



Environmental
Responsibility



GREEN
BOOK



COMPANY

RONA, a.s. is a Slovak company with more than 130 years of tradition that employs approximately 1,200 employees. It focuses on the production and sale of utility and drinking glass.

Company RONA, a.s. has the potential of an ever-growing and developing company with a vision oriented towards the environment as well as the social environment of its employees and, last but not least, its customers. RONA, a.s. is inspected annually by a certification company in the form of external audits, but also customer audits focused on the environment, social policy and product quality. We undergo a SMETA 4-pillar audit every year and belong to the SEDEX group.

RONA, a.s. has issued a Code of Ethics, focused on the quality working environment of its employees, as well as their protection and equality and protection against any abuse.

We are focused on compliance with legislation in various areas of the company's scope, as well as the environment, and we ensure compliance with international quality and environmental standards ISO 9001 and ISO 14001, by which we are certified in the field of production, research, development, refining and sale of utility and drinking glass. Since we are a company with a long tradition, our employees are often residents of the village we are a part of, so we support cultural and social life in the village.

Among the company's main impacts on the environment are energy consumption, production of emissions, generation of waste and wastewater.

Company RONA, a.s. falls under the management of the Slovak Environment Inspectorate and therefore has a valid integrated permit issued. All technological processes with potential impacts on the environment are regularly monitored and controlled by state authorities. In our IPPC, we have set limits that meet the values set by state legislation and mostly even below the values achieved by or directly from the best production processes called BAT.

The use of substances and materials with a potential impact on the environment is minimized throughout the plant. Conventional decorative materials are replaced by water-soluble ecological preparations.

The use of electric forklifts is a standard.

" RONA's production is exported to and available in over 90 countries world wide. "





OBJECTIVES



Reduction of
energy
consumption



Reduction of
greenhouse gas
production



Reduction of
waste and wastewater
generation



Increasing the **environ-**
mental awareness of
employees and suppliers



CRYSTALLINE



LEAD FREE

The special RONA glass composition known as crystalline does not contain lead or any other pollutants or toxins.

This makes it safe for your health.



ENERGY

The main goal of RONA, a.s. in energy consumption, is a constant reduction in energy consumption, mainly natural gas. Therefore, the company decided to modernize the melting units and included in the investment plan to reduce natural gas consumption that by 2030 all Melting Units will melt enamel either fully electrically or at least 50%.

The company also tries to regularly modernize supporting technologies to reduce energy consumption. Since 2019, the lighting has been modernized in exchange for intelligent LED lighting in the production, warehouse and office spaces. Next is the replacement of windows and insulation of buildings. Replacement of energy-intensive equipment such as compressors with the most modern ones with management optimization. Last but not least is the modernization of the heating system.

In 2019, we had the project documentation processed for call no. 46 on Reducing the energy demand in the company RONA, a.s.. This project continued in 2020. The Ministry of Agriculture and Forestry and SIEA approved the project and during 2020 Public Procurement was carried out for 3 parts of the project: Replacement of opening structures, Reconstruction of the heating system, Replacement of lighting.

In 2021, the project was approved by the Ministry of Environment of the Slovak Republic and SIEA, and the implementation of all three parts began.

In 08/2021, we submitted an application for another project - Lighting replacement in office and warehouse spaces. In 2023, the project was approved and its implementation began in 2023.

In October 2021, we requested another project to replace compressors with waste heat recovery to reduce energy consumption and insulate buildings and roofs.

5 compressors 1 x ITS 200 kW and 3 x ITS 250 kW are connected to the heating system. And 1 x ITS 110 kW. We manage to use waste heat from these compressors every year.

Photovoltaics: RONA will also contribute to the reduction of greenhouse gas emissions and the reduction of dependence on the import of electricity, through the use of renewable energy sources, specifically solar energy. In 2024, RONA plans to install a photovoltaic power plant, on selected roofs, for the production of electricity for the company's own consumption. The electrical energy produced will power selected production equipment.

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CO₂ PRODUCTION

As part of reducing CO₂ emissions, we try to use the waste heat from the Melting Aggregates and from the compressors in the largest possible amount. We use this heat to heat water for the heating system and thus reduce natural gas consumption and CO₂ production.

At present, melting aggregates and equipment for glass processing are heated with natural gas. By 2030, the RONA company plans to implement measures that will almost eliminate the burning of natural gas in melting aggregates.

Melting unit no. 1, no. 4 and no. 6 - the entire enamel melting process will be fully electric. In melting aggregates no. 3 and no. 5, 50% electric heating will be used, which will significantly reduce the consumption of natural gas for melting.

Also, in the processes of glass distribution and product cooling, the burning of natural gas will be excluded - the processes will be fully electric, which will create prerequisites for saving 100% of natural gas consumption in the mentioned processes.

By implementing the above-mentioned measures, the company plans to minimize the use of natural gas and thereby significantly reduce the production of CO₂ emissions (by more than 16,000 tons), thereby the company will contribute to saving the environment.



In the processes of glass distribution and product cooling, the burning of natural gas will be excluded.





WATER

The company RONA has its own source of underground water, and at the same time it also uses surface water from a nearby river. The entire company is supplied with underground water, it is used in many production processes. Wastewater is cleaned in several wastewater treatment plants and is reused for production needs.

Part of the production processes has a water circulation system, where only the necessary amount of water is allowed to evaporate or float on the products. The water used to cool the equipment is treated and cooled in the cooling circuits and subsequently cools the necessary equipment again.

The company has an approved Plan of preventive measures to prevent the uncontrollable release of pollutants into the environment and how to proceed in the event of their release.



Wastewater is cleaned in several wastewater treatment plants and is reused for production needs.





WASTE

The company produces common, industrial and hazardous waste. All types of waste are sorted and collected according to the type of waste at the collection point and in the appropriate warehouses.

Common waste is separated into paper, plastics and metals. Waste from the production processes, such as films, plastic tapes and cardboard, is compressed and sold as secondary raw materials.

We prioritize the recovery/recycling of waste before disposal at the landfill. Each waste is marked with the appropriate name and hazardous waste with a hazardous waste identification sheet. Hazardous waste is stored in catch basins to prevent a possible accident.



All types of waste are sorted and collected.





RECYCLING

RONA, a.s. recycles 98% of internal glass shards in the melting process. Shards that are not used within the company are handed over for further recycling in the melting process at an external company.

As part of recycling, RONA, a.s. also recycles other types of waste such as paper, plastic and metal waste. In regards of waste recycling, employees are regularly trained.



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AIR - EMISSIONS

The company produces solid and gaseous pollutants such as NOx, SO2, CO, TZL, HCl, HF, metals, TOC and 1,4-dichlorobenzene, which are properly controlled and regularly monitored. Filter devices are installed for suction and filtering.

RONA, a.s. contributes to the improvement of the environment by installing the most modern technology. A new ceramic filter was installed in 2022 and a new fabric filter in 2023, which meet the strictest limits.

RONA, a.s. also introduced laser cutting machines into the production process, in order to reduce pollution and dust, which saves the environment and improves the working environment of employees.



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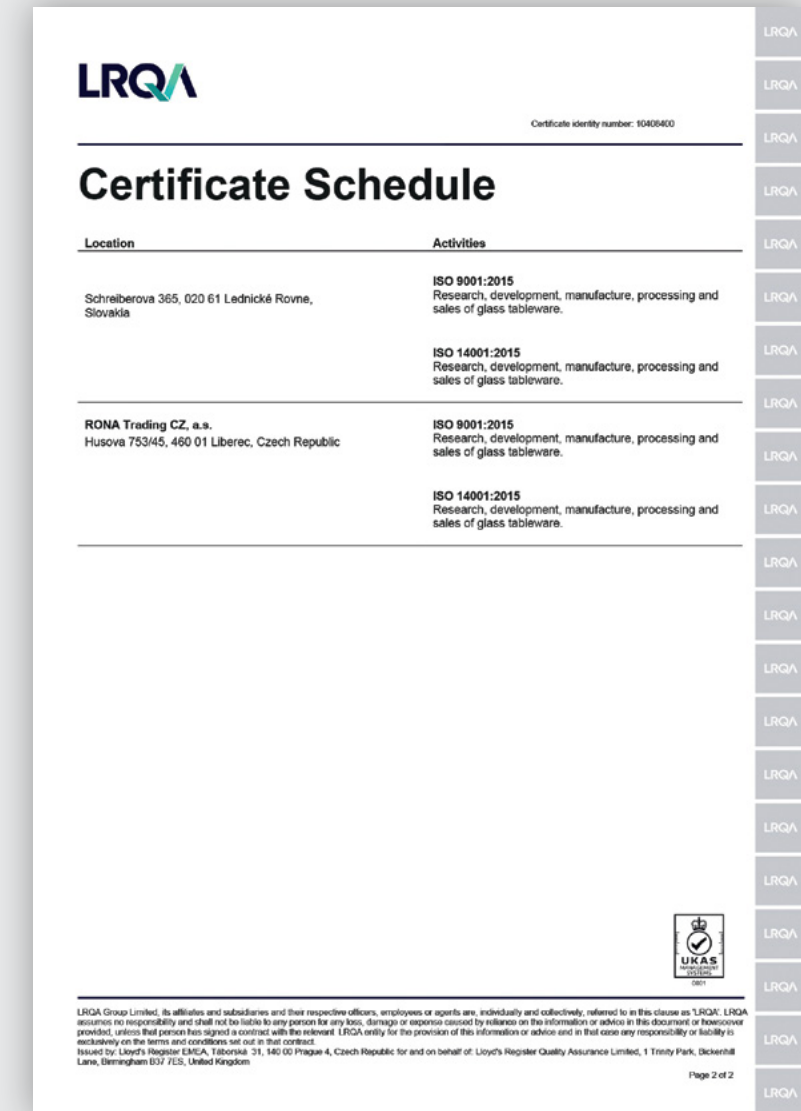




CERTIFICATES

January 1st, 2021: NATUR-PACK CERTIFICATE No. 00827 (obligations for waste processing care and recyclability of products and packaging material used) and also Certificate for environmental responsible producer by Natur-Pack.

REACH declaration: Drinking glasses decorated, undecorated, tableware accessories with material specification: Leadfree crystal glass, Crystalline (February 2023).



www.rona.glass



RONA, a.s.
Schreiberova 365
020 61 Lednické Rovne
Slovak Republic

