



Vinolok Sustainability Report

Company summary – April 2021

ENVIRONMENTALLY RESPONSIBLE COMPANY

Our commitment to sustainability drives all parts of the glass production and delivery.

Vinolok **strictly adheres** to a comprehensive program of **environmentally responsible** business practices and manufacturing procedures that comply with all major EU standards and legislation.

Technologies are regularly submitted for voluntary audit to accredited laboratories and organizations to ensure an adequate compliance levels and to guarantee safe working conditions for our employees worldwide.



ECOLOGICAL AND WORKPLACE STANDARDS



Vinolok complies with:

- Quality management system ISO 9001
- Food safety management system ISO 22000
- Environmental management system ISO 14001





RESPONSIBLE SOURCING LOCAL SOURCES

- ▶ Vinolok glass closure **is made from the best raw materials** mainly from **local sources**,
- ▶ at the same time production takes place in northern Bohemia,
- ▶ **mining of glass sand, glass melting** and **pressing** takes place **locally within 40 km** from the company headquarters,
- ▶ **company is responsible** while **sourcing** all needed material for the overall production.





RESPONSIBLE SOURCING WATER CONSERVATION



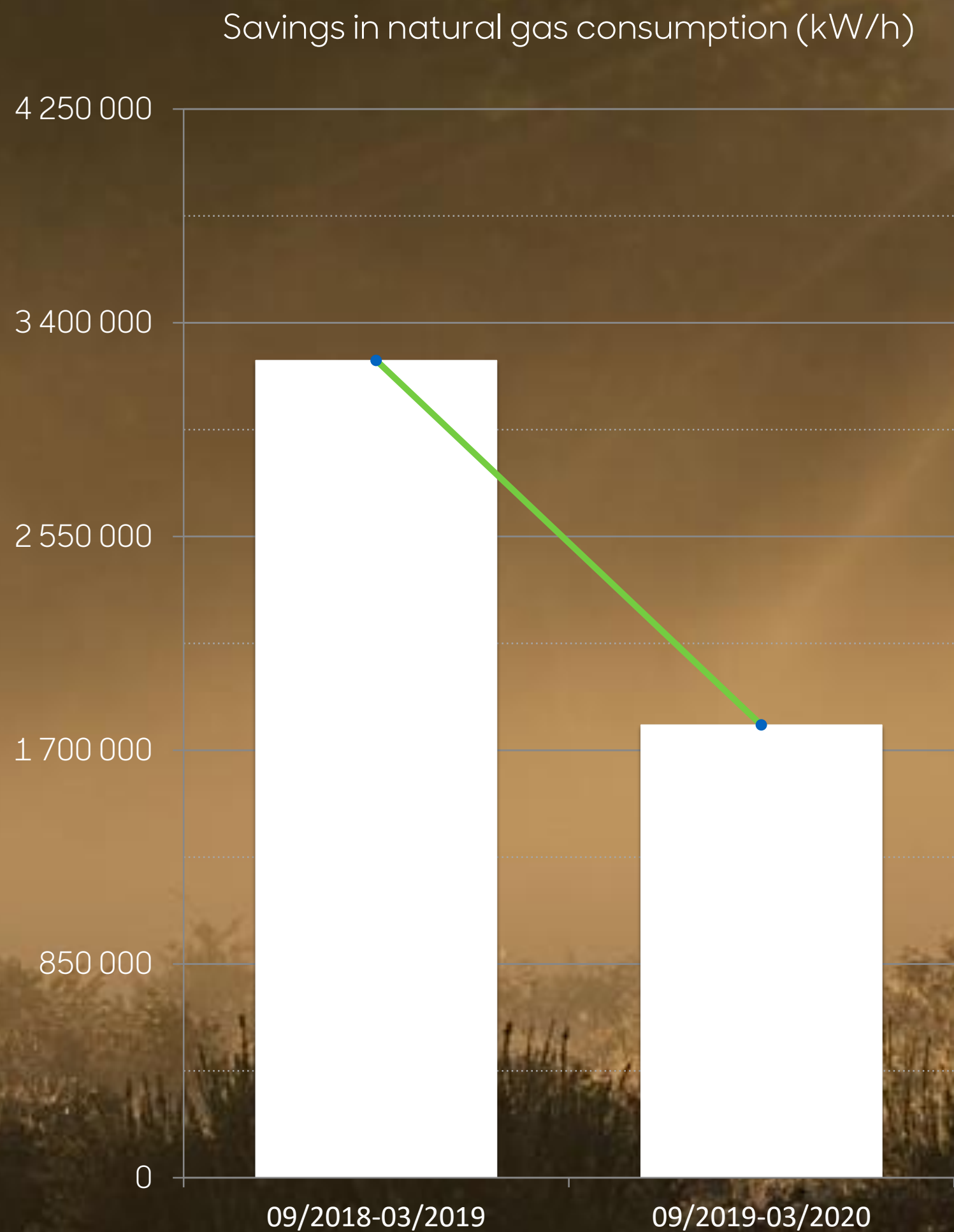
- ▶ Vinolok **adheres to strict emission limits** of **pollutants** set for water discharged into sewage systems,
- ▶ we have a **closed loop of cooling water** which **has reduced** water **consumption** in our glass melting process to minimum.

RESPONSIBLE SOURCING INTERNAL RECYCLING

- ▶ **99% of glass cullet** from the Vinolok production is used again **for production** of the closures,
- ▶ **glass recycling** has a **direct impact on climate change**,
- ▶ the use of **recycled glass reduces emissions** (carbon dioxide) and **saves energy**,
- ▶ recycled glass melts at a lower temperature than virgin materials,
- ▶ use of **recycled glass** instead of virgin materials **helps conserve natural resources**.



RESPONSIBLE SOURCING ENERGY SAVINGS



- ▶ Vinolok always strives to save energy throughout in the whole production process,
- ▶ after **decentralisation of the heating system** in our HQ and production plant, we **reduced** the incoming energy **consumption** (kW/h) **to 38 %** during the first heating season compared to the same period of the previous year.



ECOLOGICAL PRODUCTION NANO WASHER

Nano washer with nanotechnology for washing printing inks was installed instead of the existing washer with distillation equipment,

- ▶ VOC (volatile organic compound) emissions into the air **have been reduced** by 15%,
- ▶ the **consumption** of washing **solvents** has been reduced by **23%**,
- ▶ at the same time this has led to a reduction in hazardous waste from filters from the distillation equipment,
- ▶ The reduction occurred even though the number of **printing lines** has **increased from 3 to 4**.



ECOLOGICAL PRODUCTION GLASS MELTING

Vinolok uses the most efficient electric glass melting,

- ▶ this method **does not burden** the immediate surroundings of the production plant **with fumes**, as there is a very little direct emission of combustion products and dust.



WASTE MANAGAMENT RECYCLING

From factories to offices, Vinolok company seeks to reduce waste through the following initiatives:

- ▶ production **(glass) waste is recycled** to become a new, usable material,
- ▶ recycling bins are placed in each production plant, office and common area,
- ▶ waste from the employee **canteens** is transported to a **biogas plant** for **energy production**,
- ▶ **drinking tap water** is available in all manufacturing plants and office buildings, as well as Soda Streams and water barrels to **reduce the number disposable plastic bottles**,
- ▶ only at the production site, we save **8760 bottles/year**.



PACKAGING AND SHIPPING

The **cardboard box** in which closures are supplied is made of **recycled material (68%)** and is suitable for **further recycling** after use. The surface is made of primary fibre to ensure the **hygiene of the packaging**.

68%

80%

The **trays** that hold the closures in place during transport are made of **PET three-layer foil**. The inner layer, which represents **80%** of the total blister thickness, is made of already **recycled PET** material. Both **outer layers** are made of virgin PET material and thus meet the **hygienic specifications or the material coming into contact with food**. The entire tray is completely recyclable.

100%

The **pallets** used to transport with Vinolok closures are **100% reusable**.



PACKAGING AND SHIPPING



New design of Vinolok cardboard boxes reduced the consumption of used material by 19% compared to the existing box

- ▶ The **new design** is the result of process that strives for cost savings and material consumption,
- ▶ developed together with SmurfitKappa,

-19%



PACKAGING AND SHIPPING



The efficient design of the trays allows them to be stacked tightly on top of each other and wrapped into a sturdy package

- ▶ **smaller** quantities can be thrown in the **recycle bin for plastic**,
- ▶ **larger quantities** can be **provided directly to a PET recycling company**,
- ▶ Vinolok **is ready to help** customers **find the nearest** PET recycling company.

PACKAGING AND SHIPPING



The new stretch wrap is used for the final packaging of pallets

- ▶ New stretch **MimaLite** wrap,
- ▶ has the same material composition as the previous one,
- ▶ **lower weight** (34% of previous wrap),
- ▶ **smaller volume.**

34%



Fully
recyclable
closure



FULLY RECYCLABLE THE GLASS BODY

- ▶ **glass** is the **main part** of the Vinolok closure,
- ▶ **can be melted repeatedly** and transformed into new Vinolok closures or other glass products,
- ▶ **glass** is a substance made **from natural materials** and it is one of the few materials that is **fully recyclable without loss of quality**. Glass is an **archetype of sustainable packaging** and as such is usually the first choice for consumers who are environmentally conscious

A pair of hands is shown from the wrist down, palms up, holding a large quantity of small, clear, ring-shaped sealing rings. The rings are piled together in the center of the hands. The background is dark and out of focus.

FULLY RECYCLABLE THE SEALING RING

- ▶ it is made of EVA (Ethylene Vinyl Acetate Copolymer) manufactured by DOW,
- ▶ it is not silicone resin and it is **PVC , phthalates and bisphenol A free**,
- ▶ it **complies** with **European regulations** for materials intended to come into contact with food and beverages,
- ▶ it **is not glued to the closure**, you can remove it by hand and **recycle** in the same way as low density polyethylene (used in juice and milk cartons).



For the love of nature

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