# Rengo Group **Environmental** Data Book 2024



# Rengo Group

# Environmental Data Book 2024

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## • Target Period

Japan: FY3/2024 (April 1st 2023 to March 31st 2024) Overseas: 2023(January 1st 2023 to December 31st 2023)

#### Organizational Scope

Rengo Co., Ltd. aggregates data, given in the Environmental Data Book, from consolidated subsidiaries. However, non-manufacturing companies whose business activities have a small impact on the environment are excluded. For the same reason, non-manufacturing sites (head office, sales office, warehouse and so on) are excluded. Detailed explanations are in the "Organizational Scope by Category".

#### • Independent Practitioner's Assurance (Symbol of Assurance: 🔽 )

For environmental data subject to the independent practitioner's assurance, the symbol of assurance is indicated as a sign that the information has been assured.

## Calculation of Environmental Data

•Figures are rounded to the nearest number and may not add up to the total.

- •"-" indicates outside the scope of calculations; "0" refers to a figure of less than 0.5.
- •In conducting calculations for this fiscal year, some figures from past fiscal years were revised.

## • Number of targeted organizations (as of the end of March 2024)

Non-consolidated	Rengo Co., Ltd.	1
Domestic consolidated subsidiaries	Subsidiaries	41
	Second-tier subsidiaries	9
Overseas consolidated subsidiaries	Subsidiaries	8
	Second-tier subsidiaries	97
Total	·	156

## • Organizational Scope by Category (2023 Data)

		Target organization		con Consolidated subsidiaries				
Page	Category		Rengo	Domestic consolidated subsidiaries		Overseas co subsid	onsolidated liaries	Disclosure ratio
			Co., Ltd.	Subsidiaries	Second-tier subsidiaries	Subsidiaries	Second-tier subsidiaries	(%)
04	Management	ISO14001 Certification	0	0	0	0	0	
		ISO27001 Certification	0	-	-	-	-	
05	Third-party	FSC Certification	0	0	0	0	0	
	certifications	ISCC Certification	-	0	-	-	-	
06	Energy	Trend of Energy Usage by Type *1	0	0	0	0	0	100
		Trend of Power generation	0	0	0	0	0	100
08	Greenhouse	Trend of Domestic GHG Emission	0	0	0			100
	Gas (GHG)	Trend of Gross Global GHG Emission (Scope1,2 and 3) *1	0	0	0	0	0	100
09	Raw Material	Trend of Raw Material Input by Type *2	0	0	0	0	-	81
	and Waste	Trend of Recycled Material Utilization Rate *3	0	0				100
		Trend of Waste Generated, Final Disposal Volume and Effective Utilization Rate of Waste by Type*4	0	0	0	0	0	100
10	Environmentally friendly Products	Trend of Viscopearl Production	0					100
11	Water	Trend of Water Intake by Water Source <sup>*4</sup>	0	0	0	0	0	100
	Resource	Water Risk Assesment	0	0	0	0	0	100
12	Chemical Substances	Trend of Chemical Substances Subjected to The PRTR System Amount Handled	0	-	-			36
	Management	Trend of Chemical Substances Subjected to The PRTR System Amount Emitted and Transferred	0	0	0			100
13	Environmental	Trend of Releases into the Atmosphere by Type <sup>*2</sup>	0	0	0	0	-	81
	impact	Trend of Water Discharge by Discharge Destination *4	0	0	0	0	0	100
	(emissions)	Trend of Releases into Water by Type *2	0	0	0	0	-	81

Note: "- " indicates no data; "  $\searrow$  " indicates not applicable

Note:Disclosure ratio=Total Sales of calculation-targeted companies / Total sales of Rengo group

\*1 Including logistics and non-manufacturing sites
\*2 Excluding domestic second-tier subsidiaries in 2021 and 2022 data.
\*3 Scope : paperboard manufacturing sites
\*4 Excluding second-tier subsidiaries in 2021 and 2022 data.

#### Material Balance

# Material Balance



#### Management

# Management

## • ISO14001 Certification (as of March 31, 2024)

Target organization	Number of sites	Number of certified sites	Ratio of certified sites*
Non-consolidated	34	34	100
Consolidated subsidiaries	272	102	37
Total	306	136	44

\* Ratio of certified locations = (Number of certified sites) / (Number of sites)

## • ISO27001 Certification (as of March 31, 2024)

Category	Company	Certified organization		
Non-consolidated Rengo		Tonegawa Division Yashio Mill		
		Amagasaki Mill		

# Third-party Certifications

## • FSC Certification (as of March 31, 2024)

Target organization	Number of sites	Number of certified sites	Ratio of certified sites*
Non-consolidated	34	34	100
Consolidated subsidiaries	272	97	36
Total	306	131	43

\* Ratio of certified locations = (Number of certified sites) / (Number of sites)

#### • ISCC Certification (as of March 31, 2024)

Category	Company	Certified organization
Domestic consolidated	SunTox	Kanto Plant, Tokuyama Plant
subsidiaries	Howa Sangyo	Narashino Plant, Higata Plant, Kyoto plant, Fukuoka Plant

# Coefficients of Energy and Greenhouse Gas (GHG)

### • Caluclation of Energy Usage and Scope 1, 2 and 3

Calculations of energy usage and greenhouse gas emissions use the following coefficients. The reported values are the sum of actual results for the group companies as of the reporting year.

		Japan	Overseas
Caluclation standard		Act on Promotion of Global Warming Countermeasures (adjusted emissions)	GHG protocol
Heat value Energy coefficient		Factors based on the Energy Conservation Act	<ul> <li>Factors based on the Energy Conservation Act</li> <li>3.6GJ/MWh is used for converting solar power to energy</li> </ul>
Emissions factor	Fuel	Factors based on the Act on Promotion of Global Warming Countermeasures ("Act on Global Warming")	• Factors based on the laws and regulations of the countries to which sites belong to, or the Act on Global Warming (2022 results)
	Electricity	<ul> <li>Adjusted emission factors based on the Act on Global Warming</li> </ul>	Emission factors for each electricity provider, or value of IEA2020 (2022 results)
Scope 3	Database for calculation	<ul> <li>Basic Guideline for calculating greenhouse gas emissions throughout the supply chain (Ver2.5)</li> <li>LCI database IDEAv3.3 (AIST Research Institute of Science for Safety and Sustainability IDEA Lab)</li> <li>Emissions unit values for accounting of greenhouse gas emissions etc., by organizations throughout the supply chain (Ver3.3) (Ministry of the Environment/Ministry of Economy, Trade and Industry)</li> </ul>	
	Notices of calculation	• Ct. 9 : Downstream transportation and distribution, Ct.14: Franchise are out of scope.	

#### • Explanations of Scope 1, 2 and 3

#### Scope 1

Direct GHG emissions occur from use of fuel in boilers and waste incinerators, and from industrial process emissions

#### Scope 2

Indirect emissions occur from use of electricity and heat (steam, hot water, cold water) supplied from other companies

#### Scope 3

Indirect emissions not included in Scope 1 or 2 (Emissions from other companies, associated with the organization's activities)

#### CO2 from energy

Emissions occur from use of fuel(petroleum, Gas and so on)

# CO<sub>2</sub> from non-energy

Emissions occur from incineration of VOC

#### CH4, N2O

Emissions occur from use of fossil fuel and waste-derived fuel, night-soil treatment in septic tanks, and effluent treatment

#### Energy

# Energy

# • Trend of Energy Usage by Type

• Irend of i	Energy Usage by Type	2					unit: TJ
	Category	Target organizationory		FY3/2022	FY3/2023	F	Y3/2024
Energy usage	Fossil fuels	Non-consolidated and consolidated subsidiaries		17,160	15,534		15,480
	Purchased electricity	Non-consolidated and consolidated subsidiaries		7,611	7,738		6,572
	Purchased steam	Non-consolidated and consolidated subsidiaries		235	234		240
	"Waste-derived fuel (RPF, waste tires, waste plastics, reclaimed oil)"	Non-consolidated and consolidated subsidiaries		750	1,566		2,152
	Biomass fuel	Non-consolidated and consolidated subsidiaries		4,776	5,079		4,752
	Electricity derived from renewable energy*	Non-consolidated and consolidated subsidiaries		44	96		163
	L	Т	otal	30,575	30,248		29,358
Renewable energy ratio			15.8%	17.1%		16.7%	

\* Electricity derived from solar power generation (self-generation) ,and purchased electricity derived from renewable energy

# • Trend of Power generation

• Trend of P	ower generation				unit: MWh
	Category	Target organizationory	FY3/2022	FY3/2023	FY3/2024
Power generation	Derived from non-renewable sources*	Non-consolidated and consolidated subsidiaries	684,971	711,610	705,464
	Derived from renewable sources	Non-consolidated and consolidated subsidiaries	138,571	161,478	158,309
		Total	823,542	873,088	863,773

\* Derived from fossil fuel and waste-derived fuel

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#### Greenhouse Gas (GHG)

# Greenhouse Gas (GHG)

• Trend of Domestic GHG Emission	(reporting of Act on Promotion of Global Warming	g Countermeasures (adjusted))
	(reporting of not off i follotion of clobal marining	

• Trend of Don	nestic GHG Emission (repo	orting of Act on Promotion of	Global Warming C	ountermeasures (a	ur ur	nit: thousand t-CO2
	Category	Target organizationory	FY3/2014	FY3/2022	FY3/2023	FY3/2024
Energy usage	use of fuel	Non-consolidated and consolidated subsidiaries	1019	1043	946	896
	use of supplied electricity	Non-consolidated and consolidated subsidiaries	373	335	330	306
	use of supplied heat	Non-consolidated and consolidated subsidiaries	10	9	9	9
CO2 from non-energy	excluding use of waste as fuel	Non-consolidated and consolidated subsidiaries	-	-	-	1
Other gases	CH4, N2O	Non-consolidated and consolidated subsidiaries	13	19	20	6
	·	Total	1416	1405	1305	1218

# • Trend of Gross Global GHG Emission(Scope1,2 and 3) (based on GHG protocol)

Trend	of Gross G	liobal GHG Ellission(Scoper,	2 and 3) (based on GHG	protocol)	ur	nit: thousand t-CO2
		Category	Target organizationory	FY3/2022	FY3/2023	FY3/2024
Scope 1 Er	missions		Non-consolidated and consolidated subsidiaries	11,262	1,151	1,131
Scope 2 Er	missions		Non-consolidated and consolidated subsidiaries	403	398	403
		Tota	of Scope 1and 2 Emissions	1,665	1,550	1,534
Scope 3 Emissions	Category 1	Purchased goods and services	Non-consolidated and consolidated subsidiaries	2,697	2,438	<b>⊻</b> *1 2,482
	Category 2	Capital goods	Non-consolidated and consolidated subsidiaries	295	151	209
	Category 3	Fuel- and energy related activities (not included in scope 1 or scope 2)	Non-consolidated and consolidated subsidiaries	570	277	238
	Category 4	Upstream transportation and distribution	Non-consolidated and consolidated subsidiaries	57	425	442
	Category 5	Waste generated in operations	Non-consolidated and consolidated subsidiaries	2	67	60
	Category 6	Business travel	Non-consolidated and consolidated subsidiaries	24	2	2
	Category 7	Employee commuting	Non-consolidated and consolidated subsidiaries	2	29	29
	Category 8	Upstream leased assets	Non-consolidated and consolidated subsidiaries	0	1	2
	Category 10	Processing of sold products	Non-consolidated and consolidated subsidiaries	219	189	189
	Category 11	Use of sold products	Non-consolidated and consolidated subsidiaries	14	11	7
	Category 12	End-of-life treatment of sold products	Non-consolidated and consolidated subsidiaries	83	69	120
	Category 13	Downstream leased assets	Non-consolidated and consolidated subsidiaries	2	.0	.0
	Category 15	Investments	Non-consolidated and consolidated subsidiaries	248	- *3	131
		·	Total of Category 1,3,4,5 <sup>*2</sup>	3,326	3,207	3,222
			Total	4,212	_	3,911
Scope 1,2	and 3 Emission	IS	Grand Total	5,877	-	5,446

\*1 Only the data of non-consolidated is assured \*2 Target categories of SBT \*3 Not calculated

unit: thousand t

# **Raw Material and Waste**

#### • Trend of Raw Material Input by Type

• Trend of Raw Material	приг ву Туре			unit: thousand t
	Category	FY3/2022	FY3/2023	FY3/2024
Raw material input	Recovered paper	2,658	2,600	2,506
	Pulp	50	57	51
	Paperboard	2,645	2,586	2,628
	Wood chips	158	165	173
	Resin, film, synthetic fiber	211	178	148
	Total	5,722	5,586	5,506

## • Trend of Recycled Material Utilization Rate

• Trend of Recycled Mat	enal othization Rate			unit: %
	Target organization	FY3/2022	FY3/2023	FY3/2024
Recovered paper utilization rate for paperboard*	Non-consolidated and consolidated subsidiaries	98.6	98.6	98.7

\*(Amount of recovered paper used) / (Amount of recovered paper + pulp used)

#### • Trend of Waste Generated, Final Disposal Volume and Effective Utilization Rate of Waste by Type

	Category	FY3/2021	FY3/2022	FY3/2023
Waste generated * 1	Paper Scraps	329	318	339
	Sludge	11	12	13
	Waste Plastics	25	26	31
	Others	55	60	60
	Specially Controlled Industrial Waste	0	0	1
	Total	420	415	444
Final disposal volume of waste <sup>*2</sup>	Paper Scraps	4	1	1
	Sludge	3	3	2
	Waste Plastics	2	1	4
	Others	3	2	5
	Specially Controlled Industrial Waste	0	0	0
	Total	7	7	13
Effective Utilization Rate	Paper Scraps	99.9	99.6	99.7
of Waste (%) *3	Sludge	76.1	76.3	82.7
	Waste Plastics	92.8	95.3	86.0
	Others	95.3	96.8	91.6
	Specially Controlled Industrial Waste	91.4	94.6	98.0
	Total	98.2	98.3	97.1

\*1 Including valuable waste

\*2 Waste generated -Waste effectively used \*3 (Waste generated -Final disposal volume of waste) / Waste generated

unit<sup>.</sup> t

# Environmentally friendly Products

### • Trend of Viscopearl Production Volume

				Ginter
	Target organization	FY3/2022	FY3/2023	FY3/2024
Viscopearl Production Volume	Non-consolidated	53	47	59

## About Viscopearl

Viscopearl is a spherical cellulose bead made from wood pulp, Rengo Co., Ltd. Offers them with a variety of size(diameters from  $3 \mu m$  to 4 mm.)These products are biodegraded into water and CO<sub>2</sub> by microorganisms,when released into ground, fresh watar and seawater. Due to this characteristic Hopes are especially high for them as an alternative to microplastic beads.



#### Water Resource

# Water Resource

#### • Trend of Water Intake (by Water Source)

• Irend of Water Intake (by Water Source)					
	Category	Target organizationory	FY3/2022	FY3/2023	FY3/2024
Water Intake	Portable water	Non-consolidated and consolidated subsidiaries	998	951	1,340
	Industrial water	Non-consolidated and consolidated subsidiaries	27,511	25,526	25,541
	Ground water	Non-consolidated and consolidated subsidiaries	18,606	17,695	17,487
	Surface water	Non-consolidated and consolidated subsidiaries	2,753	2,679	2,488
	Others	Non-consolidated and consolidated subsidiaries	0	0	1
	۰ <u>ــــــــــــــــــــــــــــــــــــ</u>	Tota	49,867	46,850	46,858

#### • Water Risk Assesment

#### unit: water intake…thousand $\ensuremath{\vec{m}}$ , Ratio of waterintake… %

	Number of target sites	water intake	Ratio of water Intake
Low	71	347	1
Low - medium	98	13,575	29
Medium - high	93	32,785	70
High	21	68	0
Very high	23	83	0
Total	306	46,858	100

\*Evaluation was performed using Aqueduct, water risk evaluation tool developed by WRI. Risks were evaluated by five grades using Water Risk Atlas Baseline Water Stress

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#### Chemical Substances Management

# Chemical Substances Management

## • Trend of Chemical Substances Subjected to The PRTR System Amount Handled

Then of one mean outstances outsjeeted to the Fifth oystem Amount handled								
unit: Class 1 Chemical S								
	Category	Target organization	FY3/2022	FY3/2023	FY3/2024			
Amount handled	Class 1 Chemical Substances	Non-consolidated	1,225	1,326	1,165			

#### • Trend of Chemical Substances Subjected to The PRTR System Amount Emitted, and Transferred

		unit: Class 1 Che	mical Substances: to	ns; Dioxins: mg-TEQ	
	Category	Target organizationory	FY3/2022	FY3/2023	FY3/2024
Amount emitted	Class 1 Chemical Substances	Non-consolidated and consolidated subsidiaries	1,246	1,244	1,201
	Dioxins	Non-consolidated and consolidated subsidiaries	42	19	22
Amount transferred	Class 1 Chemical Substances	Non-consolidated and consolidated subsidiaries	70	73	81
	Total Dioxins	Non-consolidated and consolidated subsidiaries	1,359	757	113
Total amount emitted and transferred	Class 1 Chemical Substances	Non-consolidated and consolidated subsidiaries	1,316	1,317	1,282
	Dioxins	Non-consolidated and consolidated subsidiaries	1,401	776	134

#### Environmental Impact (Emissions)

unit. Thousand m

# Environmental Impact (Emissions)

## • Trend of Releases into the Atmosphere by Type

• Irend of Releases into tr	ie Atmos	pnere by Type			unit: t
	Category	Target organizationory	FY3/2022	FY3/2023	FY3/2024
Releases into the atmosphere by type	SOx	Non-consolidated and consolidated subsidiaries	461	511	321
	NOx	Non-consolidated and consolidated subsidiaries	1,448	1,432	1,420
	Dust	Non-consolidated and consolidated subsidiaries	49	39	63
	VOC*	Non-consolidated and consolidated subsidiaries	3,293	3,472	3,403

\*Scope of the volatile organic compounds (VOCs) is the top five substances discharged by members of the Japan Paper Association (toluene, 2-butanone, ethylacetate,2-propanol, and methanol)

## • Trend of Water Discharge by Discharge Destination

	Category	Target organizationory	FY3/2022	FY3/2023	FY3/2024
Water Discharge	Sewage	Non-consolidated and consolidated subsidiaries	25,679	26,132	25,078
	Rivers	Non-consolidated and consolidated subsidiaries	15,359	12,777	13,563
	Others	Non-consolidated and consolidated subsidiaries	0	0	0
	<u></u>	Tota	l 41,037	38,909	38,641

# • Trend of Releases into Water by Type

• Helid of Releases into w	vaterby	уре			unit: t
	Category	Target organizationory	FY3/2022	FY3/2023	FY3/2024
Releases into water by type	BOD	Non-consolidated and consolidated subsidiaries	1,100	653	646
	COD	Non-consolidated and consolidated subsidiaries	1,985	1,767	1,507
	SS	Non-consolidated and consolidated subsidiaries	757	685	630
	Oil (n-Hex)*	Non-consolidated and consolidated subsidiaries	33	32	33

\*Scope: excluding overseas consolidated subsidiaries

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Independent Practitioner's Assurance

# Independent Practitioner's Assurance

Rengo Co., Ltd. has received independent practitioner's assurance from Japan Management Association GHG Certification Center for environmental data (energy inputs,Self-power generation by renewable energy sources, Scopes 1 and 2 greenhouse gas emissions, and Scope 3 (category 1) greenhouse gas emissions) given in the Japanese version of Rengo Group Environmental Data Book 2024.





# Greenhouse gas emissions Verification Statement

30 September 2024

# Rengo Co., Ltd.

Japan Management Association GHG Certification Center Chiga Maruo, Senior Executive

# 1. Objective and Scope of Verification

Japan Management Association GHG Certification Center (JMACC) was commissioned by Rengo Co., Ltd. (hereinafter, referred to as "the Organization") to conduct independent verification on a limited level of assurance. The scope of verification is the following greenhouse gas (GHG) emissions and energy consumption etc. information (hereinafter, referred to as "the Monitoring data") within the organizations<sup>×1</sup> in its fiscal year 2023 Monitoring Report (hereinafter, referred to as "the Report") from 1 April 2023 to 31 March 2024.

- 1) SCOPE 1 GHG emissions;
  - Direct CO<sub>2</sub> emissions of the Organization by using fossil fuel
  - · Emissions of Methane and Nitric oxide emitted by business activities of the Organization
- 2) SCOPE 2 GHG emissions;
- Indirect CO<sub>2</sub> emissions of the Organization by using electricity and heat (steam)
- 3) SCOPE 3 GHG emissions;
  - Indirect CO<sub>2</sub> emissions within the category 1 of SCOPE  $3^{\times 2}$
- 4) Energy Consumption etc.;

Energy consumption amount by fuel type, and power generation of solar and biomass of the Organization

The objective of this verification is to confirm that the Monitoring data in the Organization's applicable scope have been correctly calculated and reported in line with the criteria of the monitoring procedure<sup>\*\*3</sup>, and to express our views as a third party. The Organization's responsibility is to prepare the Report and report the Monitoring data, and JMACC's responsibility is to express our views on the Monitoring data of the Report as a third party.

# 2. Procedure of Verification

The Report was verified in accordance with the requirements of ISO14064-3:2019 (Greenhouse gases Part 3: Specification with guidance for the verification and validation of greenhouse gas statements), and following processes were implemented:

- Assessment regarding to the information to specify the Monitoring data in the Report, monitoring procedure, monitoring system and related documents
- Interviews with person in charge of making the Report
- Conducting on-site visits, for confirming the scope of calculations, emission sources, and data collection system of the Amagasaki Plant, Yashio Plant, Settsu Carton Co., Ltd. Itami Plant, and Howa Sangyo Co., Ltd. Hikata Factory
- Verifying the evidence for confirmation of the accuracy of the Monitoring data by sampling

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# 3. Conclusion of Verification

Within the scope of the verification activities employing the methodologies mentioned above, nothing has come to our attention that caused us to believe that Organization's Monitoring data in the Report of fiscal year 2023 were not calculated and reported in conformance with the criteria.

Verified GHG emissions (t-CO <sub>2</sub> e)					
SCOPE 1	1,131,151				
SCOPE 2 <sup>×4</sup>	403,142				
SCOPE 3 (Category 1)	653,118				

Verified Energy Consumption, etc. (GJ or MWh)								
Total Energy cons	umption <sup>×5</sup>	—	29,357,976 GJ					
Fossil fuel		—	15,480,101 GJ					
Purchased pow	er (non-renewable) <sup>×6</sup>	816,576 MWh	6,571,655 GJ					
Purchased steam		—	239,540 GJ					
Waste-derived	fuel <sup>×7</sup>	—	2,151,512 GJ					
<b>Biomass energy</b>	**8	· · · · · · · · · · · · · · · · · · ·	4,752,067 GJ					
Self-generation b	y photovoltaics and	32,801MWh	163,100 GJ					
purchased power	from renewable energy							
C. K.	Biomass	149,061 MWh						
generation by	- Self-consumption	149,061 MWh						
renewable	Photovoltaics	9,248 MWh						
energy sources	- Self-consumption	5,296 MWh						

## NOTE:

- %1 : Organizational boundary : The consolidated companies of the Organization, except for the Scope 3 calculation mentioned as below
- ※2 : Overview of categories of SCOPE 3
  - Category 1 (Purchased goods and services) : Purchased materials, services and biomass/waste-derived fuels used in process and indirect expenses. Organizational boundary is Rengo Co., Ltd.
- ※3 : Monitoring procedure of SCOPE 1, 2 and 3 : "Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (ver.2.6) ","Database of emissions unit values for Greenhouse Gas Emissions Throughout the Supply Chain (ver.3.4) ", "IDEA ver3.4 by National Institute of Advanced Industrial Science and Technology" and "Monitoring procedures" prepared by the organization.
- %4: Emission factor for electricity consumption
  - Japan: Adjusted emission factor under GHG emissions reporting system of Japan

Other countries: Emission factors by power supplier or published by national governments/authorities, or IEA Emissions Factors 2023

- %5 : Total amount (GJ, MWh) is calculated including decimal point of each item
- %6 : Power purchased without being designated as renewable energy (residuals, etc.)
- %7 : Total of Refuse paper & plastic fuel, waste tires, waste plastic, reclaimed oil
- % 8: Total of black liquor, wood chips and waste, and paper sludge

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