Environmental impact of the Komatsu Group's business activities (FY2025)

Input

Direct materials

Steel	1,158thousand t

Indirect materials *6

Paints	1,054t
Lubricants	10.7thousand kl

Energy

total	4,148TJ	100%	
Non-renewable energy: Total of non-renewable fuels	1,461TJ	35.2%	
Heavy oil A	28TJ		(1thousand kl)
Kerosene	32TJ		(1thousand kl)
Light oil	165TJ		(4thousand kl)
Gasoline	11TJ		(0.3thousand kl)
City Gas	609TJ		(15million m³)
Natural Gas	317TJ		(8million m³)
Liquefied natural gas (LNG)	120TJ		(3thousand t)
LPG	179TJ		(4thousand t)
Renewable energy: Biomass, Solar	158TJ	3.8%	
Power consumption	2,498TJ	60.2%	(694GWh)
Regional heat usage	24TJ	0.6%	(7GWh)
Steam usage	6TJ	0.2%	(2thousand t)
Purchased electricity from renewable energy	229GWh		
In-house generated renewable power consumption	30GWh		

Water input

total	2.8million m³
Groundwater	2.0million m³
Water supply	0.6million m³
Industrial water	0.1million m³

Energy *2

Diesel fuel	879TJ
	(23thousand kl)

Packaging *3

Steel	2,587t
Resins	230t
Wood, cardboard	6,311t

Energy *4

total	121TJ	
Electricity	98TJ	12GWh
Kerosene	13TJ	0.3thousand kl
Other fuels	10TJ	
Indirect materials, Oils		

Energy

Fuel

Indirect materials, Oils

Energy

Fuel, electricity

Development
- Ecology & Economy
- LCA design

Procurement of Materials
- Green procurement

Manufacturing (35 Komatsu Group Manufacturing Facilities in and outside Japan)
- Mitigation of climate change (energy conservation, CO_2 reduction)
- Effective utilization of resources
- Conservation of air and water environment and management of chemical substances

Product

Product weight (construction, mining, foresty and Industrial equipment) 1,195thousand t

Number of products (construction, mining, foresty and Industrial equipment) 52,137vehicles

Logistics (26 Komatsu Group Logistics Facilities in and outside Japan)
- CO_2 reductions in logistics
- Improvement of transport efficiency
- Improvement of packing materials

Sales and After-sales Services
- Provision of environmentally -friendly products and services
- Creation and operation of transaction network for used components (parts)

Use
- Reduction of environmental impact during the product usage stage
- Provision of solutions for customers' environmental activities
- Promotion of fuel-efficient operation

Recovery and Disassembly
- Promotion of "Reman," in which used components (parts) are recovered, remanufactured, and supplied back to the market

Output

Reuse of products
Reuse of parts

Recycling of materials (outsourcing)

Atmospheric discharge

GHG	Energy-related CO_2 emissions	299thousand t-CO_2 *5
	Biological CO_2 emissions (biomass)	9t-CO_2
	Non-energy-related CO_2 emissions	784t-CO_2 *1
	CH_4	799t-CO_2 *1
	N_2O	279t-CO_2 *1
	HFC	945t-CO_2 *1
	PFC	–
	SF_6	–
	NF_3	–
SOx		1t *1
NOx		32t *1
PRTR Subject matter		211t *1
VOC		494t *1

Noise and vibration

Atmospheric discharges *2

CO_2	60.5thousand t

Returnable pallets

Atmospheric discharges *4

CO_2	6.8thousand t

Waste oil products

Recycling conducted at oil manufacturers

Atmospheric discharges

CO_2	24,626thousand t

Noise and vibration

Use in other industrial sectors

Atmospheric discharges

CO_2

Hazardous waste manifests

Waste disposal

Amount of energy sold

Electric energy sold (renewable energy)	15TJ (4GWh)
Regional heat quantity sold	–
Steam volume sold	–

Water-based discharges *1

Wastewater	1.9million m³
BOD emissions	4t
COD emissions	7t
Substances under the PRTR Law (public water areas)	95t
Substances under the PRTR Law (sewerage)	–

Waste generation

Total waste generated	67.9thousand t

Non-hazardous waste generated	59.4thousand t

Material recycling

Total waste recycled	44.7thousand t

Total waste disposed

Total volume disposed	14.7thousand t
– of which: Waste landfilled	11.6thousand t
: incineration with energy recovery	2.6thousand t
: incineration without energy recovery	0.5thousand t

Hazardous waste generated *7	8.5thousand t

Material recycling

Total hazardous waste recycled	7.0thousand t

Total hazardous waste disposed

Total volume disposed	1.5thousand t
– of which: Hazardous waste landfilled	0.0thousand t
: Hazardous waste incinerated with energy recovery	0.6thousand t
: Hazardous waste incinerated without energy recovery	0.9thousand t

Coverage of Data (Scope of Environmental Data)
*1: 11 Komatsu manufacturing facilities in Japan
*2: 16 logistics bases in Japan, 10 overseas logistics bases
*3: 14 logistics bases in Japan (excluding, Hokkaido Center and Kyushu Center from 16 bases in Japan)
*4: Sales agencies and rental companies (Komatsu Customer Support Japan) in Japan
*5: Including factory forklifts
*6: For Komatsu plants in Japan and some overseas suppliers
*7: Hazardous waste as defined by each country