

# NowyStyl

## *CO<sub>2</sub> Reduction Plan Nowy Styl*

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## Table of contents

1	Introduction.....	3
1.1	READING GUIDE .....	3
2	Energy Assessment.....	4
2.1	INTRODUCTION.....	4
2.2	PREVIOUS ENERGY ASSESSMENTS .....	4
2.3	ENERGY ASSESSMENT 2023 .....	4
3	CO <sub>2</sub> Objectives.....	5
3.1	COMPARISON OF THE OBJECTIVES WITH PEERS .....	5
3.2	MAIN CO <sub>2</sub> OBJECTIVE .....	5
4	CO <sub>2</sub> action plan.....	6
4.1	MEASURES AND TIME SCHEDULE.....	6
4.1.1	Poland.....	6
4.1.2	Germany .....	8
4.1.3	The Netherlands.....	8
5	Sector and Chain Initiatives.....	10
5.1	ACTIVE PARTICIPATION.....	10
5.2	CURRENT INITIATIVE .....	10
5.2.1	Budget .....	10

## 1 Introduction

This document will present the scope 1 & 2 CO<sub>2</sub> reduction objectives of Nowy Styl. To determine the CO<sub>2</sub>-objectives we have first determined the CO<sub>2</sub> footprint was made for scope 1 & 2 in accordance with the requirements as stated in ISO14064-1 and the GHG Protocol.

Before setting the reduction objective an inventory was made of possible reduction measures. With the reduction measures that are chosen a CO<sub>2</sub>-reduction plan was developed. In this reduction plan de CO<sub>2</sub> reduction objectives and the measures that lead to this objective will be described.

In chapter two of this document the main objective and the scope 1 and 2 objectives will be stated. In chapter three the progress within the reduction aim will be described. In chapter four the action plan concerning the measures has been worked out.

This CO<sub>2</sub>-reduction plan has been made with approval of management. The progress in the objectives will be assessed every half year.

### 1.1 Reading guide

This document is as evidence for the requirements for the CO<sub>2</sub>-Performance Ladder. In each chapter, some of the requirements are met. Underneath you will find a reading guide.

Chapter in this document	Requirement of the CO <sub>2</sub> -Performance Ladder
Chapter 2: Energy Assessment	2.A.3
Chapter 3: CO <sub>2</sub> Objectives	3.B.1
Chapter 4: Measures taken	3.B.1
Chapter 5: Sector and Chain initiatives	3.D.1 and 3.D.2

## 2 Energy Assessment

### 2.1 Introduction

The aim of the energy assessment is to analyse the current and historical energy uses of Nowy Styl. This assessment will compose of the minimal of 80% of the energy used. Within this assessment, we would like to identify the individual entities that have the biggest impact on the CO<sub>2</sub> footprint. After this assessment, the most energy consuming process within Nowy Styl can be identified and appropriate reduction measures can be taken. The analysis that was done for this assessment can be found in document CO<sub>2</sub>-footprint Nowy Styl 2022 (CO<sub>2</sub>-PL) 20-04-2023.xlsx

The biggest energy consumption and subsequent CO<sub>2</sub> emissions are as follows:

- Electricity consumption production in Poland: 38,1 %
- Energy consumption Production Poland: 46,6 %
- Fuel usage car fleet Poland: 3,7 %

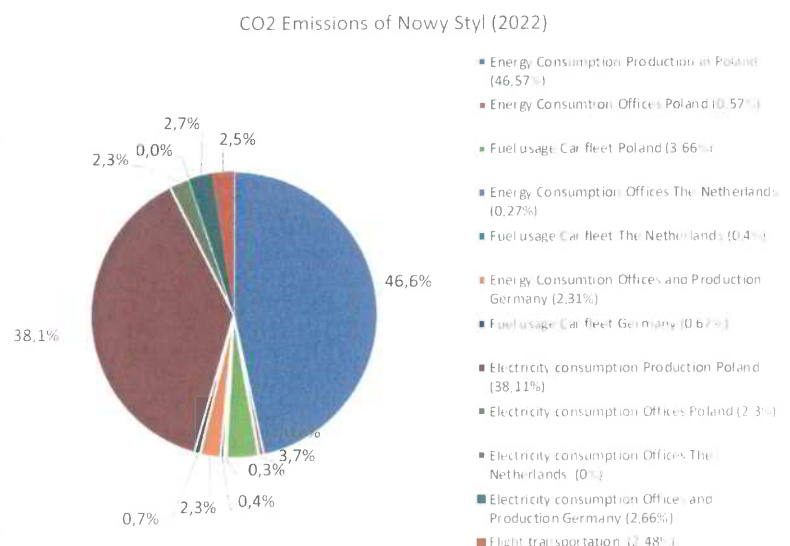
### 2.2 Previous Energy Assessments

This is the third energy assessment Nowy Styl perform. Last year the most important sources of the CO<sub>2</sub>-emissions where the same. A small shift from electricity to energy consumption (heat) can be seen. This can be explained by the purchase of the green electricity (produced with biomass) in Poland.

### 2.3 Energy Assessment 2023

For the energy assessment we have used the data that is available of 2022. The energy assessment has been conducted on the footprint in the file: CO<sub>2</sub>-footprint Nowy Styl 2022 (CO<sub>2</sub>-PL) 17-05-2023.xlsx. We have calculated the CO<sub>2</sub> emissions on the various data provided. This data shows that the most emissions are caused by the production locations in Poland. The greatest emissions are caused by the electricity used. This majority of the electricity is produced by the Coal-fired power stations in Poland. The greatest reduction in the emissions will therefore also be caused by transferring electricity from a more renewable source (wind, solar or biomass). Nowy Styl has bought 5.800 MWh of green electricity (produced with windmills in Poland).

In the document CO<sub>2</sub>-footprint Nowy Styl 2022 (CO<sub>2</sub>-PL) 17-05-2023.xlsx a detailed calculation and measures that can be taken has been made. This shows the contribution of the different locations and the contribution of the measures on the whole CO<sub>2</sub> footprint and the contribution the Scope 1 and 2 respectively.



## 3 CO<sub>2</sub> Objectives

### 3.1 Comparison of the objectives with peers

The CO<sub>2</sub>-Performanceladder states that the objectives of Nowy Styl need to be realistic and ambitious. To assess this an analysis was made of the objectives of peers in the sector. Nowy Styl is ambitious within the sector.

Royal Ahrend is a company that works in the same industry. Their main goals for the company (scope 1 & 2 ) are as follows:

1. Prevention and reduction of waste
2. Reduction of the use of electricity
3. The reduction of the use of fuel (for cars)
4. Reduction of transportation kilometres and materials used

Their main goal is a reduction of 35% in 2025 compared to 2018. So that is a reduction of 5% per year. The goal of Nowy Styl is to reduce 4,3% per year, for the next 7 years.

The closest company to compare with is Velopa. They produce street furniture. Their main goals for the company (scope 1 & 2) are as follows:

5. Prevention and reduction of waste
6. Reduction of the use of electricity
7. The reduction of the use of fuel (for cars)

Their main goal is a reduction of 30% in 2020 compared to 2008. So that is a reduction of 2,5% per year. The goal of Nowy Styl is to reduce 4,3% per year, for the next 7 years. So the goals are comparable.

### 3.2 Main CO<sub>2</sub> objective

Nowy Styl has the objective to reduce 4,3% annually until 2025.

#### **Scope 1 and 2 including business flights objective Nowy Styl\***

*Nowy Styl produces 30% less CO<sub>2</sub> emissions in 2025 compared to 2018\**

\* These objectives are related to the annual turnover of Nowy Styl

This is specified in the following objectives for scope 1 and 2:

- Scope 1: 10% reduction in 2025 relative to 2018
- Scope 2 & BT: 40% reduction in 2025 relative to 2018

## 4 CO<sub>2</sub> action plan

### 4.1 Measures and time schedule

All reductions and measures are related to the year 2018. In future years the CO<sub>2</sub> emissions will be related to annual turnover. If the company grows the figures will be compensated because of this.

#### 4.1.1 Poland

Company	Emission Source	ton CO <sub>2</sub>	Reduction measure	Estimated reduction on this emission in %	Estimated reduction on this emission in ton CO <sub>2</sub>	Status measure	Total reduction on CO <sub>2</sub> footprint in %	Total reduction Scope 1
<b>Energy Consumption Production in Poland</b>		<b>8.466,42</b>						
Jaslo	Natural Gas	1.179,72	Buy energy efficient machines to optimise production	1,0%	11,80	In preparation	0,06%	0,12%
Jaslo	Diesel	0,68	Buy energy efficient machines to optimise production	1,0%	0,01	In preparation	0,00%	0,00%
Jaslo	Gasoline	0,26	Buy energy efficient machines to optimise production	1,0%	0,00	In preparation	0,00%	0,00%
Jaslo	Coal	235,30	Buy energy efficient machines to optimise production	1,0%	2,35	In preparation	0,01%	0,02%
Jaslo - Calculated from kg to liter	LPG	52,21	Buy energy efficient machines to optimise production	1,0%	0,52	In preparation	0,00%	0,01%
Jaslo	Fuel Oil	18,11	Buy energy efficient machines to optimise production	1,0%	0,18	In preparation	0,00%	0,00%
Jaslo - External heating is produces bij biomass	External Heat	922,60	Buy energy efficient machines to optimise production	1,0%	9,23	In preparation	0,04%	0,09%
Rzepedz	Diesel	87,40	Buy energy efficient machines to optimise production	1,0%	0,87	In preparation	0,00%	0,01%
Rzepedz	Gasoline	0,18	Buy energy efficient machines to optimise production	1,0%	0,00	In preparation	0,00%	0,00%
Rzepedz- Calculated from kg to liter	LPG	92,65	Buy energy efficient machines to optimise production	1,0%	0,93	In preparation	0,00%	0,01%
Rzepedz - Calculated from Mg to GJ	Biomass	5.877,31	Buy energy efficient machines to optimise production	1,0%	58,77	In preparation	0,28%	0,58%

Based on the information provided in the conference call 22 July 2019 we estimated a CO<sub>2</sub> reduction of 1 percent average in the production based on using more efficient production methods/machines. See table above. We do not foresee CO<sub>2</sub> reduction in energy consumption of Polish offices or car fleet.

Company	Emission Source	ton CO <sub>2</sub>	Reduction measure	Estimated reduction on this emission in %	Estimated reduction on this emission in ton CO <sub>2</sub>	Status measure	Total reduction on CO <sub>2</sub> footprint in %	Total reduction scope 2
Electricity consumption Production Poland		9.008,53						
Jaslo	Electricity	8.682,74	Looking into Wind/Solar produces Electricity	30,0%	2.604,82	In preparation	12,46%	24,02%
Rzepedz	Electricity	4.029,49	Looking into Wind/Solar produces Electricity	30,0%	1.208,85	In preparation	5,78%	11,15%
Green Elektrycy (Poland)	Electricity	- 3.703,70	Reduction of 1.443 ton CO <sub>2</sub> (10% on scope 2 & 5% reduction on total CO <sub>2</sub> -footprint)					

In the same conference we came to the conclusion that the largest impact on the CO<sub>2</sub> emissions is the electricity consumption at the production sites in Poland. Causes by the fact that coal is the main method of electricity production. Therefore, we decided in the videoconference to research and implement renewable energy sources (wind or solar produced electricity). This results in an estimated reduction 30% by the year of 2025. This 30% we have spread linearly over the years. After doing the research we can re-evaluate these figures.

Information in the same video conference stated that the offices in Krakow will implement LED lighting in the near future. We estimated a decrease of 5% stating in 2020.

Company	ton CO <sub>2</sub>	Reduction measure	Estimated reduction on this emission in %	Estimated reduction on this emission in ton CO <sub>2</sub>	Status measure	Total reduction on CO <sub>2</sub> footprint in %	Total reduction Scope 1	Total reduction scope 2
<b>Flight transportation</b>	<b>104,13</b>							
All	21,39	Installed a good Conference System	1,0%	0,02	has been done in 2018	0,00%	NA	0,00%
All	58,2	Installed a good Conference System	1,0%	0,06	has been done in 2018	0,00%	NA	0,01%
All	24,72	Installed a good Conference System	1,0%	0,02	has been done in 2018	0,02%	NA	0,05%

Based on the lessons learned during the COVID-19 pandemic, the installation and the increased frequency of usage of the video conference system we expect a reduction of 10% in flights in the year 2022.

## 4.1.2 Germany

Company	ton CO <sub>2</sub>	Reduction measure	Estimated reduction on this emission in %	Estimated reduction on this emission in ton CO <sub>2</sub>	Status measure	Total reduction on CO <sub>2</sub> footprint in %	Total reduction Scope 1	Total reduction scope 2
<b>Energy consumption Offices and Production Germany</b>	<b>605,02</b>							
Steyerberg - Calculated from kwh to m3	76,84	Reduction of heating energy by 2%	2,0%	1,54	Has been completed for 75%	0,01%	0,02%	NA
Steyerberg - Calculated from kwh to liter	49,32		2,0%	0,99	Has been completed for 75%	0,00%	0,01%	NA
Steyerberg - Calculated from kwh to GJ	149,60		2,0%	2,99	Has been completed for 75%	0,01%	0,03%	NA
Steyerberg - Calculated from kwh to m3	329,26		2,0%	6,59	Has been completed for 75%	0,03%	0,07%	NA
<b>Fuel usage Car fleet Germany</b>	<b>130,81</b>							
Steyerberg	121,30			-		0,00%	0,00%	NA
Steyerberg	9,52			-		0,00%	0,00%	NA
<b>Electricity consumption Offices and Production Germany</b>	<b>767,73</b>							
Steyerberg	767,73	Energy savings on electricity	2,0%	15,35	85% done	0,07%	NA	0,14%
<b>Flight transportation</b>	<b>34,77</b>							
All	7,13	Installed a good Conference System	1,0%	0,01	has been done in 2018	0,00%	NA	0,00%
All	19,40	Installed a good Conference System	1,0%	0,02	has been done in 2018	0,00%	NA	0,01%
All	8,24	Installed a good Conference System	1,0%	0,01	has been done in 2018	0,02%	NA	0,05%

Based on the measures mentioned in the sustainability report of Nowy Styl Deutschland GmbH we have made the above table. The results in a 2% reduction on energy for Germany.

## 4.1.3 The Netherlands



Company	ton CO <sub>2</sub>	Reduction measure	Estimated reduction on this emission in %	Estimated reduction on this emission in ton CO <sub>2</sub>	Status measure	Total reduction on CO <sub>2</sub> footprint in %	Total reduction Scope 1	Total reduction scope 2
<b>Energy Consumption Offices The Netherlands</b>	<b>28,52</b>							
Amersfoort	28,52			-		0,00%	0,00%	NA
<b>Fuel usage Car fleet The Netherlands</b>	<b>70,93</b>							
Amersfoort	16,78	2 cars transfer from diesel to full electric	3,0%	0,50	First cars in 4Q 2018	0,00%	0,01%	NA
Amersfoort	54,15	2 cars transfer from gasoline to full electric	3,0%	1,62	First cars in 4Q 2019	0,01%	0,02%	NA
<b>Electricity consumption Offices The Netherlands</b>	<b>0,50</b>							
Amersfoort	0,50	Transfer to certified green electricity from NL	100,0%	0,50	In preparation	0,00%	NA	0,00%
<b>Flight transportation</b>	<b>34,77</b>							
All	7,13	Installed a good Conference System	1,0%	0,01	has been done in 2018	0,00%	NA	0,00%
All	19,40	Installed a good Conference System	1,0%	0,02	has been done in 2018	0,00%	NA	0,01%
All	8,24	Installed a good Conference System	1,0%	0,01	has been done in 2018	0,02%	NA	0,05%

In the conference call on 22 July 2019 we mentioned measurements for the Netherlands. You will find them in the table above.

## 5 Sector and Chain Initiatives

The CO<sub>2</sub>-Performance Ladder invites certified companies to attend sector and chain initiatives. The companies are required to inform itself of the innovations in CO<sub>2</sub>-reducing measures and developments within the sector.

### 5.1 Active participation

The principal behind these initiatives is to trade information with other like-minded companies and to inspire new ways of CO<sub>2</sub> reduction. The requirement was made for companies to attend in workshops and discussion groups. The agenda of the meetings, the presentation and the discussion are the evidence of participation.

### 5.2 Current Initiative

#### **Chair of the NEN working group Guideline for a circular office and learning environment**

In recent years, there has been a great diversity in the approach to circularity and the associated measurement methods. This promotes misunderstanding and provides many parties with extra work, which does not benefit the development of circularity in the sector. In the NEN office and school furniture standards committee attention was drawn to this by chairman Hans Bloemendaal, at that time working for Nowy Styl, and the standards committee has come to the conclusion that clarity from an independent body offers a solution for this. To arrive at clear definitions and measurement methods, NEN is therefore starting to prepare a Dutch Practice Guideline (NPR 8313).

On the 5<sup>th</sup> of September the kick-off of this organization will take place. An information meeting will be organized by NEN on the drafting of a Dutch Practice Guideline (NPR) for definitions and measurement methods of a circular office and learning environment. Interested parties are informed, can join in the discussion and indicate that they want to participate in the working group. The aim is for organizations to be represented in the working group from different angles. From Patrick van Dommelen represents Nowy Styl Nederland B.V. within this group, next to that Nowy Styl Nederland B.V, also financially supports the working group.

#### 5.2.1 Budget

Budget for the initiative. Nowy Styl consists of financially supporting this working group and enabling Patrick van Dommelen to take part in the discussions. The time used for these practices is during working hours.