

SUSTAINABILITY REPORT

AKMERKEZ 2020

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WWF Earth Hour

As part of WWF's Earth Hour project, we turn off our outdoor lights every year on March 28th. We try to create public opinion in order to prevent the climate crisis and natural losses by sharing the relevant banners on our social media accounts.





Sustainable Agriculture on Akmerkez Rooftop

In order show that a healthy life and sustainable urban farming without using chemicals is possible at the city center, we initiated 'Terasta Tarım' project in approximately 750m2 of space for urban farming on the rooftop of our food-court in 2017. We aimed to;

- Enrich the soil, promote biodiversity
- Reduce our carbon footprint;
- Save water through rainwater storage systems and hydroponic farming
- Manage waste with compost,
- Raise awareness on environment, the sustainability of food and agriculture

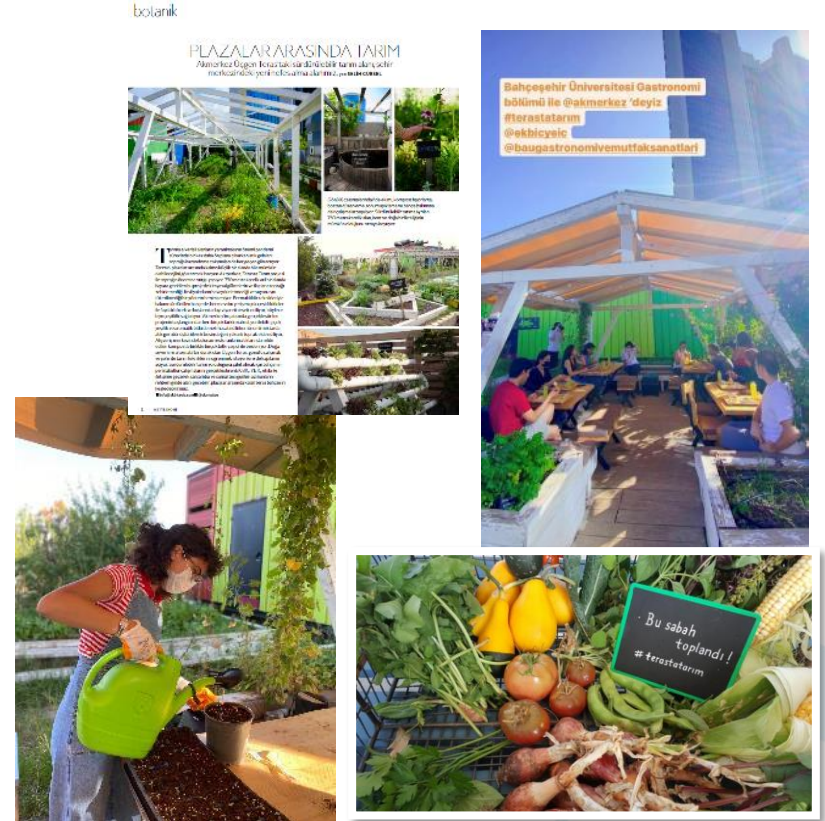
On August to October 2020, we organized several events and projects to spread these values:

Started 'Volunteer Program' that people work and experienced urban farming in our garden with permaculture specialists.

Hosted influencers, famous people and media channels to create WoM and share.

Organize talks with the initiatives and food & agriculture communities

Collaborate with universities and Gastronomy students to teach them sustainable farming





Givin Store

Givin Store, which was opened on the 8th of March 2019, on the International Women's Day, became the first donation store established in a shopping center in the world, where all purchases turn into donations, to support education, children and animals.

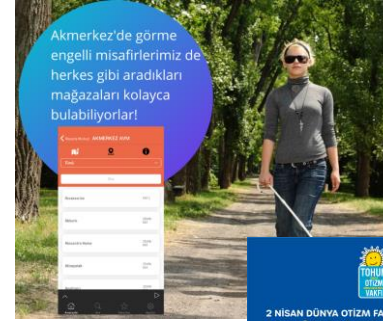
- In the opening of Givin Store, the items of 15 strong women from fashion, media and entertainment industries were put on sale and the income turned into donations for girls who could not continue their education due to financial problems.
- On 11th of April, the store hosted 23 influencers who have more than 1 million followers in total. They took part in a workshop and helped to spread awareness about the store.
- On April 25, children's products from various brands were turned into donations for children who could not continue their education due to their financial troubles.
- In May, a special event was organised where 4 contributors had a coffee with the famous actor Kadir Doğulu.
- All these donations collected from the contributors who took part in these activities were donated to NGOs which were in collaboration with Givin and had transparent financial structures.
- Around 1.300 young people and children, 9,836 stray dogs were aided in total, until 2020.
- Akmerkez got 8 distinguished awards from international organizations such as Marcom, Stevie and ICSC Solal,





Other Sustainability Projects

- In 25th January, we allocated a free stand area for the promotion of the SDG4Kids's educational board game "The Future of the World" based on UN Sustainable Development Goals.
- We offer navigation services to our visually impaired guests at Akmerkez with the "My Travel Buddy" add on in the Turkcell's "My Dream Companion" application.
- On February we organized a special screening of "Etilerin Savaşı" with TOG, and also on Valentine's Day located a photo shooting area in which the income was donated to the education of children.
- Every year on Autism Awareness Day, we turn our exterior lights to blue and share a post on social media.
- At the Mother&Child Meeting Center, we organize activities for disadvantaged children with down syndrome, autism through the month. An also provide playing space at this center for free.








Zero Waste Management (ZWM)

Akmerkez carries out the waste process in accordance with zero waste management regulations. Waste classification and separation actions are carried out source based with a classification of "paper", "plastic", "metal", "glass", "battery and electronic waste" and delivered to authorized recycling companies.

Waste Management Outputs and Achieved Environmental Benefits via ZWM - 2020

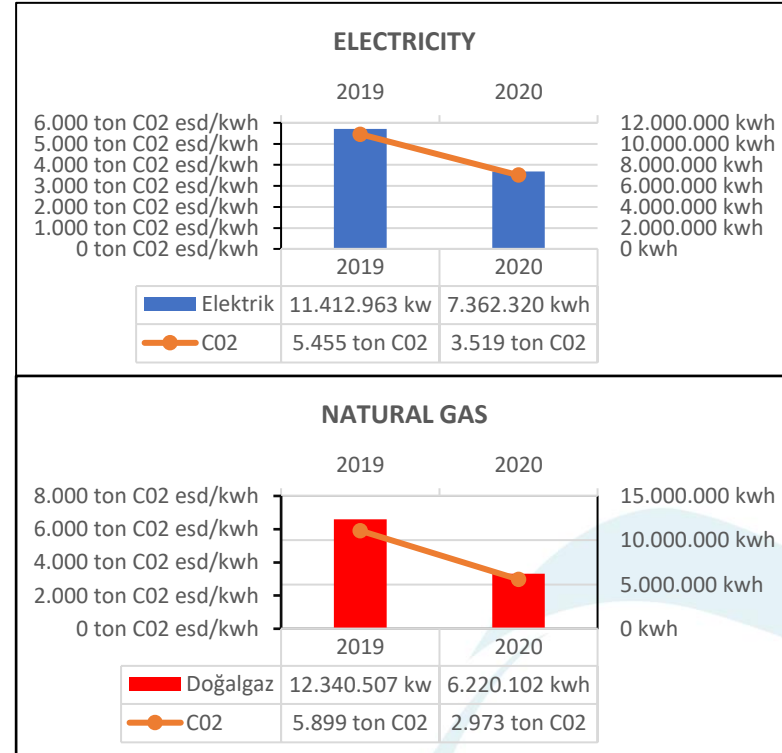
 40 ton Kağıt	 14 ton Plastik	 40 ton Cam	 4 ton Metal	 0 ton Organik Atık	 2 ton Bitkisel Atık Yağ
 680,1496 adet Ağaç	 37.542,16 lt Petrol	 48,04272 ton Ham madde	 4,842239 ton Ham madde	 0,1 ton Kompost	 1.637 lt Biyodizel
 10.591,4466 kg Sera Gaz Salınımı	 1.330,5264 m3 Su Tasarrufu	 228,037298 m3 Depolama Alanı	 286.379,2268 kWh Enerji Tasarrufu		

A brief summary of actions and activities carried out regarding sustainability and UNDP sustainability development goals met through these activities are as follows:



Energy Consumption

- Akmerkez provides electricity and natural gas from third party companies in order to run its facility operations
- Akmerkez facility consumes electricity for cooling and air conditioning, lighting, vertical circulation equipments, cleaning and security operations. And natural gas for heating and warm water.
- Akmerkez causes no green gas emission regarding his own facility operation
- Depending on the energy policy, we run the whole facility in an energy efficient way and also achieve to keep the carbondioxide emission as low as possible
- Energy Consumption figures and C02 emissions of the last 2 years of Akmerkez can be found in the graphics on the right





- Inline with the energy policy of Akmerkez; our aim is to run the whole Akmerkez facility in the most energy efficient way, without disrupting the operational flow and to keep the carbondioxide emission as low as possible. In order to achieve this goal; some actions which are already taken and those which will be continuously followed can be found below

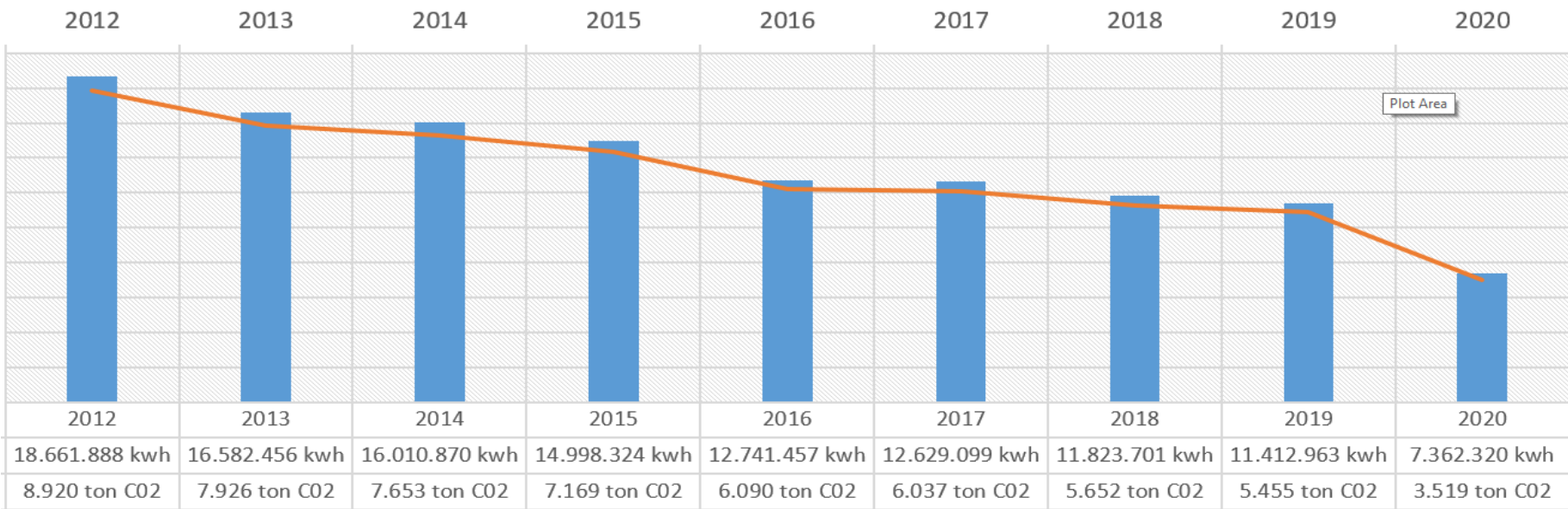
Energy Efficiency

- Inverter installations for Air Conditioning Unit motors
- By-pass system installed between heating boiler
- Renewal of old cooling units with energy efficient ones
- Renewal of old cooling towers with energy efficient ones
- Free-cooling adjustments for the cooling units
- BMS system revisions
- Replacement of inefficient lighting units with LED units
- Installation of energy monitoring system
- Energy Monitoring and Reporting



- With the help of the actions mentioned in the previous slide; the total energy consumption has been reduced almost 39% in the last 8 years, which helped us to achieve to reduce the CO2 emission; from 8920 ton CO2 esd/kwh in 2012, to 5455 ton CO2 esd/kwh in 2019. And to 3519 ton CO2 esd/kwh in 2020

Energy Efficiency



■ Consumption — CO2 Emission

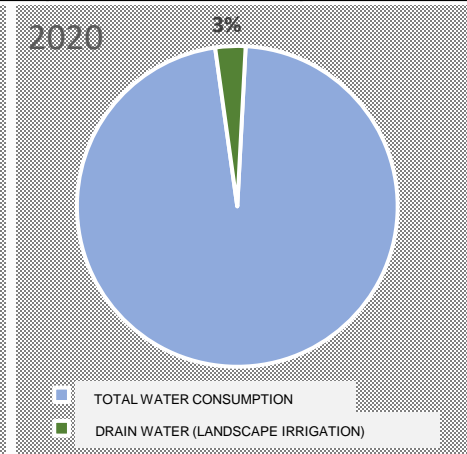
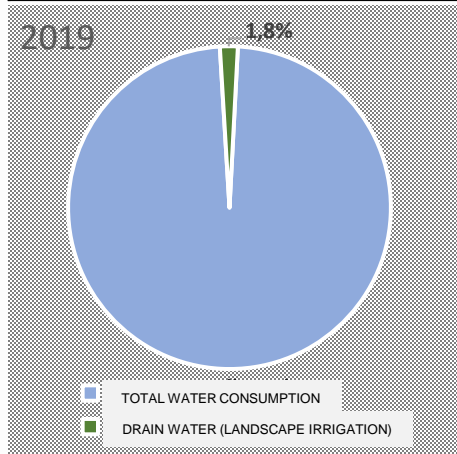


- Inline with the water policy of Akmerkez; our aim is to run the whole Akmerkez facility in the most energy efficient way regarding water consumption as well

Water Consumption

- Depending on the energy policy of Akmerkez, we run the whole facility in an energy efficient regarding water consumption as well and search for water saving alternatives
- Water demand of Akmerkez is provided by municipal water network
- With the help of the rainwater piping system installed, we regain and store rainwater and use it for landscape irrigation As an alternative source as shown with the graphics at the right

	2019	2020
TOTAL WATER CONSUMPTION	97.255 m ³	65.903 m ³
DRAIN WATER (LANDSCAPE IRRIGATION)	1769 m ³	2067 m ³
PERCENTAGE	1,8%	3,1%





- Inline with the energy policy of Akmerkez; our aim is to run the whole Akmerkez facility in the most energy efficient way, regarding electricity consumption as well and to work on consumption saving alternatives

Renewable Energy

- Depending on the energy policy of Akmerkez; in order to reduce energy costs and to reduce CO2 emissions, we made researches to use alternative renewable energy resources. One of the alternative was a solar system installation on the skylights
- The feasibility studies were carried out by various solar energy companies
- Due to lower regional solar potential of Marmara and shadow effect of the office and residence towers of the complex, the feasibility has shown us that efficiency of the system will be low. The total solar production can only supply %1-2 of the total electricity demand of the facility
- As well as the system lifetime is almost 25 years, ROI time is 5-7 years
- Depending on these feasibility outputs, the investment decision has been postponed for an uncertain time

