

Hans Oetiker Holding AG, Horgen, Switzerland

# IDENTIFYING SCOPE 3 EMISSIONS – IN SAP ANALYTICS CLOUD



We set the goal to be CO<sub>2</sub>-neutral in all our business activities by 2035. Our solution to calculate and analyze Scope 3 emissions from outbound transport is an important contribution to understanding our overall CO<sub>2</sub> footprint.

Sonya D'Souza, Head Sustainability, Oetiker Group



## Challenges

- No insights into Scope 3 emissions from outbound shipments
- Large quantity of product deliveries
- Numerous third-party transportation suppliers
- Manual analysis of emissions impractical



## Benefits

- Customized analysis tool for capturing, calculating, and analyzing CO<sub>2</sub> emissions from outbound transport
- Scope 3 emissions can be identified at all production sites
- User-friendly dashboard in SAP Analytics Cloud
- Future-proof, expandable solution design



## Solution

- Customized analysis solution for identifying the CO<sub>2</sub> footprint for outbound transports in SAP Analytics Cloud



## Why NTT DATA Business Solutions?

- Profound SAP S/4HANA experience
- Expertise in SAP solutions for sustainability
- Trust in joint solution development



**Industry:** Automotive

**Products:** Clamps, Rings, Straps and Quick Connectors

**Employees:** Around 2,000 in over 30 countries

**Website:** [www.oetiker.com](http://www.oetiker.com)

NTT DATA Business Solutions



**NTT DATA**  
Trusted Global Innovator

**Developed and implemented in**

**4 Months**

### **On the Path to Carbon Neutrality**

Oetiker Schweiz AG is pursuing a clear strategy to achieve its sustainability goals and the associated reduction of its CO<sub>2</sub> footprint: Through a combination of internal efficiency measures and external projects, the world's leading supplier of high-end fastening solutions for the automotive industry and for high-quality applications in industrial segments aims to become climate-neutral by 2035. To this end, greenhouse gas emissions are determined in three categories according to the international calculation tool "Greenhouse Gas Protocol" (GHG Protocol).

### **Identifying Scope 3 Emissions Effectively**

Regarding Scope 1 emissions, which are emissions from own and controlled sources, Oetiker already has an overview on site level. Since the amount of global sites is limited, data collection, calculation and analysis is done manually with Excel and Power BI – SAP data is not used for this yet. The same procedure is applicable for Scope 2, the determination of emissions from purchased energy. However, Oetiker faced a challenge when it came to the Scope 3 calculation on additional emissions, which also include outbound deliveries:

"We manufacture billions of products every year," explains Sonya D'Souza, Head Sustainability Oetiker Group. "The delivery volume and the number of third-party shipping companies are correspondingly large." So, the SAP S/4HANA ERP system has to provide the information on outbound transport activities – but how? While researching this, the Oetiker team discovered a blog post from NTT DATA Business Solutions.

### **Choosing the Appropriate Development Partner**

This blog initiated the first joint project: In excellent cooperation, an individual solution for capturing, calculating and analyzing the CO<sub>2</sub> footprint was created. The NTT DATA

team developed the overall solution design – and the APIs in S/4HANA to provide the data for SAP Analytics Cloud. The user-friendly dashboard in SAP Analytics Cloud was provided by the Oetiker team.

"The application is based on the reuse of SAP S/4HANA standard building blocks," reports Frank Jacobs, the NTT DATA Solution Architect who designed the overall solution. "For example, the 'Basic Shipping' transportation management embedded in it provides functionality for calculating the quantity of emissions and fuel consumption for an outbound delivery." All master data, customizing and development objects from Basic Shipping can be reused as part of the S/4HANA license. And using the delivery data, Incoterms, weight of goods, shipping point and recipient addresses have all been captured.

### **Customized Analysis Solution for CO<sub>2</sub> Footprint**

This has led to a future-proof solution design that can be expanded to include additional Scope 3 categories. For example, if location changes occur with business partners, these can be created and updated automatically – the transport routes to the respective new location also change accordingly. In addition, the use of an external geocoding service can improve accuracy in this area.

"We implemented the pilot version of the analysis solution for selected customers at our location in Spain," explains Sonya D'Souza. "And with the enhancements, we can extend it to all countries where we operate production and shipping facilities – that is, in the USA, Canada, Spain, Germany, Poland, Lithuania, India and China."

Want to know more?  
Do not hesitate to contact us:

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