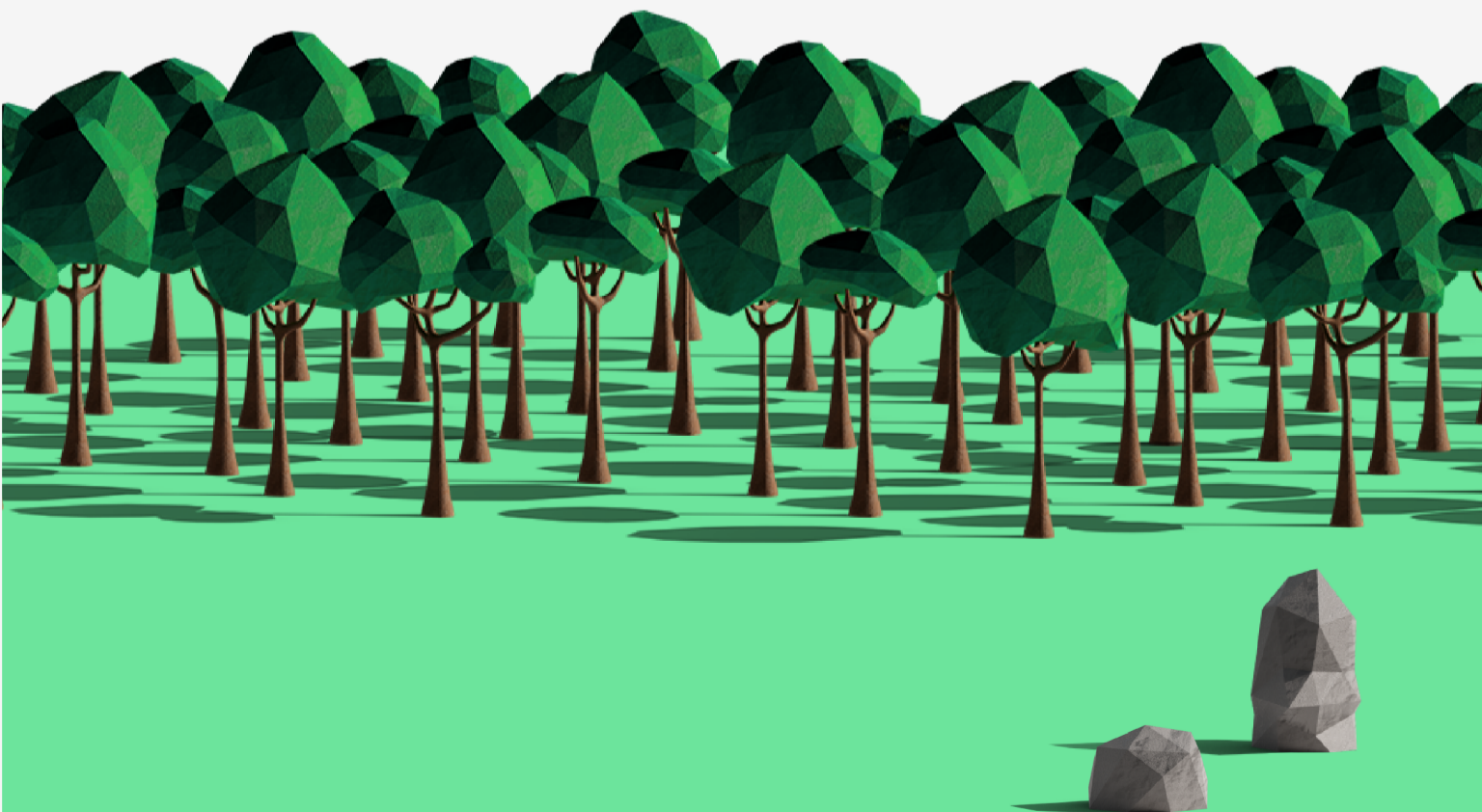


# EARTHLY

"Eventual Horizon" Short Film Carbon Footprint  
by Iris Beswick

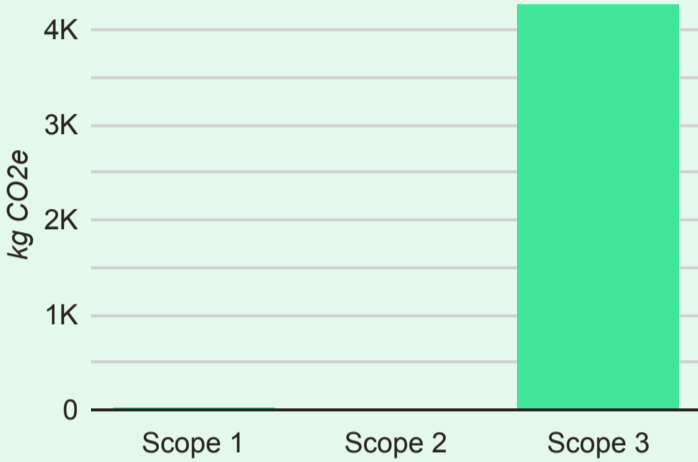


# Total CO<sub>2</sub>e

# 4291.94 kg

## CO<sub>2</sub>e - Carbon Dioxide Equivalent

The universal unit of measurement to indicate the global warming potential of Greenhouse Gases



### Scope 1

Direct emissions from sources that are owned or controlled by the company

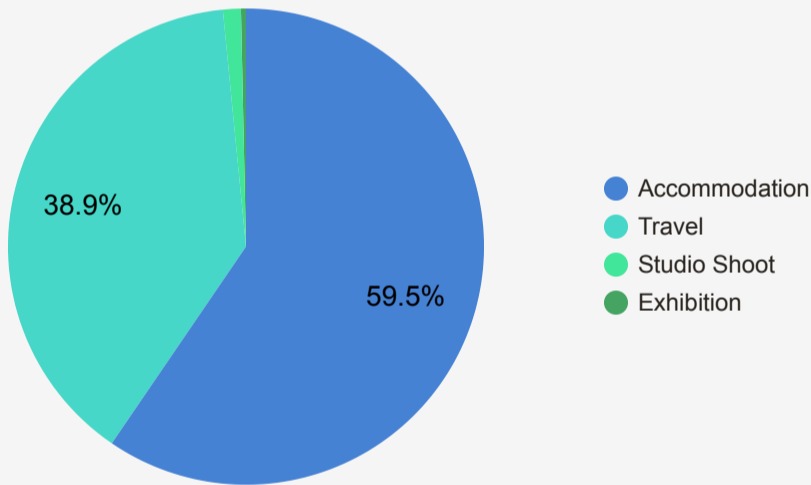
### Scope 2

Indirect emissions from purchased sources of energy that the company does not control - e.g. electricity

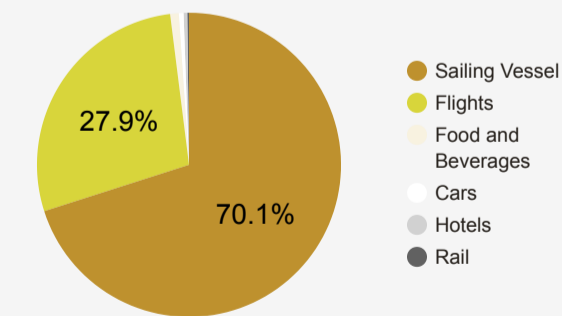
### Scope 3

All other indirect emissions - e.g. travel

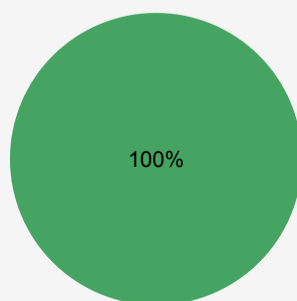
## BREAKDOWN OF TOTAL PROJECT EMISSIONS



## FURTHER BREAKDOWNS

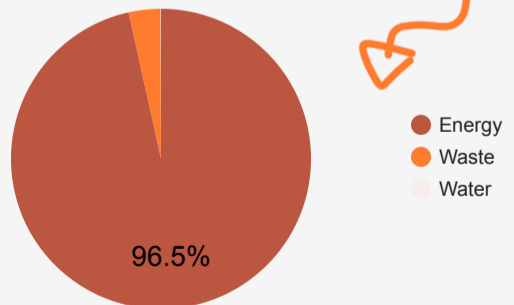


Travel and Accommodation



Exhibition

### Studio Shoot



## GREENHOUSE GAS EMISSIONS BY SOURCE

		Scope / kg CO <sub>2</sub> e	
Category		Scope 1	Scope 3
Water		-	0.04
Waste		-	1.78
Sailing Vessel		-	2,960.55
Rail		-	7.67
Hotels		-	16.50
Food and Beverages		-	38.50
Flights		-	1,180.56
Energy		-	14.49
Energy		-	50.41
Cars		21.45	-
<b>Grand total</b>		<b>21.45</b>	<b>4,270.49</b>

## ASSUMPTIONS

Any assumptions made during the carbon emissions calculations and analysis for the project have been called out below.

- \* Fuel use on Arctic Circle residency ship divided by number of passengers.
- \* A conservative estimate of emissions associated with the residency ship was made based on liveboard and cruiseship data (not inclusive of fuel use).
- \* Emissions associated with food and beverages based on 55 vegan meals consumed during Arctic Circle residency
- \* Energy consumption for studio shoot estimated based on average kWh/m<sup>2</sup> for commercial buildings.
- \* Energy consumption for exhibition based on average annual electricity use for the entire building, adjusted for exhibition space area and runtime.
- \* Modelled using DEFRA Emission Factors 2022 and UK Consumption-Based Accounts Data 2019.



## CARBON ACCOUNTING METHODOLOGY

Earthly's carbon accounting methodology follows the standards of the Greenhouse Gas Protocol and ISO 14064-1:2018. The calculation methodology was assessed and verified by Carbon Action in September 2021 and was found to conform with ISO GHG principles of being transparent, relevant, accurate, complete and consistent.

All conversion factors used are in units of "kilograms of carbon dioxide equivalent of Y per X" (kg CO<sub>2</sub>e of Y per X), where Y is the gas emitted and X is the unit activity. CO<sub>2</sub>e is the universal unit of measurement to indicate the global warming potential (GWP) of GHGs, expressed in terms of the GWP of one unit of carbon dioxide.

Earthly's calculations account for Scope 1, 2 and partial Scope 3 as defined by the GHG Protocol. We report on the seven main GHGs that contribute to climate change, as covered by the Kyoto Protocol, converted into units of CO<sub>2</sub>e.



## SCOPE OF CARBON ACCOUNTING

The scope and boundary of the project's carbon footprint has been decided as below. Certain emissions sources were determined to be immaterial or not specific to this project so were excluded from the carbon footprint calculations.

Activity ^	Included in Scope	Explanation for Exclusion
Accommodation (inc. Food)	✓	N/A
Arctic Circle Residency Ship	✓	N/A
Pre-Production (London)	✗	Single laptop, part-time - difficult to differentiate time spent on project
Procurement and Services	✗	Not specific to project
Screenings (France, Oct 23)	✓	N/A
Studio Shoot (Belgium)	✓	N/A
Travel	✓	N/A

## SOURCES

Activity ^	Source
General Emission Factors	DEFRA Greenhouse Gas Reporting: Conversion Factors 2023
International Electricity EFs	Carbon Footprint Electricity Emission Factors
Procurement and Services (UK)	UK Consumption Based Emissions Factors 2019
Reporting Guidance	Environmental Reporting Guidelines (UK Gov)
Reporting Guidance	Guidance on how to measure and report your greenhouse gas emissions (DEFRA)
Reporting Standard	ISO 14064-1:2018
Residency Ship Footprint Estimates	Sustainable Travel International