

Sustainability Certificate 2025

Liveo Research GmbH, Bötzingen

made valuable contributions to climate and environmental protection through its collaboration with the REMONDIS Group again in 2025.*

- Raw materials savings:
 - Fossil resource savings amounting to 60.5 t oil equivalent
 - Consumption of metals amounting to 4.6 t copper equivalent
 - Biogenic resource savings amounting to 35.4 t wood equivalent
- Energy savings amounting to 965.7 MWh
- Greenhouse gas emission savings amounting to 49.1 t CO₂ equivalent

According to the Waste Balance 2025, the following waste streams were taken into account in the evaluation process: biowaste, tree & plant cuttings // glues & printing waste // kitchen & canteen waste // materials contaminated with oil // mixed waste for recycling // paper from files which have been destroyed // paper, card, cardboard plastic film, plastics // small electronic devices // spray cans.

The environment thanks. We thank you for your trust.

REMONDIS SE & Co. KG


Thomas Conzendorf
Board Member

REMONDIS Sustainable Services GmbH


Sven Averhage
Managing Director

* The data was determined by the REMONDIS Group using a scientific calculation tool developed by the Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Institute Branch Sulzbach-Rosenberg. As of: 12.2025

Waste report 2025

Customer: Liveo Research GmbH, Bötzingen

Customer ID: 313403

Waste Code	Waste Designation	Container Type	Amount	Unit	Transports
06 01 06*	other acids	AS 1000 IBC	3.82	TO	1
		containers of different sizes	3.00	KG	1
06 02 05*	other bases	AS 1000 IBC	1,034.00	KG	1
		containers of different sizes	8.00	KG	1
07 01 04*	other organic solvents, washing liquids and mother liquors	containers of different sizes	2.00	KG	1
08 04 09*	waste adhesives and sealants	200 l bunghole lid drum	6.06	TO	14
		800 l ASP - safety container	1.49	TO	8
12 01 09*	machining emulsions and solutions free of halogens	containers of different sizes	2.86	TO	1
12 01 12*	spent waxes and fats	containers of different sizes	2.00	KG	1
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils	200 l metal drum	2.73	TO	3
13 08 99*	wastes not otherwise specified	800 l ASP - safety container	0.85	TO	1
15 01 01	1.04 cardboard (B19)	20.0 cbm roll-off tippers press	21.93	TO	9
15 01 02	PE-foils, colourful	20.0 cbm roll-off tippers press	47.16	TO	9
15 01 06	mixed waste for recycling	10.0 cbm skip-loaders container	2.92	TO	3
		20.0 cbm roll-off tippers press	86.82	TO	20
15 01 10*	packaging containing residues of or contaminated by hazardous substances	800 l ASP - safety container	71.00	KG	1
		AS 1000 IBC	740.00	KG	1

Waste report 2025

Customer: Liveo Research GmbH, Bötzingen

Customer ID: 313403

Waste Code	Waste Designation	Container Type	Amount	Unit	Transports
15 02 02*	absorbents, filter materials	800 l ASP - safety container	17.61	TO	18
16 02 13*	discarded equipment containing hazardous components	containers of different sizes	137.00	KG	1
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	120 l drums with lock rings	36.00	KG	1
16 05 07*	discarded inorganic chemicals consisting of or containing hazardous substances	containers of different sizes	4.00	KG	1
16 06 04	alkaline batteries	containers of different sizes	100.00	KG	1
16 06 05	other batteries and accumulators	Retron 240	20.00	KG	1
16 10 01*	aqueous liquid wastes containing hazardous substances	AS 1000 IBC	69.94	TO	12
20 01 01	data and file destruction	pallet goods	4.68	TO	3
		T7 data security container	0.14	TO	6
20 01 08	biodegradable kitchen and canteen waste	120 l wheelie bin	97.00	PCS	98
20 01 33*	batteries and accumulators	containers of different sizes	17.00	KG	1
20 02 01	biodegradable waste	7.0 cbm skip-loaders container	1.99	TO	2

Greenhouse Gas Emission Value 2025

Liveo Research GmbH, Bötzingen

Based on the Waste Balance 2025, the greenhouse gas emissions were determined in a CO₂ equivalent. The calculation model for the greenhouse gases is oriented towards the life cycle assessment methodology of DIN EN ISO 14040 and is based on REMONDIS average values and publicly available life cycle assessment data. All process steps are taken into account to calculate the figures for the Greenhouse Gas Emission Value – from the moment the waste is generated, all the way through to the materials being recycled for reuse and/or to recover energy. The data was determined by the REMONDIS Group using a scientific calculation tool developed by the Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT, Institute Branch Sulzbach-Rosenberg. The results can be used in the calculation of the Scope 3 emissions.



Greenhouse gas emissions: 149.2 t CO₂ equivalent.

According to the Waste Balance 2025, the following waste streams were taken into account in the calculation process: biowaste, tree & plant cuttings // glues & printing waste // kitchen & canteen waste // materials contaminated with oil mixed waste for recycling // paper from files which have been destroyed // paper, card, cardboard // plastic film, plastics small electronic devices // spray cans.

Recycling overview 2025

Customer: Liveo Research GmbH, Bötzingen

Customer ID: 313403

	Total waste generated [t]	Total waste generated [%]	Hazardous waste [t]	Hazardous waste [%]	Non-hazardous waste [t]	Non-hazardous waste [%]
Preparation for reuse	0.00 t	0.00%	0.00 t	0.00%	0.00 t	0.00%
Recycling	129.10 t	64.84%	25.26 t	12.69%	103.83 t	52.15%
Other recovery	70.01 t	35.16%	0.06 t	0.03%	69.95 t	35.13%
Amount of waste diverted from disposal for recovery	199.11 t	100.00%	25.32 t	12.72%	173.78 t	87.28%
Incineration	0.00 t	0.00%	0.00 t	0.00%	0.00 t	0.00%
Landfill	0.00 t	0.00%	0.00 t	0.00%	0.00 t	0.00%
Other disposal	0.00 t	0.00%	0.00 t	0.00%	0.00 t	0.00%
Amount of waste directed to disposal	0.00 t	0.00%	0.00 t	0.00%	0.00 t	0.00%
Total amount of waste	199.11 t	100.00%	25.32 t	12.72%	173.78 t	87.28%

Addendum to the evaluation tool used for REMONDIS' Sustainability Certificate Liveo Research GmbH, Bötzingen

The REMONDIS Group's Sustainability Certificate follows the central principle of a life cycle assessment and looks at the impact that the treatment of waste streams has on the environment and climate. As a rule, recycling waste to recover materials for reuse and/or to recover energy are both associated with saving virgin raw materials, energy and greenhouse gas emissions, compared to the use of primary resources. All process steps are taken into account to calculate the figures for the Sustainability Certificate – from the moment the waste is generated, all the way through to the materials being recycled for reuse and/or to recover energy and the substitution of virgin raw materials.

These savings are calculated with the help of this evaluation model by offsetting the negative and positive factors using a method based on the DIN EN ISO 14040 life cycle assessment. The values calculated are reported in line with the GHG Protocol.

The following equivalent values are shown to illustrate the figures documented on the certificate:

- The energy savings amounting to 965.7 MWh are equivalent to the volumes of energy needed to cover the annual electricity and heat requirements of 57 average households in Germany.
- The greenhouse gas savings amounting to 49.1 tonnes CO₂ equivalent are the same as the equivalent emissions caused by a car travelling 0.3 million kilometres.

Breakdown of the environmental impacts into positive and negative factors in 2025

- Consumption of raw materials:
 - Consumption of fossil resources amounting to 15.4 t oil equivalent
 - Consumption of metals amounting to 7.4 t copper equivalent
 - Consumption of biogenic resources amounting to 12.2 t wood equivalent
(with an average density of 537.5 t/m³)
- Energy consumption amounting to 354.1 MWh
- Greenhouse gas emissions amounting to 149.2 t CO₂ equivalent



- Raw materials savings:
 - Fossil resource savings amounting to 75.9 t oil equivalent
 - Metal savings amounting to 2.8 t copper equivalent
 - Biogenic resource savings amounting to 47.6 t wood equivalent
(with an average density of 537.5 t/m³)
- Energy savings amounting to 1,319.8 MWh
- Greenhouse gas emission savings amounting to 198.3 t CO₂ equivalent

Calculation methodology of the REMONDIS sustainability certificate



The calculation model for the assessment of savings of primary resources, energy and greenhouse gases by waste disposal and utilization is oriented towards the life cycle assessment methodology of DIN EN ISO 14040. The model takes into account the following process steps:

- Transportation
- Pretreatment
- Treatment and Utilization

Regarding waste recycling, the calculation model implicates the respective savings of primary resources.

Regarding energetic recovery of waste, the calculation model considers the energy gained from incineration or fermentation as well as the raw material savings achieved through the substitution of the German electricity and heat mix.

Regarding the savings of greenhouse gas emissions, the calculation model implicates the emissions and savings of all process steps.

Fraunhofer UMSICHT, Institute Branch Sulzbach-Rosenberg, assumes responsibility for the calculation model. Displayed results are based on customer-specific input data.



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- Deputy Head of Department Secondary Resources and Assessment -

Sulzbach-Rosenberg, 18th of December 2025