

MOYU

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Supplier Emissions Fact Sheet

GHG Protocol — Scope 3 Category 1: Purchased Goods & Services

Document version	1.0 - May 2026	
Prepared by	MOYU B.V., Roel Schatorjé (Founder)	
LCA conducted by	Tessa Mouw (independent), ISO 14040/14044 compliant	
Reference standard	GHG Protocol Corporate Value Chain (Scope 3) Standard	
Intended use	Supplier data for buyers' CSRD / ESRS E1 Scope 3 Category 1 reporting	

1. Product information

Field	Detail
Product name	MOYU Erasable Stone Paper Notebook
Product category	Reusable stationery / sustainable office supplies
Primary material	80% Calcium Carbonate (CaCO ₃), 20% High-Density Polyethylene (HDPE)
Raw material origin	Taiwan (stone paper production); Netherlands & Belgium (final)
Transport method	Sea freight (raw material from Taiwan); road (NL/BE distribution)
Product lifespan	3–5 years; reusable up to 500 times (write–wipe–rewrite)
Functional unit	1 notebook (A5 standard, 40 pages)
System boundary	Cradle to grave (raw material extraction → production → transport → use → end of life)

2. GHG emissions per functional unit

All figures are expressed in kg CO₂e equivalent (CO₂e) per notebook, based on the ISO 14040/14044 compliant Life Cycle Assessment conducted in 2024.

Lifecycle phase	MOYU notebook (kg CO ₂ e)	Wood pulp notebook* (kg CO ₂ e)	Reduction
Raw material extraction & production	0.22	4.44	-95%
Transportation	0.08	0.90	-91%
Use phase	0.00	0.00	—
End of life (incineration)	0.07	0.66	-89%
TOTAL per notebook	0.37 kg CO₂e	6.00 kg CO₂e	-94%

* Wood pulp comparator: standard A5 ruled notebook, manufactured in Asia, ISO-standard reference scenario over equivalent 3-year use period (15 notebooks). Note: Phase-level figures are LCA-derived approximations based on the functional unit comparison. The LCA report (Tessa Mouw, 2024) holds the full methodology and primary data.

3. How to use this data in your Scope 3 reporting

If your organisation is reporting under CSRD (ESRS E1) or GHG Protocol, MOYU notebooks fall under Scope 3 Category 1: Purchased Goods & Services. Use the following:

Item	Value to enter
Emission factor (per unit)	0.37 kg CO ₂ e per notebook
Activity data	Number of MOYU notebooks purchased in the reporting year
Calculation	Units purchased × 0.37 = total kg CO ₂ e for this supplier
GHG Protocol category	Scope 3, Category 1 (Purchased Goods & Services)
Data quality	Supplier-specific (LCA-based): highest quality tier per GHG Protocol hierarchy

4. Additional environmental metrics (LCA-derived)

For organisations reporting beyond CO₂e, the following LCA metrics are available per notebook sold:

Metric	MOYU notebook	Wood pulp equivalent
Water consumption	0 L (production)	~1,585 L
Trees consumed	0 trees	~0.05 trees
Energy saved (GJ, vs. equivalent)	+1.56 GJ saved	Baseline
Reforestation offset	1 tree planted (Trees for Kenya)	0

5. Relevant certifications & credentials

Certification	Holder	Relevance
B Corp Certified	MOYU B.V.	Verified social & environmental performance
ISO 14040/14044 LCA	MOYU (commissioned)	Lifecycle assessment methodology standard
ISO 14001	Stone paper supplier (Taiwan)	Environmental management system — upstream
Cradle to Cradle	Stone paper supplier (Taiwan)	Material circularity — upstream material
UN SDGs aligned	MOYU B.V.	SDG 6 (clean water), 12 (responsible consumption), 13 (climate), 15 (life on land)

6. End-of-life transparency

MOYU is committed to transparency, including where gaps exist. The current end-of-life situation for stone paper notebooks in Europe is as follows:

Currently no large-scale stone paper recycling stream exists in Europe. Notebooks reaching end of life are typically incinerated with energy recovery. This is reflected in our LCA figures (0.07 kg CO₂e end-of-life phase).

MOYU has established the Stone Paper Alliance to develop European stone paper recycling infrastructure, with a target operational date of 2027. Customers can also return notebooks directly to MOYU for responsible disposal.