

**Business:**

<b>Business name:</b> Cerámica Nulense, SAU (STN)	<b>NIF:</b> A-12016101
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**STN** manufactures and markets ceramic floor and wall tiles. As a responsible organization that is constantly evolving, we are aware of the need to adopt in new technological processes, in new product ranges and in service, the respect and protection that the environment deserves; That is why we express our commitment to the Environment by carrying out guidelines focused on fulfilling our objective.

**Environmental improvement measures undertaken by the company:**

**ENERGY SAVING**

- Implementation throughout the organization of LED technology as a lighting system.
- The installation of high-efficiency gas burners with low emission generation in the cooking process.
- Use of natural gas as fuel during the manufacturing process, this being the option with the least impact in terms of emissions into the atmosphere.
- Implementation of an energy cogeneration system using natural gas considered a basic pillar as a source of sustainability. This cogeneration plant, in addition to producing energy, produces heat that is later used in our clay atomization plant.
- Reuse of the heat generated by the for the drying process of the pieces.

Consumption Production	2020	2021	% Savings
<b>Electrical energy consumed Gw/h</b>	69,4	76,3	
Consumption Kw/h(electric)/m <sup>2</sup>	2,12	2,04	<b>-3,7%</b>
<b>Gas energy consumed Mw/h</b>	541	595	
Consumption Kw(gas)/m <sup>2</sup>	1,57	1,51	<b>-3,6%</b>
<b>m<sup>2</sup> produced</b>	32.798.702	37.436.652	
Saving of Primary Energy electrical cogeneration.	23,37%	22,33%	<b>-22,85% average</b>
Primary energy saving heat recovery furnaces	11,2%	11,0%	<b>-11,1% average</b>

**Table. A** detail consumption and energy saving data

**34% reduction in primary energy consumed.** (Primary energy savings from electrical cogeneration plus primary energy savings from recovery of combustion heat from production furnaces).

## WATERS

**STN** has set up different purification and water use systems so that our goal of achieving **zero discharge** is a reality.

The water and sludge resulting from the product process are reintroduced into our system. **Being 100% of wastewater** reused in the clay atomization and grinding section.

**The percentage of recycled water that is incorporated into our product is greater than 75%.**

Average weight kg /m2	Water requirement l/m2	Reused water l/m2	Incorporation of recycled water into the product
21,3	0,4	0,3	<b>75%</b>

## EMISSIONS TO THE ATMOSPHERE

The reduction in energy consumption provides us with other benefits, such as the reduction of CO2 emissions associated with the cooking process, a fact that favors STN's commitment to the Kyoto protocol.

**STN** Raw materials (clay) are supplied from mines near our facilities, so that we minimize the emission of particles into the air during their management and transport.

In the same way, the surface of our facilities is completely paved, so that we contribute to reducing the emission of dust into the environment by resuspension of dust into the atmosphere generated by vehicle traffic.

Emissions (MT)	2020	2021	Reduction
Carbon Dioxide CO <sub>2</sub>	162.689	181.398	<b>-2.3%</b>
Carbon monoxide (CO)	102	108	<b>-6.9%</b>
Nitrogen oxides (NOx/NO <sub>2</sub> )	204	172	<b>-26.3%</b>
Total suspended particles (TSP)	28	21	<b>-33.5</b>

**Table. B.**emissions to the atmosphere (E-PRTR)

## WASTE

Minimum percentage of recycled materials in our products according to internal data (pre-consumer):

- Raw rejection (5%)
- Wastewater and sludge (75%)
- Atomized powder (2.5%)

The rest of the waste that cannot be reused internally is managed, in accordance with current legislation, by authorized waste managers, our company selecting those managers who prioritize the recovery and recycling of waste over elimination or deposit in landfills.

**The waste generated using our products is 100% recyclable**(post-consumer), as well as the remains of ceramic product.

## CONTAINERS AND PACKAGING

For the manufacture of our cardboard containers, 100% recycled cardboard is used (pre-consumer) **100% recyclable cardboard is used for the packaging of our products. (post-consumer)**

Packaging waste can be reintroduced in circular economy processes for reuse if end users deposit it in the waste collection circuits of their community.

The company is a member of ECOEMBES Spain, preparing the Business Plans for the Prevention and Minimization of Packaging.

## conclusion

Our environmental objective is to collaborate in the development of buildings based on criteria of sustainability and efficiency, which is why our products collaborate with this certification, feeling committed to the **Social Welfare and Quality of Life.**

We work to continuously improve and contribute to the awareness of an optimal environmental commitment for all, making respect and dedication to improving the planet a fact associated with a **Sustainable development.**



Signed D. David Rosell Mingarro  
Quality, Environment & Safety manager  
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