

# erateks

## Carbon Footprint Report 2021



Erateks design, develop, manufacture and export garment since 1992

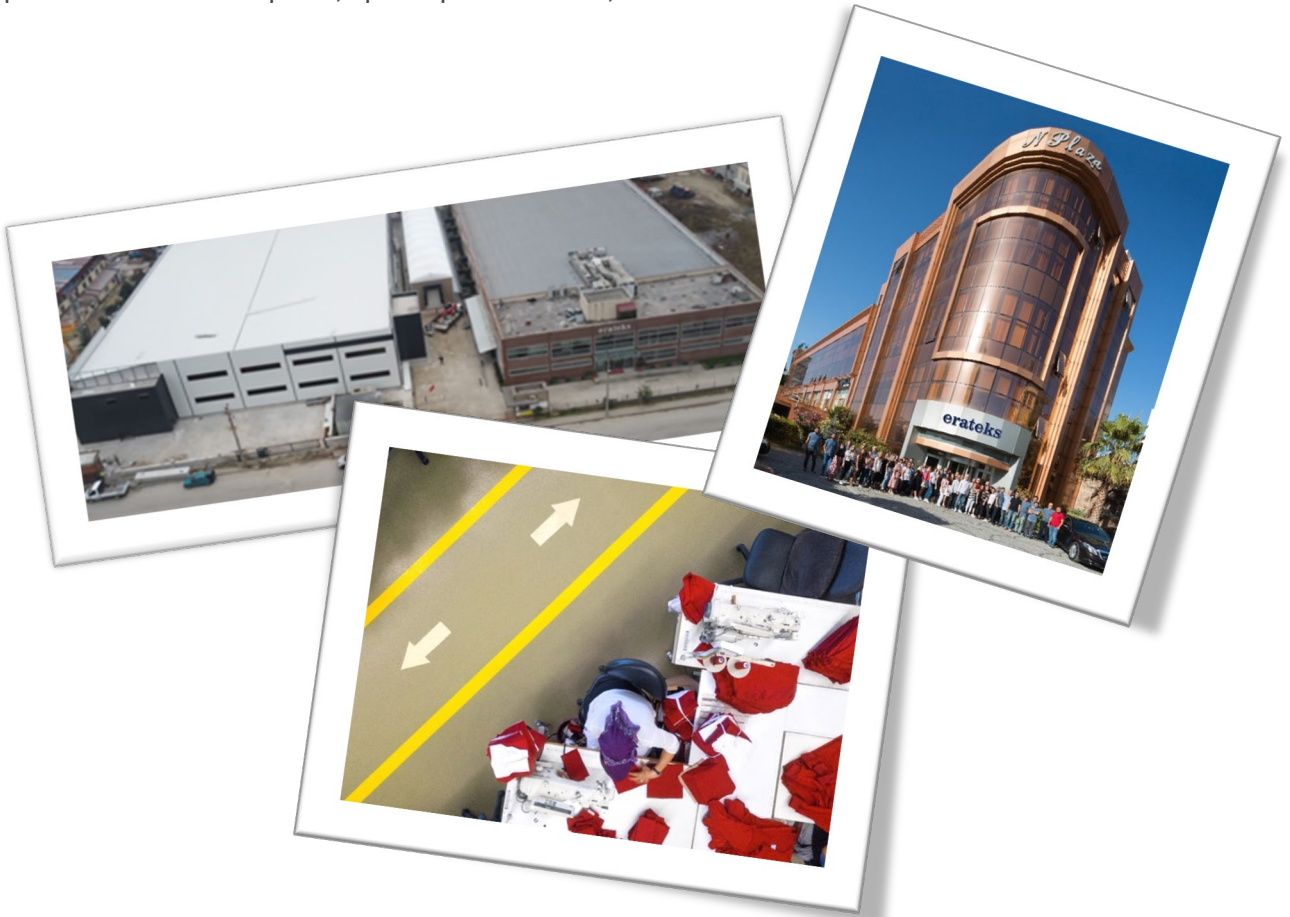
## A. COMPANY INFO

Erateks design, develop, manufacture and export garment, since 1992.

The main strength of Erateks is an experienced and engineering team which develop material and product, in collaboration with customers and other relevant suppliers.

Erateks headquartered in Esenyurt / Istanbul, based on a 3100 m<sup>2</sup> net area which includes operation of design, sampling, development, cutting, embroidering, and printing.

Erateks main production facility is based on a 9886 m<sup>2</sup> net area in an Industrial Park at Fatsa/ Ordu (North-East part of Turkey). This facility has 11 different production lines which are oriented and specialized on team sports, sports performance, and casual wear.



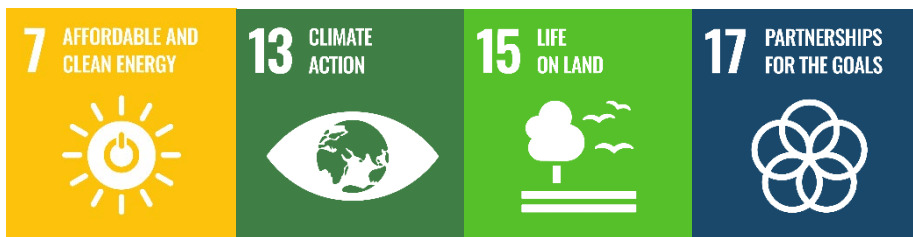
## UN Sustainable Development Goals and Sustainable Developments at Erateks

According to UN, Sustainability is a simple concept. In 1987, the UN Brundtland Commission defined sustainable development as “meeting the needs of the present without compromising the ability of future generations to meet their own needs.”

The universal definition of sustainability is in consideration and in activity of Erateks. Sustainability Assessments on Labor, Health & Safety and Environmental performance; over the years the company conducted internally and hosted number of sustainability assessments in facilities by several brands, buyers and MSIs. The sustainability assessments raise the awareness and helps to improve the capacity.

Erateks is committed to the UN Sustainable Development Goals and certified by internationally valid certifications, including ISO-14001. Therefore, Erateks measures all footprints, including carbon footprint to minimize negative impact.

This carbon footprint report link to the SDGs 7, 13, 15 and 17.



## B. SCOPE, DATA and METHODOLOGY

The carbon footprint evaluation in this report includes direct greenhouse gas emissions and indirect greenhouse gas emissions caused by energy consumption of Erateks activities. Direct emissions related to transport process, natural gas consumption and air conditioner gases. Indirect emissions related to energy consumption and transportation of staffs.

Carbon footprint report was prepared in accordance with TS EN ISO 14064-1 standard and GHG emission inventory. The calculation methodology and tools were stated in Chapter C. All the data which used for calculation were based on internal consumption reports during the 2018. The data was recorded on monthly basis for two different facility. HQ of Erateks located in Istanbul and main production facility located in Fatsa/Ordu.

The results provide the amount of all greenhouse gas emissions according to the GHG Protocol. Therefore, the amount of the carbon footprint is given in kilogram/tons CO<sub>2</sub> equivalents (CO<sub>2</sub>e)

### Sera Gazı Hesaplama Metodolojisi

Takep edilen standart:	TS EN ISO 14064-1 (Eski no: TS ISO 14064-1): Sera gazları - Bölüm 1: Sera gazı emisyonlarının ve uzaklaştırmalarının kuruluş seviyesinde hesaplanmasına ve rapor edilmesine dair kılavuz ve özellikler.
Tahsisler:	Veri tahsisi yapılmamıştır.
Birimler:	"kg" veya "kWh" olarak işleme alınmaktadır. Bu sebeple farklı birimlerde toplanan tüketim miktarları EK - 2'de verilen DEFRA'nın yoğunluk katsayıları kullanılarak hesaplanmaktadır.
Biyokütle yanması kaynaklı karbon emisyonu:	Yok
Metodoloji Prosedürü:	Firma Sera Gazı Emisyon Belirlenmesi ve Değerlendirilmesi Prosedüründe sunulmaktadır.
Sera Gazı Emisyonu Azaltım Çalışmaları (Güdümlü Faaliyetler)	Sera gazı emisyonları için firma bünyesinde azaltım çalışması yapılmadığı için raporda bahsedilmemiştir.
Hesap Metodu:	Tier 1
Hesap Formülü:	Sera Gazı Emisyon Miktarı (CO <sub>2</sub> e) = (Tüketim Miktarı) x (Emisyon Faktörü)
GWP Değerleri:	IPCC 5th Assessment Report
Raporlama Metodu:	TS EN ISO 14064-1 standarttaki 7.3 Sera gazı raporunun içeriği maddesinde gerekliliklere uygun biçimde raporlanmıştır.

#### Soğutucu Gaz Sızıntı/Kaçak Oranları

Tip	Kaçak Oranı	Referans
Klima	%1	IPCC (2006), Vol 3, Chapter 7, Tablo 7.8
Chiller / Soğutma Sistemleri	%2	IPCC (2006), Vol 3, Chapter 7, Tablo 7.8
Su Sebilleri	%0,1	IPCC (2006), Vol 3, Chapter 7, Tablo 7.8
Yangın Söndürme Tüpleri	%4	IPCC/TEAP Special Report: Safeguarding the Ozone Layer and the Global Climate System, Volume 9, Fire Protection

#### Emisyon Faktörleri

Sabit Yanma	IPCC 2006 Vol 2, Chapter 2 Tablo 2.3	$EF \text{ (kWh olarak)} = \frac{\text{Yakıtın default içeriği } \frac{kg}{Tj} \text{ olarak}}{277777,78 \text{ kWh/Tj}}$ $EF \text{ (kg olarak)}$ $= \frac{(\text{Yakıtın Default } EF \frac{kg}{Tj} \text{ olarak}) \times (NCV \frac{Tj}{Gg} \text{ olarak})}{1000000 \text{ kg/Gg}}$
Mobil Yanma - OnRoad	IPCC 2006 Vol 2, Chapter 3, Tablo 3.2.1 ve 3.2.2	
Mobil Yanma - OffRoad	IPCC 2006 Vol 2, Chapter 3, Tablo 3.3.1	
Mobil Yanma - Deniz	IPCC (2006), Vol 2, Chapter 3, Tablo 3.5.2 ve Tablo 3.5.3	
CO <sub>2</sub> Eşdeğeri	$CO_2e = (CO_2 \times GWP(CO_2)) + (CH_4 \times GWP(CH_4)) + (N_2O \times GWP(N_2O))$	
Elektrik için EF		Firma
Soğutucu Gaz	DEFRA, 2017	
Net Kalorifik Değer (NCV)	IPCC 2006 Vol 2, Chapter 1 Tablo 1.2	

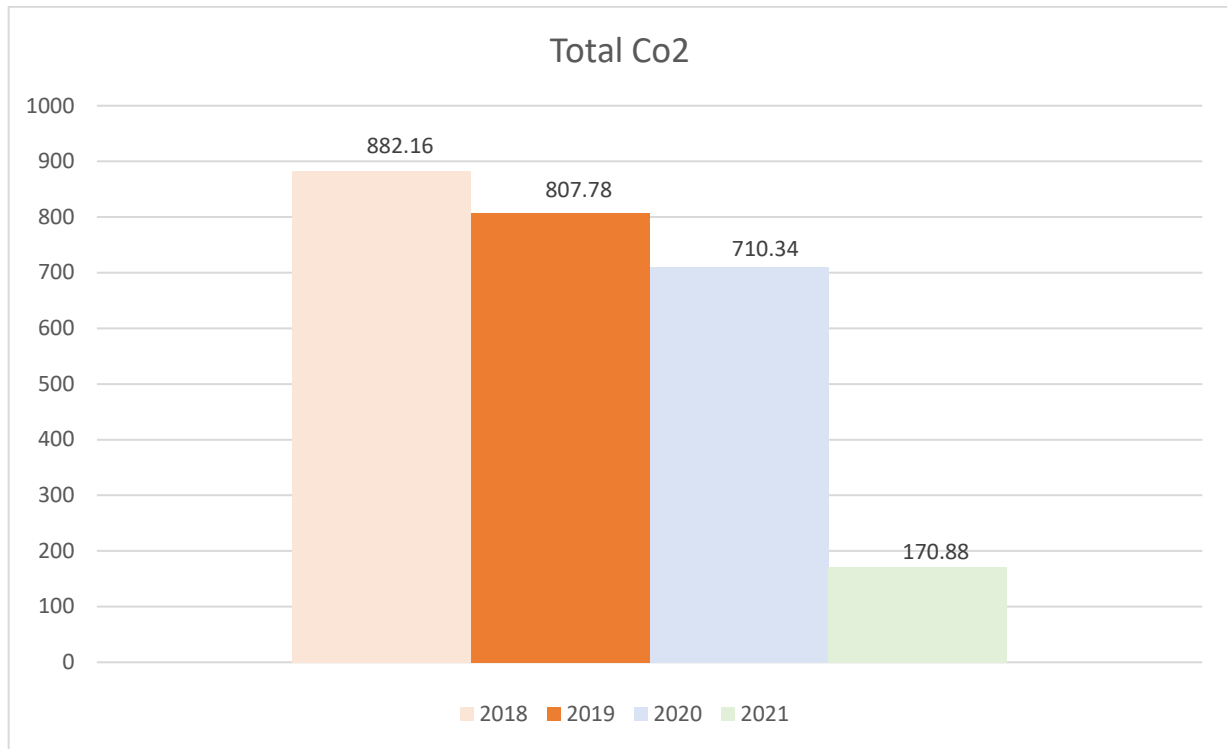
### C. CARBON FOOTPRINT ANALYSIS

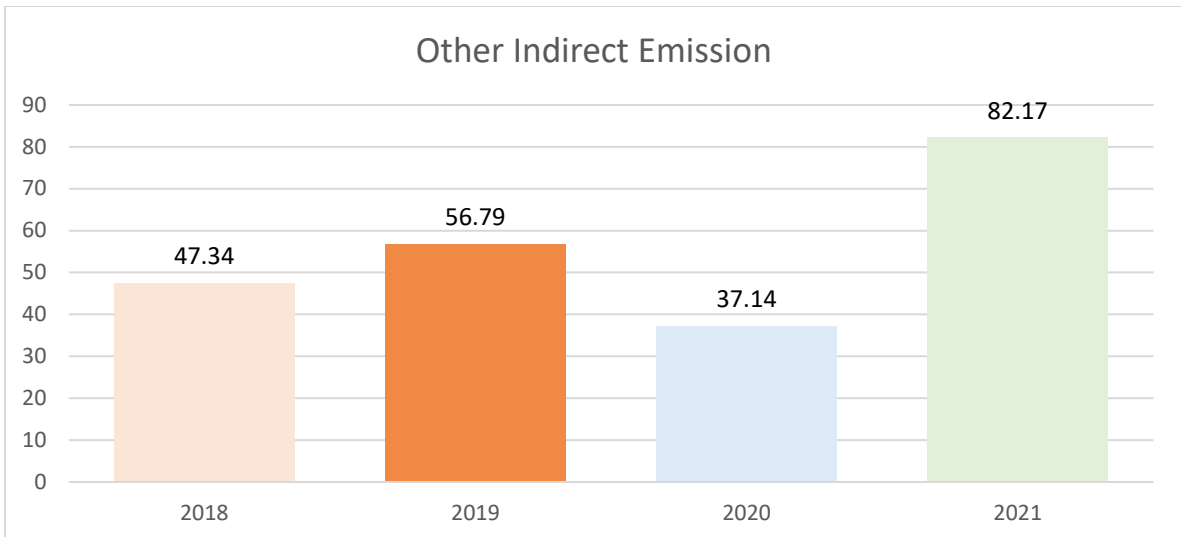
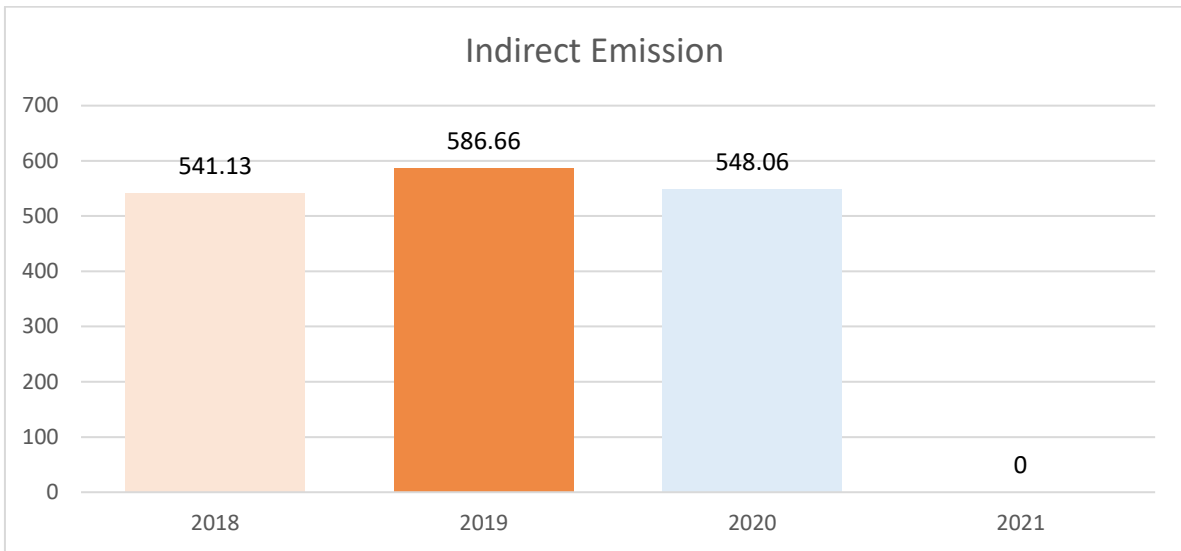
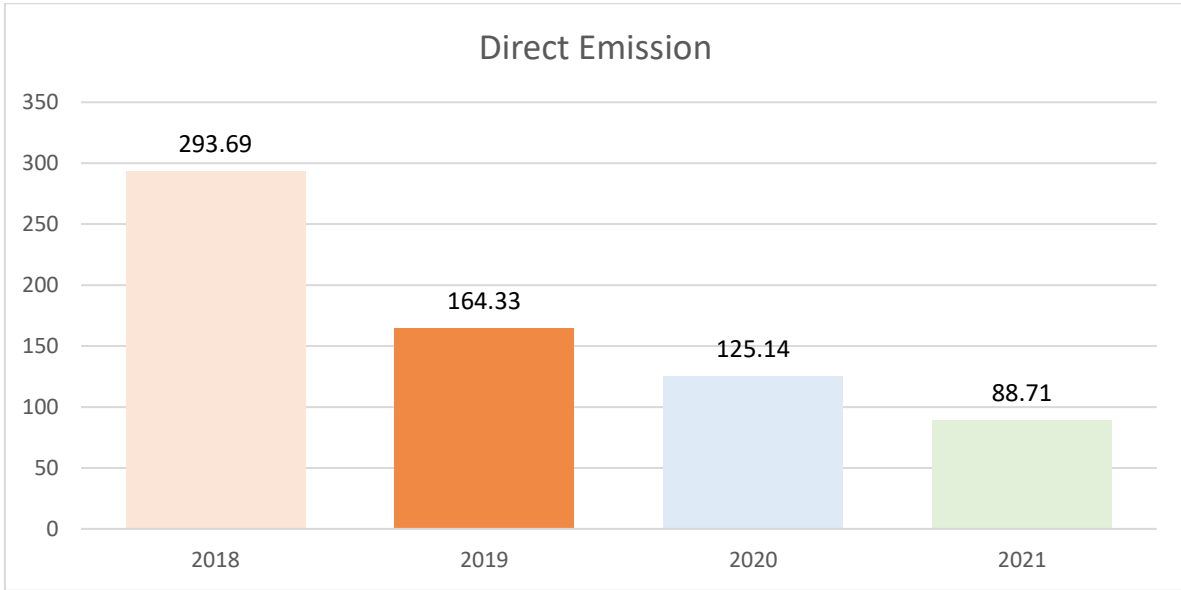
We have a improvement targets to the continuous improvement in yearly period. We set the target for each operation in our process, we will reduce carbon release by %10 as against to previous year. We follow up consumptions for to reduce wastage in production and management operations.

In 2021, we reached and passed Carbon Footprint Reduce target, we reduced our carbon release at the rate of % 76 when we compared to the year 2020. The biggest reason for this is that we reset the electricity consumption, which is our indirect consumption, with the use of renewable energy.

With our IREC certificate in 2021, all of our electricity consumption was provided from renewable energy sources. Regular maintenance and renewals have been made in the air conditioners which is in other indirect emissions, and the usage conditions have been kept to the standard.

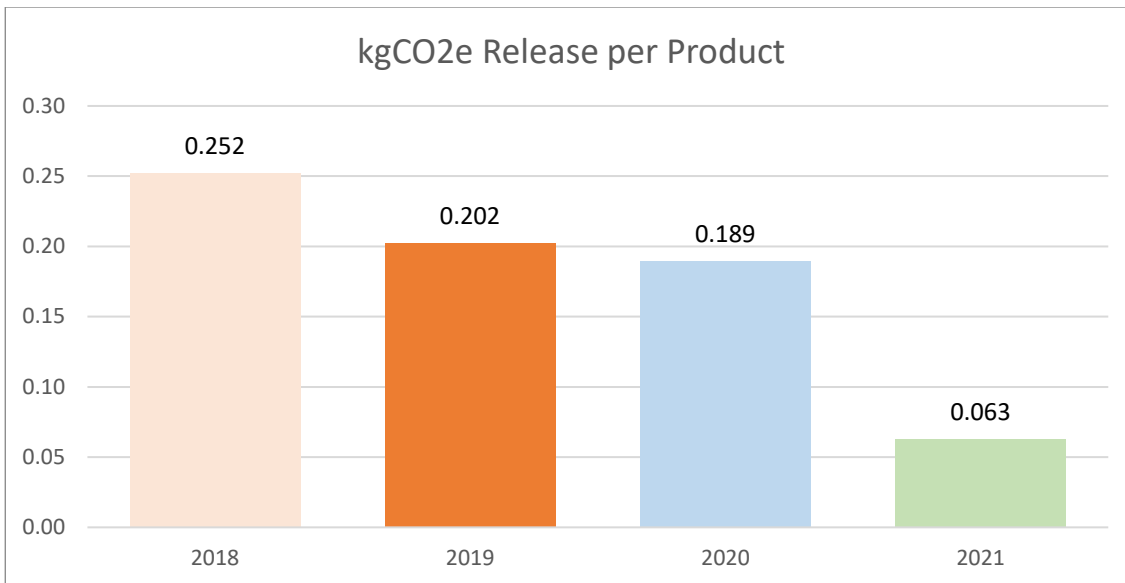
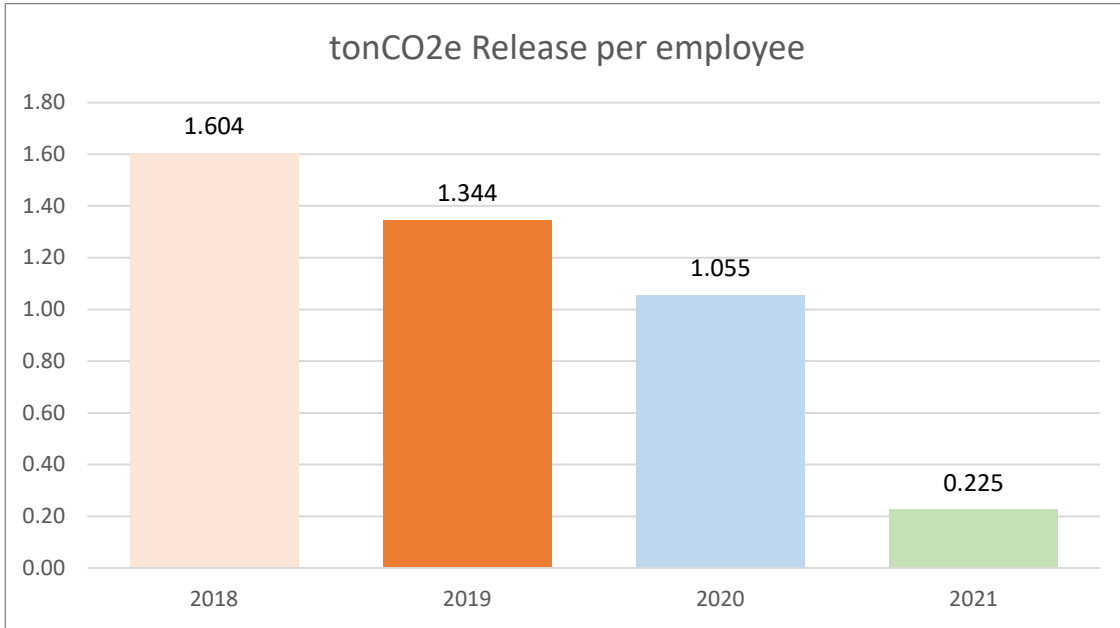
By organizing our company vehicles more efficiently, savings were achieved in terms of kilometers and times.

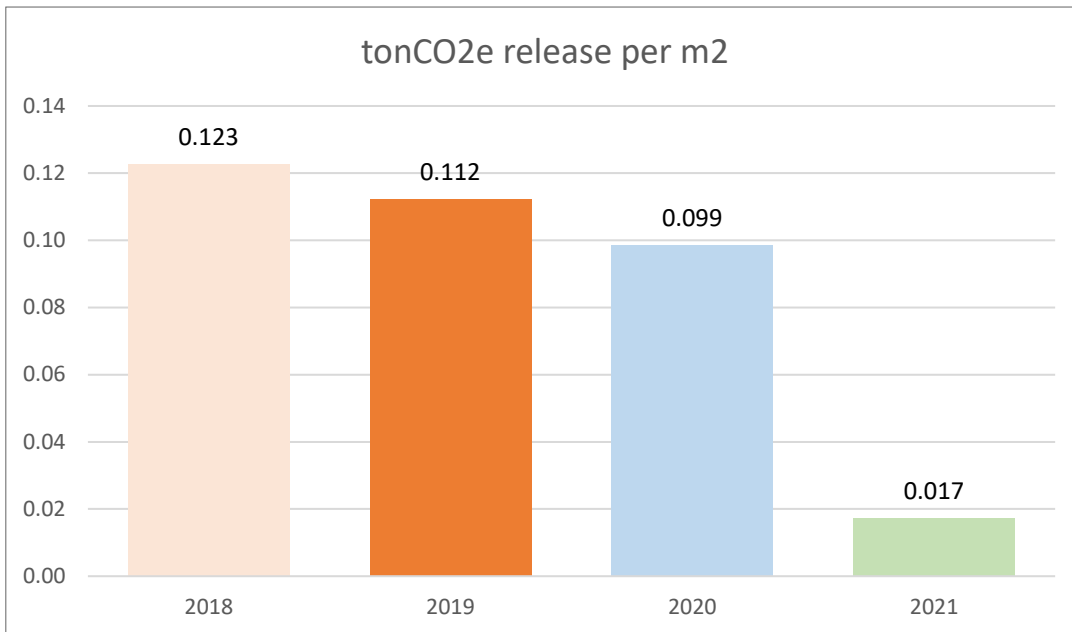
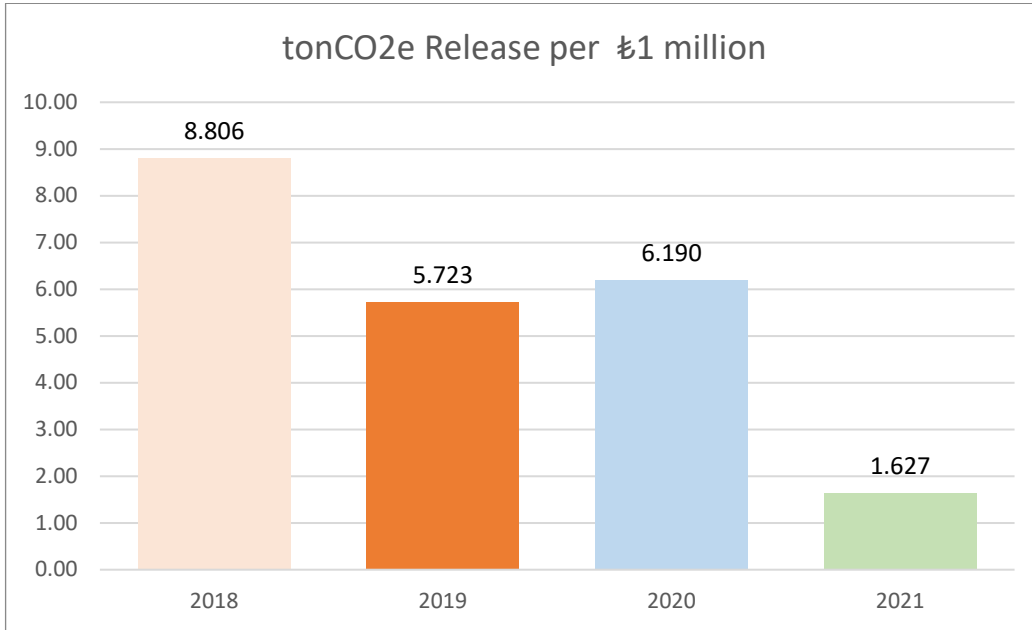




Production quantities, productivities and working times were reduced all around the world. As a result, it affected our production capacities.

During this pandemic, we recognize that we could organise our operations on online meetings instead of internal onsite audits. Airline travels replaced with the online meetings.





We focused on improve productivity to use energy more effective. We reduced rework quantities and spare times in production, by this way we reduced energy wastages in production.

Thanks to our team members for all their supports and efforts to save our planet.



