

16.02.2023

# SUSTAINABILITY DATA

sarbak

**ÖZGE DELİ**  
EMS CHIEF

**TUĞHAN ÖZÇAMSIRTI**  
FACTORY MANAGER

## ENERGY

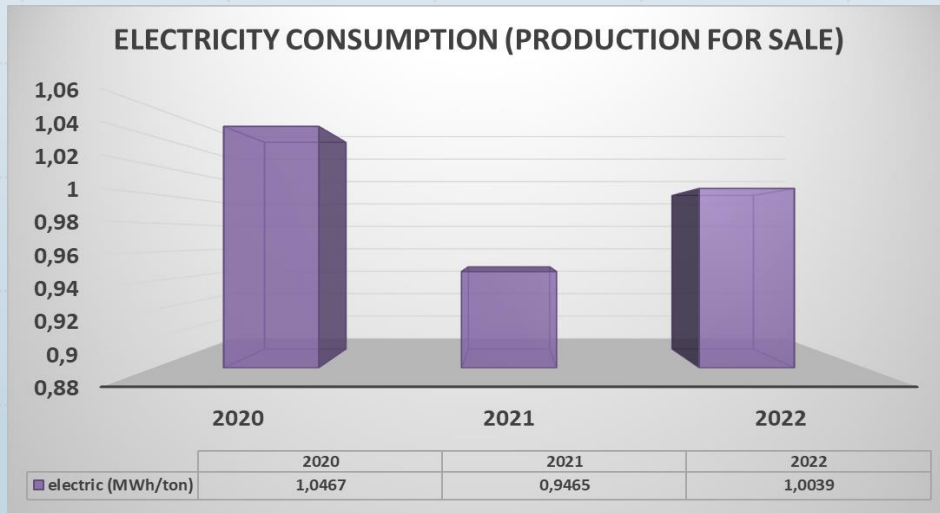
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The manufacture of semi-finished brass products is very energy-intensive. Electric power is mainly used for the inductive melting furnace in the foundry. Natural gas is mainly used for the heating mould, power of stress relieving annealing furnace and chips drying machine. We always work for reduce the energy level. By appropriate process control and the best-possible planning of the production processes, taking into account energy-saving aspects as well as the optimization of energy-intensive consumer loads, the consumption should be continuously reduced.

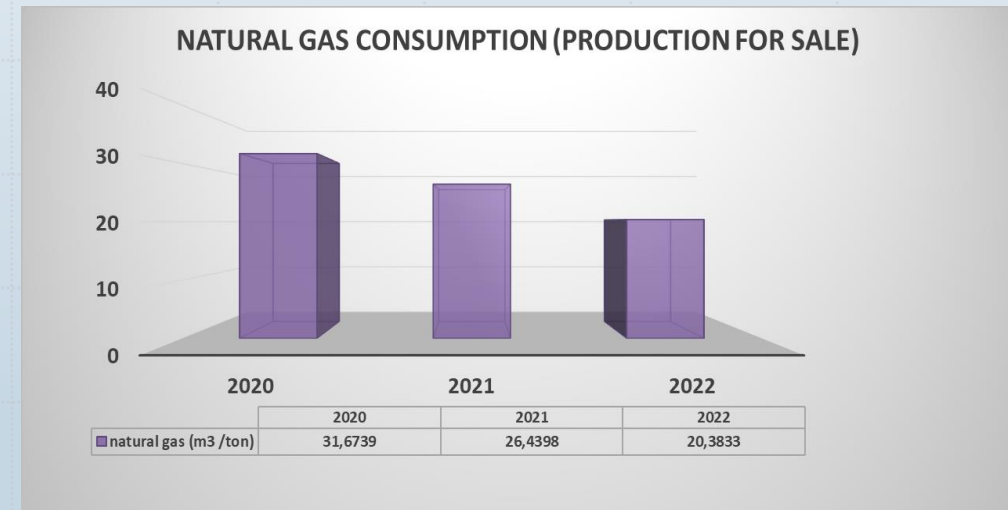
Heat is supplied by a natural gas fired hot water boiler system.

We follow our energy consumption data for many years and registration this data.

### 2020-2022 ELECTRIC AND NATURAL GAS CONSUMPTION DATA



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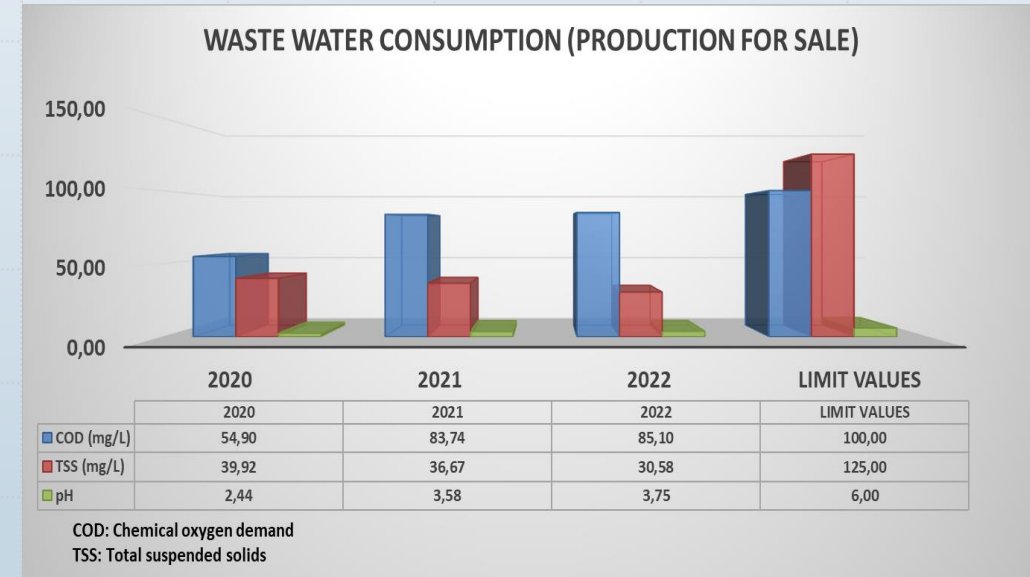
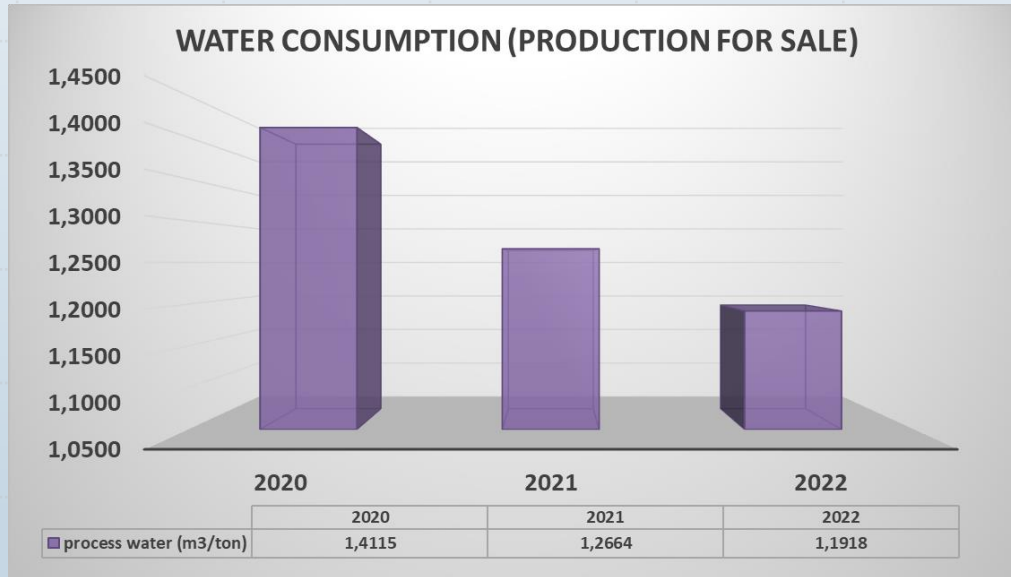
## WATER

16.02.2023

Process water is supplied from Industrial Free Zone' s underground water source. Our drinking water were obtained by purification underground water until the beginning of 2011. We purchase the drinking water from supplier since 2011.

Our wastewater discharge permit obtained from the Ministry of Environment until 2010 with the purified wastewater treatment facility and was given to the receiving environment. Our wastewater source was joined to the Çerkezköy Industrial Zone's treatment plant.

### 2020-2022 WATER CONSUMPTION DATA



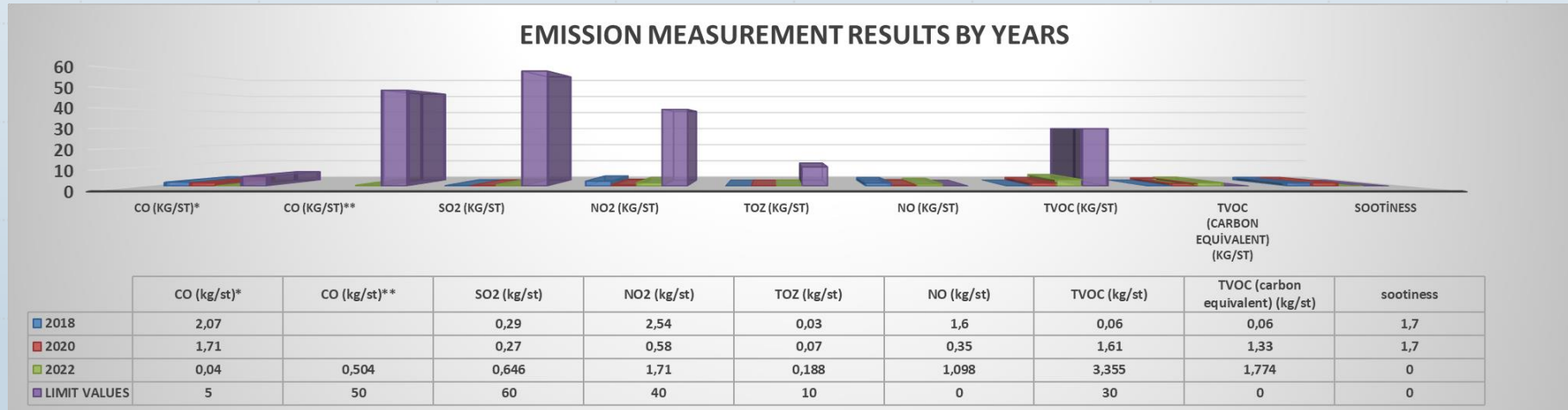
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## ENVIRONMENTAL DATA

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	2018	2020	2022	LIMIT VALUES
CO (kg/st)*	2,07	1,71	0,04	5
CO (kg/st)**			0,504	50
SO <sub>2</sub> (kg/st)	0,29	0,27	0,646	60
NO <sub>2</sub> (kg/st)	2,54	0,58	1,71	40
TOZ (kg/st)	0,03	0,07	0,188	10
NO (kg/st)	1,6	0,35	1,098	-
TVOC (kg/st)	0,06	1,61	3,355	30
TVOC (carbon equivalent) (kg/st)	0,06	1,33	1,774	-
sootiness	1,7	1,7	0	-
*: for combustion plants				
**: for other facilities				

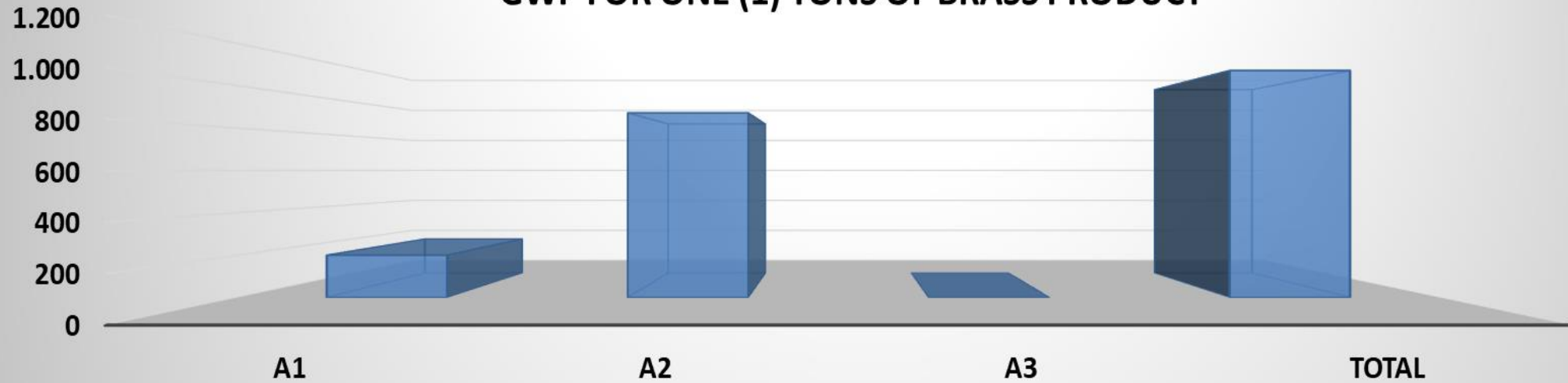


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**GLOBAL WARMING POTENTIAL FOR BRASS PRODUCT**

	A1	A2	A3	TOTAL
<b>GWP-GHG (kg CO<sub>2</sub> eq)</b>	200	871	0,142	1.071

**GWP FOR ONE (1) TONS OF BRASS PRODUCT**

	A1	A2	A3	TOTAL
<b>GWP-GHG (kg CO<sub>2</sub> eq)</b>	200	871	0,142	1.071

KIP: KÜRESEL ISINMA POTANSİYELİ  
GWP: GLOBAL WARMING POTENTIAL  
GHG: GREENHOUSE GASES

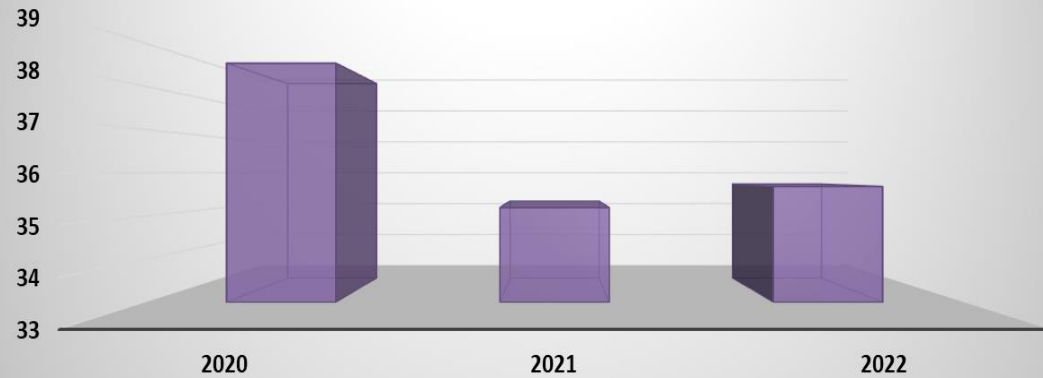
A1: RAW MATERIAL SUPPLY (HAMMADDE TEDARİĞİ), A2: TRANSPORTATION (LOJİSTİK), A3: MANUFACTURING (ÜRETİM)  
eq: equivalent (eşdeğer)

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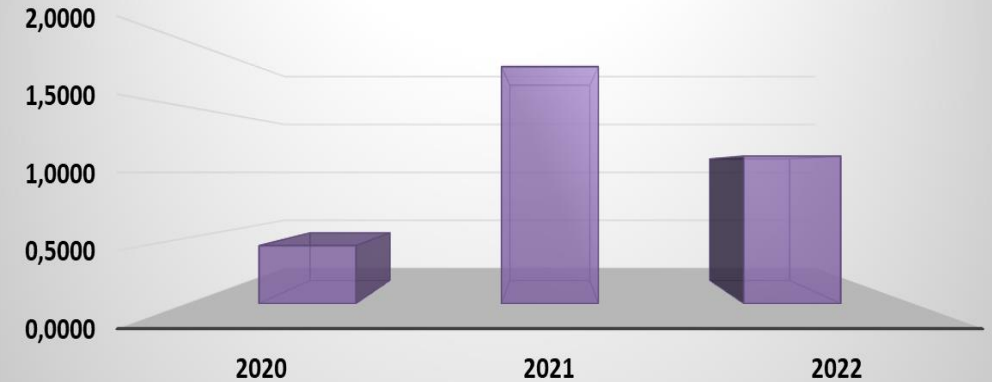
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**HAZARD WASTE / NON-HAZARD WASTE DATA**

	2020	2021	2022
hazard waste (ton)	1.678	1.814	1.599
Non-hazard waste (ton)	19	93	49
hazard waste / production (ton/ton)	38,532	35,194	35,681
Non-hazard waste / production (kg/ton)	0,4419	1,8046	1,1240

**HAZARDOUS WASTE ACCORDING TO PRODUCTION FOR SALE**

	2020	2021	2022
hazard waste / production (ton/ton)	38,5318	35,1935	35,6805

**NON-HAZARD WASTE ACCORDING TO PRODUCTION FOR SALE**

	2020	2021	2022
Non-hazard waste / production (kg/ton)	0,4419	1,8046	1,1240

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