

# Environment Report 2023

Lonstroff AG Merenschwand, Hallwil and Logatec



Created by: Daniele Cosetti

29<sup>th</sup> June 2023

## Summary

<b>1. INTRODUCTION OF LONSTROFF</b>	<b>3</b>
<b>2. PREAMBLE</b>	<b>4</b>
<b>3. MANAGEMENT SUMMARY</b>	<b>4</b>
<b>4. EVALUATION OF THE ENVIRONMENT GOALS DURING 2022</b>	<b>5</b>
<b>5. CO2 REDUCTION</b>	<b>5</b>
<b>6. ENERGY CONSUMPTION</b>	<b>6</b>
<b>7. ENVIRONMENT ACTIVITIES IN 2022</b>	<b>6</b>
7.1 Audits	6
7.2 Social contribution in the region	7
7.3 Improvements	8
7.4 Other activities	8
7.5 Legal compliance data for air and wastewater	9
<b>8. CASE OF EMERGENCY</b>	<b>9</b>

## 1. Introduction of Lonstroff



Headquarter

Production site Merenschwand

Switzerland

8'000 m<sup>2</sup> / 135 employees

Production site Logatec

Slovenia

30'000 m<sup>2</sup> / 120 employees

Production site Hallwil

Switzerland

4'000 m<sup>2</sup> / 15 employees



Producing medical rubber parts and laminates

## 2. Preamble



Daniele Cosetti, Head of Safety and Environment

As a Swiss industrial company and as a member of SRI, we take responsibility for finding answers to the most pressing challenges of our time. Sustainable entrepreneurship and profitable growth do not exclude each other. They depend on each other.

That is why we have anchored sustainability as an integral part of our corporate strategy and set ourselves ambitious goals. We are committed to the sustainability goals of the United Nations. These include, for example, “Good Health and well-being” or “Responsible consumption and production”. By 2030 we want to halve our CO<sub>2</sub>-emissions and by 2050 at the latest we want to be carbon-neutral. To this end, we will commission an analysis and based on the costs and savings, initiate the necessary measures. As you read this report, you will find that we, as a sustainable company, have made quite a difference over the past few years. For the future we want to harmonize ecological, social and business aspects – for ourselves as company, for our stakeholders and for society as a whole.

## 3. Management summary

Not all environmental goals have been achieved.

About the same number of tons of parts were manufactured in Merenschwand as in the previous year. Nevertheless, the KPI's (water, electricity) turned out worse. The reasons for this are the clean room 7, which is still underutilized, and machine failures. The high water consumption is due to washing machine malfunctions and re-washing of caps.

The cancellation of the night shift had a negative impact on Laminate in Hallwil. Due to the high order backlog, work had to be done on weekends instead of the night shift. Since the machines require a longer warm-up time, they ran for practically 24 hours and 7 days.

The surveillance audit of ISO 14001/2015 was carried out successfully.

Production in Slovenia has been further increased. Now the consumption data are also available so that goals can be derived in the future.

We had no claims from authorities and neighbors.

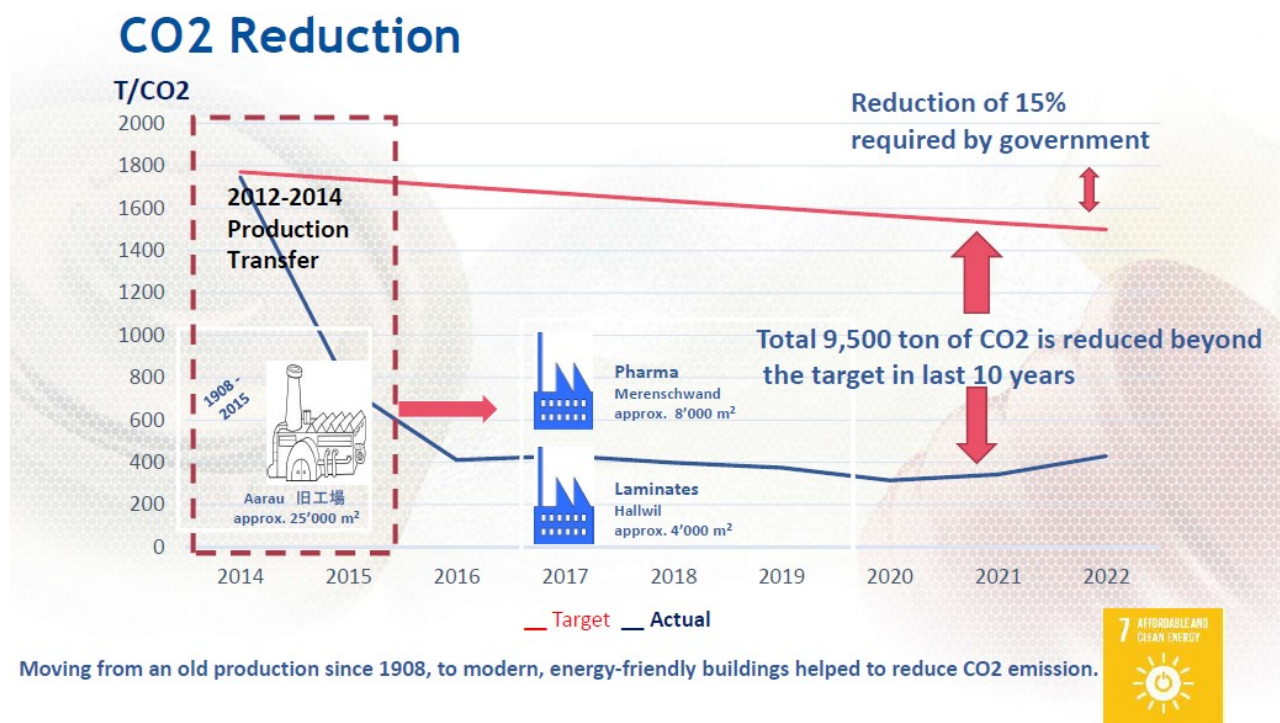
## 4. Evaluation of the environment goals during 2022

Here you can see the evaluation of the targets we have set.

Topic	Unit	Goal	Result	Activities	
Water consumption per T produced parts in pharma	[m <sup>3</sup> /T]	< 27.0 (99%)	☹️	Consistent use of the sanitizing tank for the pre-wash system. Rewashing of parts	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
Mixing energy	[kWh/T]	< 458 (99%)	☹️	Adjustment of operating time of the mixer to the production volume was not enough	7 AFFORDABLE AND CLEAN ENERGY
Energy for pharmaceutical (Merenschwand factory)	[kWh/T]	< 8'450 (98%)	☹️	Additional clean room was installed (ISO 7)	7 AFFORDABLE AND CLEAN ENERGY
Energy for laminates (Hallwil factory)	[kWh/T]	< 7.0 (98%)	☹️	Change from three to two shifts and additional work on the weekend	7 AFFORDABLE AND CLEAN ENERGY
VOC	[Kg/100m]	< 5.1 (99%)	☺️	Optimization and adaption of the grammage of the coating solution	3 GOOD HEALTH AND WELL-BEING
CO2 reduction	T	35	☺️	Savings in heating oil and gas consumption	3 GOOD HEALTH AND WELL-BEING
Authorities and neighbourhood	Number	0	☺️	Regular patrols by safety and environmental team. Update legal requirements, conduct necessary activities	11 SUSTAINABLE CITIES AND COMMUNITIES
Sensitization of employees in environmental issues	All staff	30.11.2021	☺️	Training course on environmentally responsible behavior	12 RESPONSIBLE CONSUMPTION AND PRODUCTION

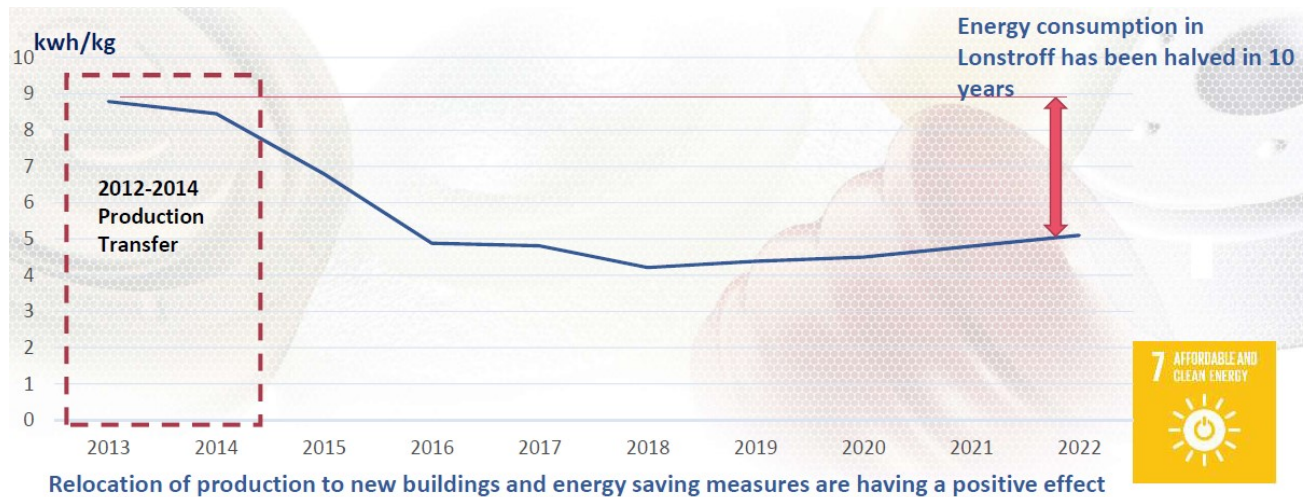
## 5. CO2 Reduction

Despite the increasing volume of compound production, we have succeeded in reducing CO2 emissions in the last ten years. As a result, we were able to significantly undercut the targets agreed with the authorities (BAFU).



## 6. Energy consumption

Moving from Aarau to Merenschwand and Hallwil and many small improvements has contributed to the fact that we consume massively less electricity. The picture below shows the energy consumption in Kwh per kg.



## 7. Environment activities in 2022

### 7.1 Audits

Several external Audits were performed with respect to the environment. These audits were done through authorities or other external organisations:

- Hazardous goods audit through Neosys.
- ISO 14001 surveillance audit through SQS in Merenschwand, Hallwil and Logatec LSI.

On all of these audits Lonstroff did not get a major deviation. The activities to be done are summarized in each single report.

The legally required internal controls were also done by the Environmental-Team.

## 7.2 Social contribution in the region

Carmen Perez from purchasing department is since many years a member of the Life-guards on the lake of Lucerne. The Life-guards mission is to rescue people in need. As a member of this organization, Carmen organizes the catering for events and is responsible for ensuring that all 75 members are provided with the required clothing.



After 35 years a new lifeboat was needed. There Carmen was also involved in building a new boat according to their wishes with hard work and crowdfunding.



Every year in August the team of Life-Guards included Carmen organize the “Lake cross over” for everyone. Last year they had 460 swimmers. There are a lot of logistics to plan. From the safety in the water over the transport of the belongings from the participants or time measurements.

To coordinate it on both lakesides is often a challenge but they are all with heart and soul into it. Every swimmer gets bathing cap in a bright colour, a number on the right arm and a badge on his ankle. With that badge they can check if the person has crossed from the start to the finish including the time for swimming.

### 7.3 Improvements

- By implementing and realizing the action plan with the BAFU, the pollutant emissions by the laminates have been kept below the required limit values.
- The use of additional catch basins in Merenschwand ensured that no pollutants could leak out.
- In the Merenschwand plant, alarm horns and manual alarm buttons were added so that the alarm is fully guaranteed in the case of an incident.

### 7.4 Other activities

- The legal requirements for 2022 have been updated, were checked for their fulfilment and were carried out the necessary activities, such as inspection or tests.
- The targets agreed with the BAFU regarding the reduction of CO2 emissions were achieved. We were able to sell certificates for CHF 88'000.
- Regular patrols by the safety and environmental manager and the UAS-Team has been done.
- The VOC and CO2 balance was timely submitted to the authorities. The refund was granted.
- Two training of all employees in environmental issues and fire protection has been done.
- Evacuation drills were carried out with all employees in Merenschwand, Logatec and Hallwil.
- In Hallwil, the local fire brigade carried out an exercise and tested various scenarios.





## 7.5 Legal compliance data for air and wastewater

### Hallwil and Merenschwand

	施設 Facility	項目 Item	単位 Unit	規制値 Regulation Value	2022年度実績 FY 2022 results			法律名称など Legislation to verify the regulation value
					最小 Min	最大 Max	平均 Ave.	
大気への排出 Emission to the atmosphere	ボイラー Boiler	SOx	metric ton	—				"Luftreinhalte-Verordnung" measured by Kanton Aargau 28.09.2021. Next measurement Sep. 2024
		NOx	VOL ppm	250			64	
		ばいじん Dust, Particulate matter	g/Nm <sup>3</sup>	—				
水域への排出 Drainage	排水 Waste Water	BOD	mg/L	—				"Bundesgesetz über den Schutz von Gewässer" and the agreement with the local government
		SS濃度 Suspended solids	mg/L	—				
		pH	—	6.5-9.0	Within the regulated value			
		油分濃度 Oil content	mg/L	—				

### Logatec

	施設 Facility	項目 Item	単位 Unit	規制値 Regulation Value	2022年度実績 FY 2022 results			法律名称など Legislation to verify the regulation value
					最小 Min	最大 Max	平均 Ave.	
大気への排出 Emission to the atmosphere	ボイラー Boiler	SOx	mg/m <sup>3</sup>	10	—	—	—	Zakon o varstvu okolja Uredba o uporabi fluoriranih toplogrednih plinov in ozonu škodljivih snoveh Uredba o emisiji snovi v zrak iz malih kurilnih naprav
		NOx	mg/m <sup>3</sup>	100	59.3	67.6	63.0	
		ばいじん Dust, Particulate matter	g/m <sup>3</sup>	—	—	—	—	
水域への排出 Drainage	排水 Waste Water	BOD	mg/L	—	6.0	50.0	7.3	Zakon o varstvu okolja Zakon o vodah
		SS濃度 Suspended solids	mg/L	80	12.0	55.0	25.5	
		pH	—	6.5-9.5	7.4	8.5	7.9	
		油分濃度 Oil content	mg/L	20	<0,03	<0,03	<0,03	

## 8. Case of emergency

No environmental relevant emergency occurred in 2022.