



# IZENERGY



## IZMİR METROPOLITAN MUNICIPALITY

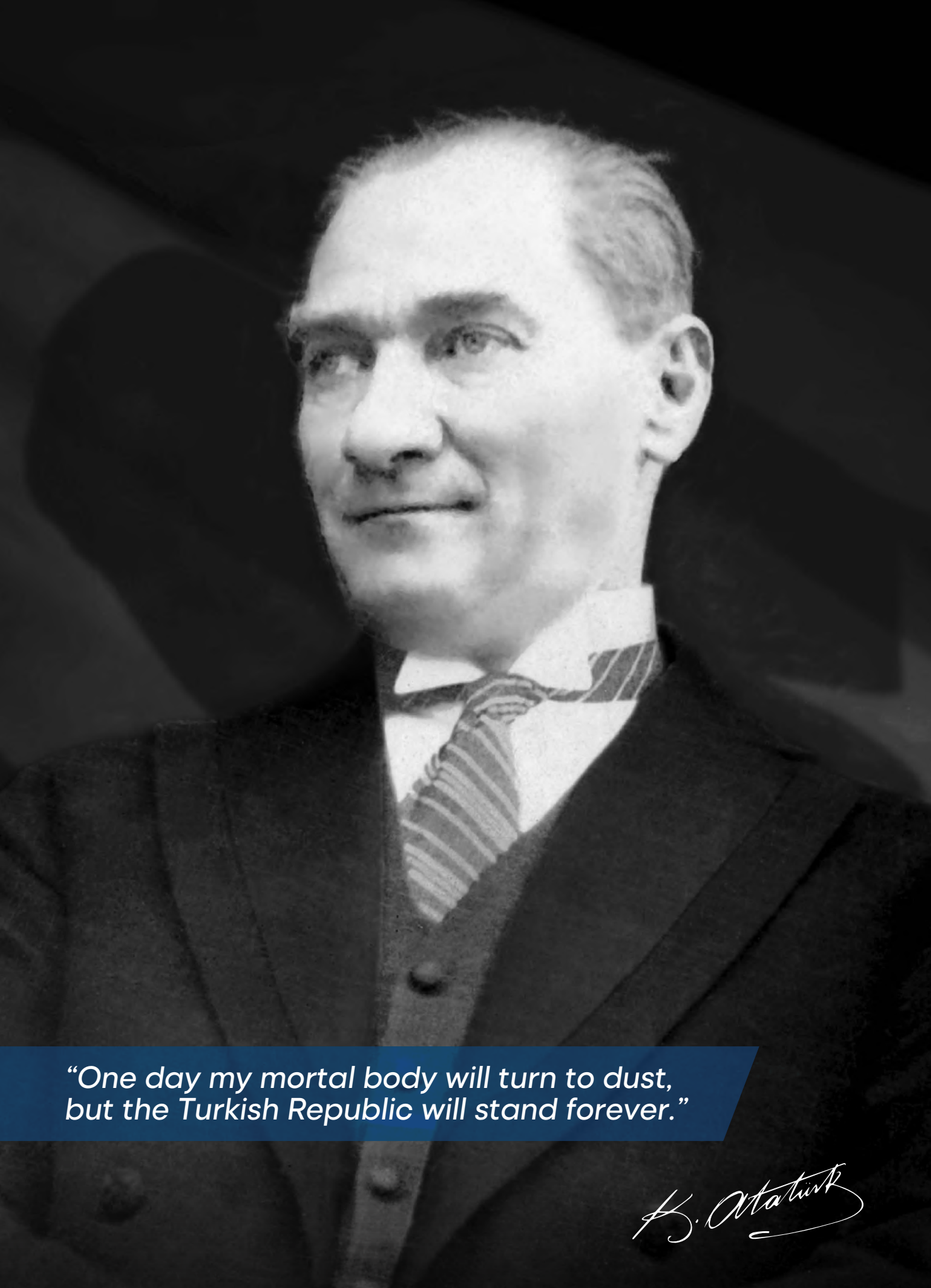
IZMİR METROPOLITAN MUNICIPALITY - IZENERGY INC. PUBLICATION ● OCTOBER-NOVEMBER 2022 ● Issue : 8 ● Free of charge



**On Climate Change and Local Solutions**  
Prof. Dr. Kamil Okyay SINDIR - CHP Izmir MP

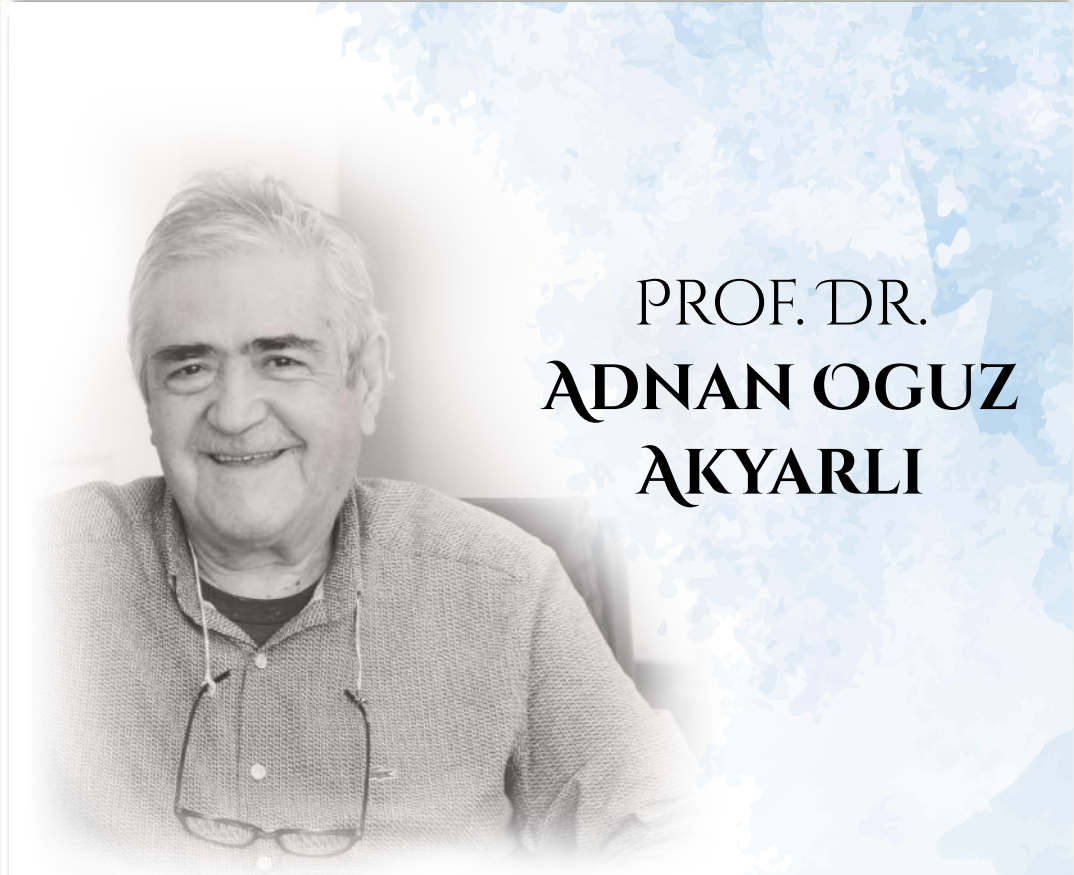
**Solar Wall Against the Climate Crisis: Solarwall**  
Birol MANCUHAN - Chairman of the Board of SolarWall Türkiye Economist - Business Manager

**"EVeP16" That Makes a Difference in Türkiye**  
Levent YAZICI - Bursa Provincial Governorship Energy Management Unit Energy Manager



*“One day my mortal body will turn to dust,  
but the Turkish Republic will stand forever.”*

*K. Atatürk*



PROF. DR.  
**ADNAN OGUZ  
AKYARLI**

*We are all managers of our own lives. The decisions we make in the process that starts with the moment of birth and ends with the moment of death, and the actions that put these decisions into practice, constitute our individual lives, which I define as an "unrehearsed play" in which we play the leading role.*

*Our task is to show high performance both as managers and as actors, and to leave behind memories and artifacts that will allow us to be remembered with good feelings and thoughts.*

*The greatest support in achieving this goal will be provided by decision-making processes that take their source from science, reason and wisdom, crowned by virtues and the freedom of thought.*

**Editor-in-Chief**  
Ali Ercan TURKOGLU

**Publication Editor**  
Acelya POLAT

**Communication and Registrar**  
Zuhal DIZDAR

**Registry and Control**  
Altan TURKUSAY  
Erol TOMAS  
Sefika Cagla GUNDOGAN

**News Officer**  
Altan TURKUSAY  
Cem KANDEMİR

**Graphic Design and  
Implementation**  
Busra GORMUS

**Visual Collection**  
Murat INCEOGLU

**Type of Publication**

Periodicals - E-Magazine

**Language of Publication**

English

**Period of Publication**

October - November 2022

**Website**

www.izenerji.com.tr

**Copyright**

All kinds of copyrights of all articles, news, photographs, maps, illustrations and other subjects published in Izenerji Inc. Publication belong to Izenerji- Human Resources Cleaning Maintenance Repair Enerji Security Services Pharmaceuticals And Tourism Industry And Trade Joint Stock Compan. It cannot be quoted without permission. Responsibility for the articles written belongs to the authors.

# TABLE OF CONTENTS

**6** OUR FRIENDS FROM IZMİR

**7** ENGINEER MSC. A. ERCAN TURKOGLU  
Chairman of the Board of Directors  
of IZENERGY Inc.

**8** HAKAN AKYILDIZ  
IZENERGY Inc. Assistant General Manager

**8** IZENERGY AT EXPOTECH FAIR

**9** ISO 14001, ISO 50001 MANAGEMENT  
SYSTEM AND ZERO WASTE CERTIFICATIONS  
HAVE BEEN RECEIVED  
IZENERGY IN TRANCITY

**9** CLEANING CAMPAIGN BY  
PRESIDENT SOYER

**10** PROF. DR. KAMIL OKYAY SINDİR  
Republican People's Party  
Izmir MP  
ON CLIMATE CHANGE AND  
LOCAL SOLUTIONS

**12** IMM IZMİR SUSTAINABLE ENERGY AND  
CLIMATE ACTION PLAN

**16** IMM IZMİR GREEN CITY ACTION PLAN

**20** IMM IZMİR'S STRATEGY FOR LIVING IN  
HARMONY WITH NATURE

**22** PROF. DR. ADNAN AKYARLI  
Chairman of the Board of Directors  
of IZELMAN Inc.

**23** NEWS FROM IZENERGY

**24** BIROL MANCUHAN  
SolarWall Türkiye  
rd of Directors  
Economist-Business Manager  
SOLAR WALL AGAINST CLIMATE CRISIS:  
SOLARWALL

**26** LEVENT YAZICI  
Governorship of Bursa  
Energy Management Unit Energy Manager  
"EVeP16" MAKING A DIFFERENCE IN TÜRKİYE

**28** IZMİR WILL BE A PLASTIC  
WASTE-FREE CITY BY 2030  
IZDONUSUM PACKAGING WASTE COLLECTION  
AND SORTING FACILITY WAS LAUNCHED

**29** 91ST IIF AND TERRA MADRE ANATOLIA  
WAS FULL OF JOY  
"IZMIRLI" BRAND FROM PASTURE  
AND FIELD TO EXPORT

**30** HISTORIC CELEBRATION ON THE 100TH  
ANNIVERSARY OF THE LIBERATION OF IZMİR

**32** UCLG GIVES IZMİR INTERNATIONAL AWARD  
FOR "CRISIS MUNICIPALISM"  
IZMİR RECEIVES THE 2022 EUROPE PRIZE

**33** NEWS FROM IMM

**34** NEWS FROM IZENERGY

**35** VISIT TO BURSA GOVERNORSHIP  
ENERGY MANAGEMENT UNIT

A CAREER DEVELOPMENT STORY:  
PRICELESS LESSONS OF EXPERIENCE  
AND KNOWLEDGE

**36** TRADE AND PURCHASING DIRECTORATE  
IZENERGY INC. FIELD EMPLOYEES

**38** IZENERGY INC. HEADQUARTERS  
EMPLOYEES


THE OWNER:




ACELYA POLAT

IN CHARGE:

ZUHAL DIZDAR

Address for Correspondence

 Hurriyet Avenue Number:18 F:2-4-5-6-7 Munir Birsel Plaza B Block İsmet Kaptan Neighbourhood  
Konak/İZMİR

 +90 232 411 77 00  +90 232 411 77 01  info@izenerji.com.tr

## Tunc SOYER

Mayor of Izmir Metropolitan  
Municipality



### Dear Readers,

R&D, innovation and sustainability are both complementary and indispensable concepts in today's world. We consider the dimensions of innovation and sustainability when evaluating everything we do. We act with the determination to entrust future generations with a human-oriented city where they can live happily, comfortably.

Izenergy Inc. has taken on very important missions in line with this approach. On the one hand, we are expanding the lines and impact area of the projects we are carrying out, and on the other hand, we are continuing our preparations to realize brand new projects that our Izmir needs.

One of the great honors we experienced in September was the award ceremony in Izmir for the European City of 2022 Award. The reason why we won this award was explained as the fact that we fully underlined the title of "the city that best represents European values".

When we think about what these values are, the concepts we come across are innovation and sustainability. The Climate Neutral and Smart Cities EU Mission process, of which Izenergy Inc. is the project manager, is exactly why this award was given to Izmir. Izmir, one of the two cities from Turkey participating in this process, has been selected to the 60 CrAFt Cities platform within the mission, opening a new curtain and further expanding the voice and influence of our city and country in the world. Izmir is now one of the 60 cities in Europe undertaking the cultural integration of cities' adaptation to climate change within the principles of the Green Compact.

None of these developments is a coincidence. Izmir is the name of an enormous geography that has managed to bring people and cultures together since time immemorial. For this reason, one of our most important goals is for Izmir to be a city that is open to the outside world and has strong ties with the world. It is a great honor for us that what we do today, inspired by our deep-rooted city tradition, is appreciated on a global scale.

I know that Izmir will continue to have a say in the changes in the world with its Mediterranean spirit.

We cannot be more proud of our city's culture and its people...



## Mediterranean Shearwater

*It is possible to see large flocks of shearwaters in the open areas of Izmir's seas, especially during spring.*

## Engineer Msc. A. Ercan TURKOGLU

Chairman of the Board  
of Directors of IZENERGY INC.



### Dear Residents of Izmir;

A very valuable scientist,

An indomitable revolutionary of the 68 generation,

an idealist who devoted his entire life to public service,

Chairman of the Board of Directors of Izmir Metropolitan Municipality Organization Izelman Inc.,

We bid farewell to our dear brother Prof. Dr. Adnan AKYARLI.

His memories, advice and life story will always continue to enlighten us.

Izmir Metropolitan Municipality Institutions and Subsidiary Companies continue to provide services to our fellow citizens of Izmir with all their strength.

Izmir was selected for the CrAft (Creating Actionable Futures) Cities Mission as a result of the hard work of Izenergy European Union Projects Unit. CrAft will help bring cities and citizens, policy makers, arts and academia together to shape the transition to climate neutrality together. The European Union will test models of collaborative local governance to harness the value of inclusivity, aesthetics and sustainability towards climate neutral

cities, and Izmir to work together to share the benefits of Izenergy.

The recognition and prestige of Izenergy in the sector is increasing. Our company makes its voice heard more effectively on various platforms.

We participated in Road to Tunnel, Geothermal, Hamburg WindEnergy Congress and Fair and exchanged information with the pioneers of the sector.

Izetaş continues to supply Renewable Energy Source Certified energy to Izmir Metropolitan Municipality.

Izmir Treatment Technologies Inc. is about to complete the preliminary preparations for the rehabilitation of Cigli Waste Treatment Plant. In October 2022, implementation works will start.

The 8th issue of Izenergy Magazine will present the following articles for your appreciation;

- CHP Izmir Deputy Mr. Prof. Dr. Kamil Oktay SINDIR, CHP Izmir Deputy and Part 2 of the series on Local Solutions,

- Mr. Prof. Dr. Adnan AKYARLI's first column in Yenigun Newspaper,

- Economist Mr. Birol MANCUHAN's article on Solarwall against the Climate Crisis,

- Mr. Levent YAZICI, Energy Manager of Bursa Governorship. Levent YAZICI's EVeP16 Project Making a Difference in Turkey

Our Sustainable Climate and Energy Action Plan, Green City Action Plan, Life in Harmony with Nature Strategy excerpts, our events, introductions of managers and field staff are included in our magazine.

Until next issue, here's to clean, sunny, bright and healthy days together with Izmir residents...

He was born on 12.07.1971 in Adana. He has one daughter. He speaks German and English. After his basic education, he worked as a manager in the family company in Germany for 4 years.

He has been living in Izmir for about 30 years. He worked as a manager in his own company focusing on bookstore, publishing, public relations and advertising. He is currently studying Public Relations and Advertising. He is one of the founders of Karsiyaka Yali Lions Club Association and is actively involved in various non-governmental organizations. In addition to being the president of the association, he has served as the Hearing Impaired Coordinator and Regional President in the Federation of Lions Associations and is still working as the Civil Society Relations Coordinator. He is one of the founders of the Lions Theater Group and is also an amateur theater actor.

He has managed and contributed to projects for the benefit of Autistic Children, Ege University Low Vision Rehabilitation Center and Women

## Hakan AKYILDIZ

**IZENERGY INC.**  
Assistant General Manager

Discovering Their Strength. He has taken an active role in a wide range of social and cultural events, including various social and cultural events, aiming to contribute and social solidarity.

He worked as Assistant General Manager at IZTEK Inc. and IZDOGA Inc, which are subsidiaries of Izmir Metropolitan Municipality, and he is currently working as Assistant General Manager at Izmir Metropolitan Municipality, IZENERGY Inc.



## NEWS FROM IZENERGY



## IZENERGY AT EXPOTECH FAIR

Expo Tech - R&D, Production, Innovation Industry and Technologies Fair was held for the first time on September 14-17 at IZFAS Gazimirmir Fairgrounds.

As IZENERGY Inc., we took part in the fair where R&D centers, design centers, incubation and start-up companies and companies in technoparks and organized industrial zones exhibited their R&D, design and innovative products at Expo Tech to explain the Climate Neutral and Smart Cities Mission, renewable energy, energy efficiency and IZETAS activities.

Giving the opening speech at the fair, Mustafa Ozuslu, Deputy Mayor of Izmir Metropolitan Municipality, said: "The main element that will carry our country among the world's largest economies is undoubtedly science and technology. As the Great Leader Atatürk said, 'Science is the only true guide in life' clearly reveals the horizon and goal we should seek for. It shows us our duties and the path we should follow. And the path we should follow is science. As Izmir Metropolitan Municipality, we are aware of the importance of production and exports based on knowledge and innovation."





# ISO 14001, ISO 50001 MANAGEMENT SYSTEM AND ZERO WASTE CERTIFICATIONS HAVE BEEN RECEIVED

In our General Directorate, our work on ISO 14001:2015 Environmental Management System and ISO 50001:2018 Energy Management System standards was carried out with great dedication, and our certificates were obtained upon successful completion of the audits, along with our ongoing work within the scope of the decision to establish ISO Management Systems in our company in order to bring the disciplines that will ensure the creation, continuity and development of quality into the company culture. In addition to ISO certificates; we have also received our zero waste certificate with the aim of using resources more efficiently, reducing the amount of waste generated, establishing an effective collection system and recycling waste.



## IZENERGY IN TRANCITY



TRANSCITY "Urban Transportation Systems and Technologies Forum" was held simultaneously with Road 2 Tunnel, Türkiye's largest Infrastructure and Transportation Construction Fair. The event brings together all parties of the urban transportation sector, international public institutions and organizations that play a role in the transportation sector with private sector product and service providers. On the 2nd day of the event, Ali Ercan Turkoglu, Chairman of the Board of Directors of Izenergy, participated as a speaker in the interview on "Efficiency in Marine Vehicles, New Generation Energy Systems and Future Technologies".

## CLEANING CAMPAIGN BY PRESIDENT SOYER

Izmir Metropolitan Municipality Mayor Tunç Soyer launched the environmental awareness movement "You, Me, All of Us! Our Clean Izmir" slogan launched the environmental awareness movement from Basmane. Hundreds of bags of garbage were collected in the awareness event held simultaneously in 30 districts. Mayor Soyer said, "We have to learn not to pollute. We also have to take care of our city. We invite everyone to be sensitive about cleaning to raise this awareness."



Prof. Dr. Kamil Okyay  
SINDİR

Republican People's Party  
Izmir MP

## ON CLIMATE CHANGE AND LOCAL SOLUTIONS

Article Series (2)

### C. Are Renewable Energy Sources and Technologies the Solution?

As mentioned in the previous section, global warming and climate change have natural and human-induced causes. Natural causes include natural forest fires, permafrost formation, sunspots and flares, increase in water vapor, increase in the populations of living organisms and increased greenhouse gas emissions. Human-induced factors include deforestation, increased use of fossil fuels as an energy source for heating, lighting and production, gas emissions such as methane from solid waste sites, industrial activities, mining activities, geometrically increasing human population, meat production and consumption activities, agricultural activities such as the use of synthetic/artificial fertilizers, chemical pesticides, etc.

It is a known fact that the most important among these factors is the increase in the concentration of these gases in the atmosphere due to greenhouse gas emissions from human activities. Therefore, especially underground



it causes carbon emissions to increase as carbon dioxide, methane, carbon monoxide, etc. as a result of the use of energy from fossil fuels such as oil, coal, natural gas, etc., which are biologically based carbon-based oil, coal, natural gas, etc., which have been formed under a certain temperature and pressure over millions of years.

It would be appropriate to evaluate global warming not only with the deterioration of ecosystems and seasons due to the increase in the average temperature in the atmosphere and the rise in sea level due to changes in the water cycle on earth with the melting of glaciers, but also with its negative effects on our quality of life on this planet.

It is estimated that approximately 90 million barrels of crude oil and 8 billion cubic meters of natural gas are consumed daily in the world. Assuming that the known crude oil reserves are 1,200 billion barrels and natural gas reserves are 175,000 billion cubic meters and with the current rate of consumption of these resources, it can be said that crude oil will meet our needs for about 40 years and natural gas for about 60 years. If we add the shale oil and gas (shale gas) that may be extracted in the future to this amount, the world's oil reserve increases to 4,000 billion barrels, and this amount can meet the world's crude oil need for 120 years. Similarly, considering that 15 billion tons of coal is burned annually in the world and this amount increases by 2-3% every year, it can be said that coal reserves are sufficient for the world for another 60 years. (Data from Boğaziçi University Climate Change and Policies Application and Research Center)

Today, 80 percent of the energy consumed globally comes from fossil fuels. Renewable energy sources therefore play a crucial and critical role in reducing dependence on fossil fuels such as coal, oil and natural gas.

There is a lot we can do to reduce the amount of energy we consume. Switching to renewable energy, changing the way we live and eat, and controlling our consumption of non-renewable products can make a big difference.

Renewable energy, as a general definition, is energy derived from sustainable sources that are continuously or recursively accessed from the natural environment. Therefore, it is also possible to define renewable energy as energy that is obtained from natural resources and has sustainability. Renewable energies are obtained from sources that exist spontaneously in nature such as solar, wind, biomass, geothermal, wave energy. Unlike fossil energy sources, these resources do not deplete over time and are alternatives to non-renewable energies such as coal, gasoline and natural gas. They can be used in different fields.

Renewable Energy Sources:

- Solar Energy
- Wind Energy
- Biomass Energy
- Geothermal Energy
- Hydraulic Energy
- Hydrogen Energy
- Wave Energy

Unlike fossil energy sources, these sources are sustainable, environmentally friendly and economical energy sources that do not deplete over time and are an alternative to non-renewable energies such as coal, gasoline and natural gas. They can be used in different fields. And in the fight against global climate change, energy saving, energy efficiency and similar measures will be the most important applications for the sustainable future of our earth and life.

### D. Local Take-Up Necessary Precautions

In today's understanding of the "modern city", we can talk about cities that consist of systems based on

consumption, consume natural resources, anticipate more production, and pollute the environment with the systems they produce, the resources they use, and the types of energy they use.

Within the concept of "modernity" in question, unfortunately, there is an understanding of the city that, knowingly or unknowingly, causes environmental pollution, destruction and destruction of natural assets, pollution of water, soil, which are very important for life, reduction of biodiversity and forests, misuse of agricultural lands, air pollution, and the formation of toxic and "environments unsuitable for life" in cities. Especially in developed western countries, the wrong production system, wrong urbanization, wrong urbanization, wrong planning methods, wrong forms of construction in these cities, which have been maintained from the past to our recent history and still maintain their weight, have caused and are causing the negative development of cities.

Cities and the demands of urban life are mainly (70-80%) responsible for greenhouse gas emissions that cause global climate change.

However, the need for a sustainable, resilient understanding of the city that enables to meet the needs of its inhabitants and improve their quality of life, while protecting the natural environment and not threatening the lives of other people and living life, is becoming more and more important every day.

The need for a sustainable and resilient urban understanding is inevitable in order to overcome the problems of continuous increase in urban population, rural-urban migration, soil, water and air pollution, concretization, depletion of limited natural resources, the inability of rural areas to feed cities, global warming and climate change, dependence on non-renewable energy resources and to produce a livable urban environment.

**Practices that can be carried out towards a "Sustainable City";**

**1. Planning Based Practices**

- Energy Efficient Transportation-Planning
- From sprawling and fringing cities to compact cities
- Green areas
- Street and building island orientations
- Roof slopes and building orientations (zoning islands and street orientations)
- Wide streets and adequate infrastructure
- Integration of zoning plans with energy plans
- Urban footprints
- Strategic planning: target population according to target energy sources, carbon emission reduction targets
- Solar house-solar city approach

**2.Return to the Past and the Local**

- Overview of local architecture and urban fabric
- Taking examples from traditional architecture and traditional organic urban fabric
- Urunlu Cultural Village Project - The architecture of the buttoned houses, the use of natural energy utilization, solar architecture
- Beydili Cultural Village Project- unspoiled ecological life and village architecture,
- Kayakoy houses
- Kaleiçi, Safranbolu, Beypazari houses Traditional Urfa houses
- Traditional architecture and planning
- When these examples and many other examples that we can see in Anatolia are examined in terms of energy efficiency, they are energy efficient and natural solutions with many features such as being compatible with summer and winter climate conditions thanks to the natural materials used, orientation towards the sun and not blocking each other's sun, wind, etc. (benefiting from solar and wind energy), oriented towards nature and social life with courtyard and garden systems, creating a natural microclimate effect with water channels in the streets, streets being in organic form and parallel to the slope, etc.

**3.New technologies-ecotech approaches**

- Buildings can move from being energy consumers to energy producers.
- Wind and solar power, fuel cell technology, municipal solid waste and sewage recycling technologies
- New insulation materials make buildings more energy efficient, reducing the energy required for heating and cooling
- Solar homes-passive homes-zero CO<sub>2</sub> target from buildings enveloping (high level of insulation) airtightness (stopping air flow through openable parts ventilation (a mechanical air-ventilation system in which warm air warms the air entering the building)
- lubrication system, thermal bridges (preventing heat loss from poorly insulated points such as windows, doors, etc.)
- windows (windows that minimize heat loss in winter and heat gain in summer)

**4.Renewable Clean Energy Sources and Applications**

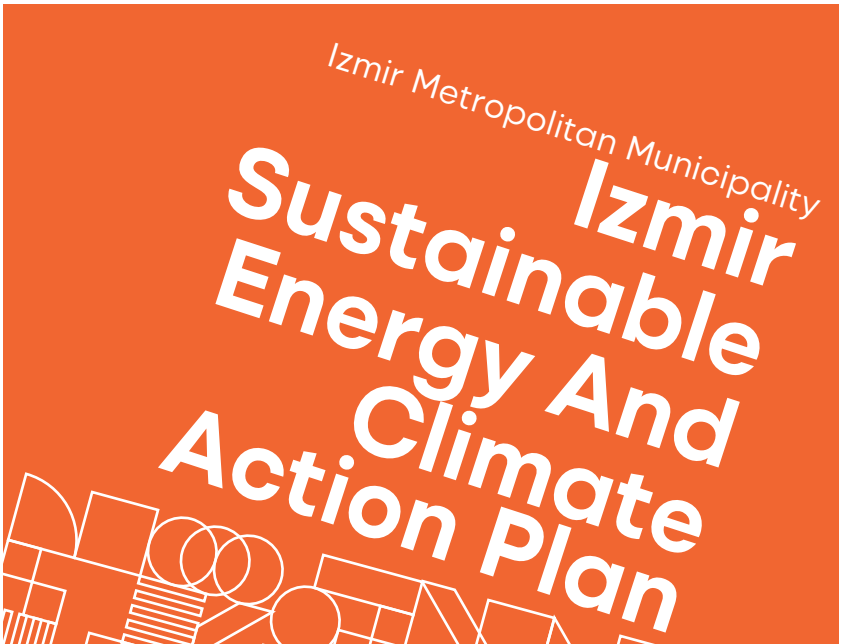
Wind and solar power, fuel cell technology, municipal solid waste and sewage recycling technologies

**5.Legal Regulations at National, International and Global levels, 6.Measures to be taken by Local Authorities**

- Establishing an energy strategy and integrating this strategy with physical strategic plans (setting targets to reduce CO<sub>2</sub> emissions
- Using zoning plans and zoning regulations as a means of implementing the energy strategy (making pedestrian and bicycle-oriented transportation plans)
- Adopting the philosophy of sustainable urban life to the citizens through exemplary practices and trainings (training seminars, joint work with the city council, professional chambers, information on the web page, monitoring the energy consumption of each family on the web page, and information service for reducing consumption
- To present the importance of clean energy use, recycling, energy-efficient pedestrian and bicycle-oriented transportation, open and green areas to the city with applications
- Incorporate the participation of all energy stakeholders in its energy organization
- Provide energy counseling to citizens Require "self efficient" self-sufficient practices in social or public housing areas/launch
- Solid waste management
- Air quality control and management Urban and environmental infrastructure policies

While governments are moving very slowly on climate change, local government units, which are in much closer contact with the society, are able to deal more closely with this problem, which is very closely related to the quality of life and health of people. In the contemporary world, management and decision-making mechanisms are becoming increasingly localized. The will of societies to have a say in the decisions to be taken especially in their own living spaces is getting stronger. Accordingly, information sharing, thematic platform formations and project-based cooperation initiatives between local governments in many parts of the world, especially on the creation of smart, resilient and sustainable cities and climate change, continue to increase, and increasingly more advanced goals than central governments can be realized much more effectively with global solidarity at the local scale.

Let us not forget;  
**"Our living space, our planet, the future of our earth is in our hands."** (End)



Excerpted verbatim from the Sustainable Energy and Climate Action Plan (SECAP), which includes actions for greenhouse gas mitigation and adaptation to the impacts of climate change, funded by the European Union and supported by the European Bank for Reconstruction and Development (EBRD), which is one of the works carried out by Izmir Metropolitan Municipality to leave a cleaner and livable city for future generations, such as the issue of energy and resource consumption for Izmir’s urban sustainability and combating the climate crisis;

### 3. Adaptation

This section provides the context around the information on past events, climate projections and vulnerability indicators that informs the basis of the assessment of current and future risk to the 11 policy sectors. A summary of the outcomes of the RVA is also provided.

### 3.1. Historical context, climate change projections and physical & social characteristics.

An understanding of what climate related events have occurred previously, and the social and environmental characteristics of Izmir is required to help inform and direct the risk and vulnerability assessment. Broken down by the headline hazard defined in section 2.3.3 of this report, the following sections will provide a summary of the historical context of the hazards in Izmir, how climate projections are expected to influence this and the physical and social, characteristics of Izmir that could exacerbate the impacts of these hazards.

#### 3.1.1. More frequent, longer and intense drier and hotter spells

The core hazard of longer, intense and more frequent drier and hotter spells promotes the occurrence of climate related hazards such as extreme temperatures, drought and forest fires, which are often interconnected. Extended periods of extreme temperatures are known to result in drought, which in turn can lead to forest fires.

#### Historical Context

Izmir’s current and historical climate is one very typical of the Mediterranean region hot, dry summers and mild, rainy winters, demonstrating strong variability of inter-annual or seasonal variability. The General Directorate of Meteorology for Türkiye collates baseline figures for temperature within Izmir on a monthly basis as seen in Table 3. The highest recorded temperature recorded in Izmir for the period of 1938 to 2019 is 43 °C, occurring within the month of August. This data also that on average, temperatures remain in excess of 25°C from June through to the end of August.

Due to these climate conditions, extreme heat, forest fires and particularly water scarcity/periods of drought are long-recognised hazards. Research shows that Izmir is believed to experience an annual frequency of < 3 drought events per year<sup>15</sup>. In 2018, a study of water potential per basin was undertaken, incorporating the three water basins located within Izmir province – Kucuk Menderes, Kuzey Ege and Gediz.

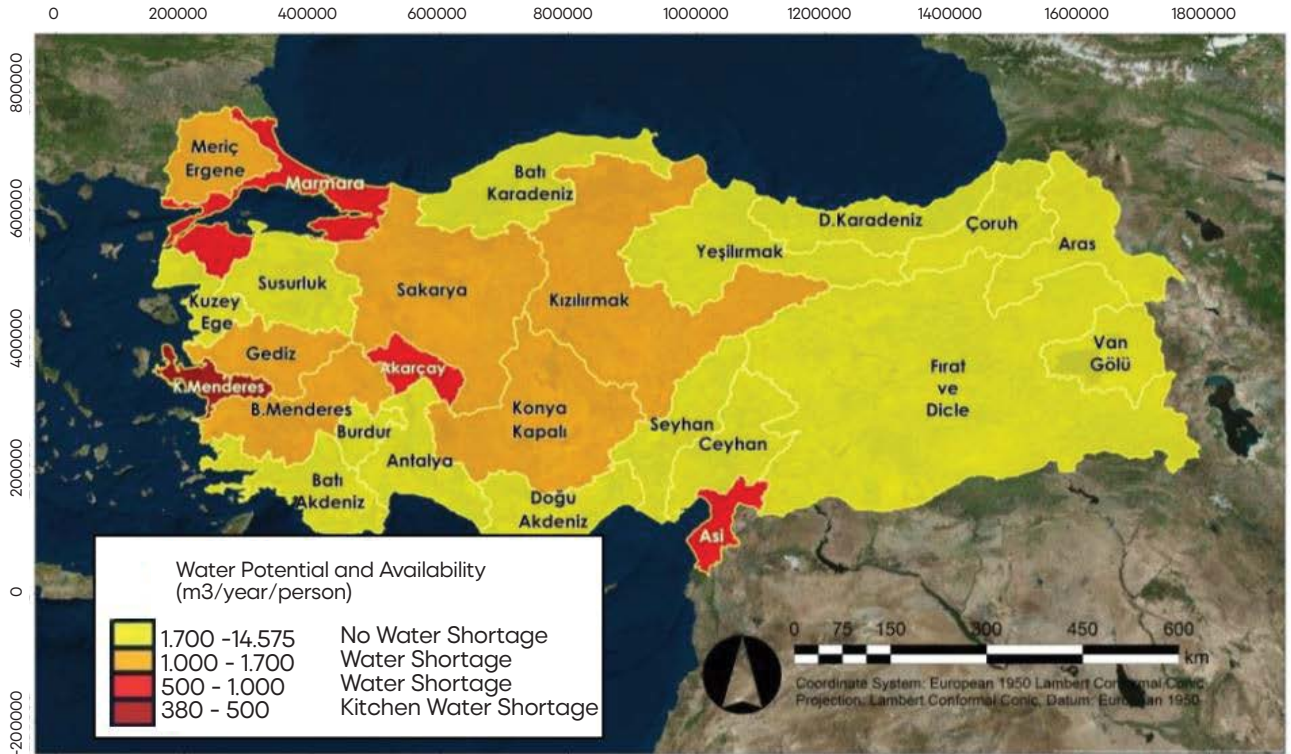
As shown in Figure 5, this demonstrates that at the time of the study, Kucukk Menderes was experiencing an absolute water shortage, with Gediz basin showing Water distress with Kuzey Ege being the only one not showing water shortages.

**Table 3: Baseline climate for Izmir (°C) 1938–2019.<sup>14</sup>**

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	De	Annual
Average Temperature (°C)	8,7	9,5	11,6	15,8	20,7	25,3	27,8	27,6	23,6	18,8	14,2	10,4	17,8
Average Maximum Temperature (°C)	12,3	13,5	16,2	20,8	26,0	30,7	33,1	32,9	29,1	23,9	18,5	14,0	22,6
Highest Recorded Temperature (°C)	22,4	27,0	30,5	32,5	37,6	41,3	42,6	43,0	40,1	36,0	30,3	25,2	43,0

SOURCE: <sup>14</sup><https://www.mgm.gov.tr/veridegerlendirme/il-ve-ilceler-istatistik.aspx?m=IZMIR>

<sup>15</sup>Baglee, A, Connell, R, Haworth, A, Rabb, B and Bugler, A. (2013). Climate Risk Study: Pilot Climate Change Adaptation City scale GHG emissions including all energy carriers and emissions sources in the geographical and Market Study: Turkey. EBRD. International Finance Corporation



**Figure 5: Turkey's water potential per Basin (m<sup>3</sup>/year/person)<sup>16</sup>**

This water scarcity is confirmed by the water exploitation index (WEI). Defined as the mean annual total abstraction of fresh water divided by the long-term average freshwater sources, this index describes how the total water abstraction puts pressures on water resources. Izmir's WEI is 72.9%. Severe water stress can occur when an area has a WEI of >40%, demonstrating that the city is very highly water constrained.<sup>16</sup>

Extended periods of drought and water scarcity, driven by prolonged dry periods and heat waves have had cross-sector impacts within Izmir. Examples include:

- A recent heatwave, lasting from 17th and 27th of June 2017 and exacerbated by the urban heat island effect, saw a consistent air temperature of 27.8°C ± 1.9 °C, compared to the average for that time of year of 24.5 °C ± 1.9 °C. An academic study undertaken in 2018 demonstrates that during this heat wave, hospital mortality rates in Izmir increased by nearly 1% - up from 320 ± 20 per day vs 269 ± 27/day.<sup>17</sup>

- Throughout 2007 - 2008, Türkiye's Aegean region experienced an 'extreme' drought that saw a reduction in average precipitation rates by 43%. This brought about direct and indirect effects, particularly impacting water dependent industry such as agriculture and the growth of some of Izmir's key crops. An academic paper from 2013 shows that, compared to 2006, plant production during drought hit 2007 reduced by 14% for cereal production, 12.7% in field crops, 2.7% for vegetables and 3.9% for fruit. In total, the Türkiye Ministry of Agriculture and Forestry estimated the direct economic cost of this drought for the whole country was €1.83 billion<sup>18,21</sup>

- Wildfires in August 2019 saw the destruction of 500 ha / 1,200 acres of land within the Urla region of Izmir. This fire was brought under control after 2 days thanks to 24 helicopters, 280 tankers of water and 35 bulldozers battling the flames. Villages had to be evacuated and a number of settlements were destroyed by the flames<sup>19</sup>.

**Climate Change Projections:**

National level temperature trends for Turkey have been developed as part of their National Communications (NC) to the UNFCCC. Up until 2100 and demonstrating the general direction of trend, these are:

- Average and maximum temperatures increase significantly while average precipitation decreases, particularly during summer months
- Increase in consecutive dry days and a decrease in frost days
- Increase in number of warm days and nights.

These trends are demonstrated by the seasonal breakdown of RCP4.5 and RCP8.5 emission scenario temperature change for Izmir (Figure 6), which reveals that average temperatures in the coldest months is expected to increase by more than 2°C by 2100, and by more than 3°C in the warmer months. Spring demonstrates a more significant increase in temperatures under both scenarios, with the greatest increase seen in Dikili, Konak, Cesme and Odemis districts. In Autumn, the RCP 4.5 demonstrates an average change in temperature between -0.75 to 0.88°C, whereas RCP8.5 portrays an average change of 0.70 to 1.60°C.

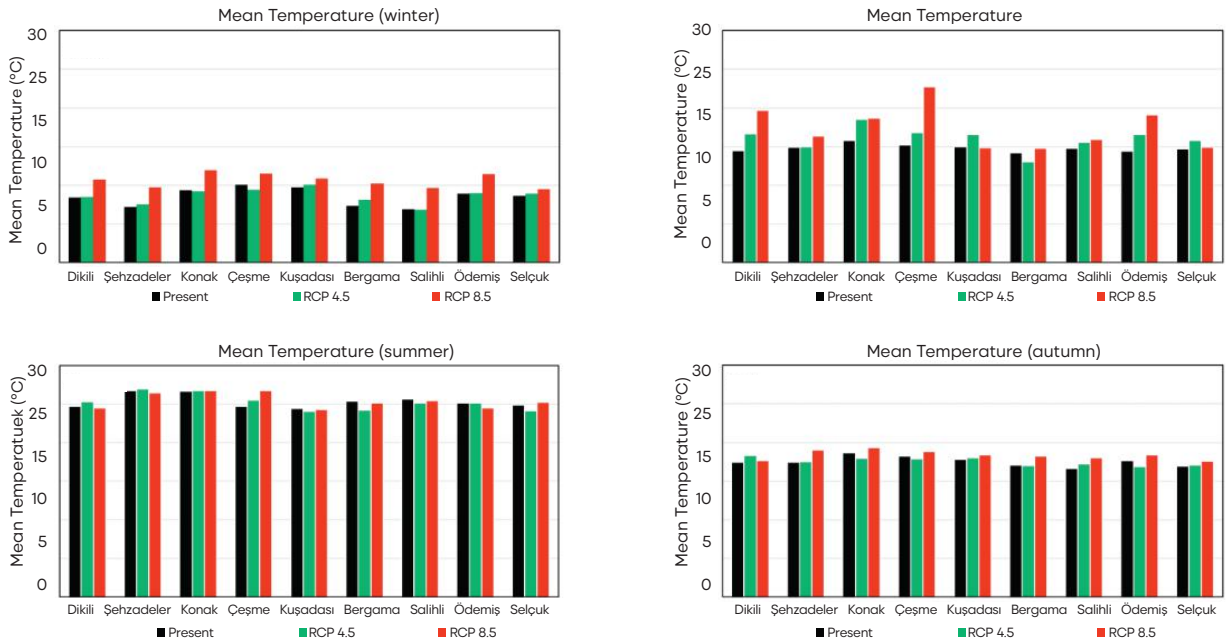
SOURCE: <sup>16</sup>European Environment Agency 2017: <https://www.eea.europa.eu/data-and-maps/indicators/use-of-freshwater-resources-2/assessment-3>

<sup>17</sup>Oray, N.C. et al., (2018) The Impact of a heat wave on mortality In the emergency department

<sup>18</sup>Engindeniz, S et al., (2013). Effects and Adaptation Measures of Drought in Turkish Agriculture: A Case Study of Tomato Farmers in Izmir, Turkey.

<sup>19</sup>Daily Sabah (August 19th,2019) "Wildfires destroy over 1,200 acres of land in western Turkey's Izmir".

(<https://www.dailysabah.com/turkey/2019/08/19/wildfires-destroy-over-1500-acres-of-land-in-western-turkeys-izmir>)



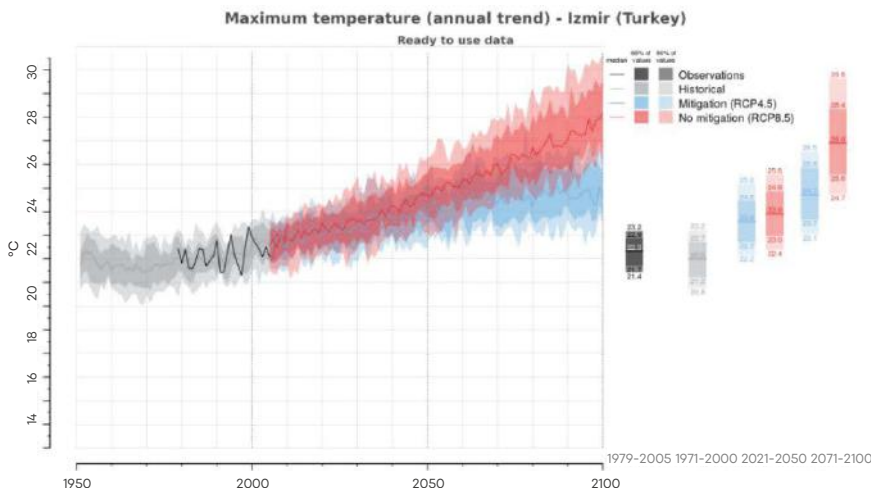
**Figure 6: Seasonal average temperature data of the current (1971-2000) and future (2050-2100) period of Izmir climate stations<sup>20</sup>**

The Climate Data Factory<sup>21</sup> also has maximum temperature projections for Izmir. Figure 7 shows the average maximum daily increase in comparison to historic baseline up until 2100 from RCP 8.5, irrespective of mitigation policies. It shows that without significant intervention the average maximum temperature is projected to increase by between 2.4°C and 7.3°C.

A Framework for Resilient Cities to Climate Change: Green Revision Guidebook details climate projections for Izmir for 2050-2100 for the high emission scenario RCP 8.5, not considering mitigation actions, are demonstrated in Table 4 against a current day baseline. Its findings largely align with the projections from the Climate Data Factory in Figure 7 and Türkiye's 7th NC.

**Table 4: Climate change projections for Izmir province, building on baseline / current day conditions. RCP 8.5 high emission scenario<sup>21</sup>**

Variables	Current Day	2071-2080	2051-2100
Chance annual mean temperature (°C)	16,6	+1,7	+4,6
Chance annual maximum temperature (°C)	22,3	+1,6	+3,6



**Figure 7: Maximum temperature (annual trend) for Izmir. RCP8.5 scenario is in red, with the blue demonstrating RCP4.5 with mitigating action<sup>21</sup>**

A Framework for Resilient Cities to Climate Change: Green Revision Guidebook also analysed the number of consecutive dry days (in which rainfall is less than 1mm) for multiple districts within Izmir (Figure 8). The Arid days index was calculated for 25 yearly periods; 1971-2000, 2050-2074, 2075-2099 using RCP.5 and RCP8.5 climate change scenarios. This analysis shows that the number of dry days in the regions of Dikili, Konak, Cesme, Kusadası increase under both climate scenarios whereas Bergama, Seferihisar, Odemis and Selçuk regions see a decrease in number of dry days under RCP8.5.

SOURCE: <sup>20</sup>A Framework for Resilient Cities to Climate Change: Green Revision Guidebook: <sup>21</sup>Climate Data Factory, <sup>2018</sup>: <https://thelimatedatafactory.com/>



Cesme / Izmir

### Dry Days

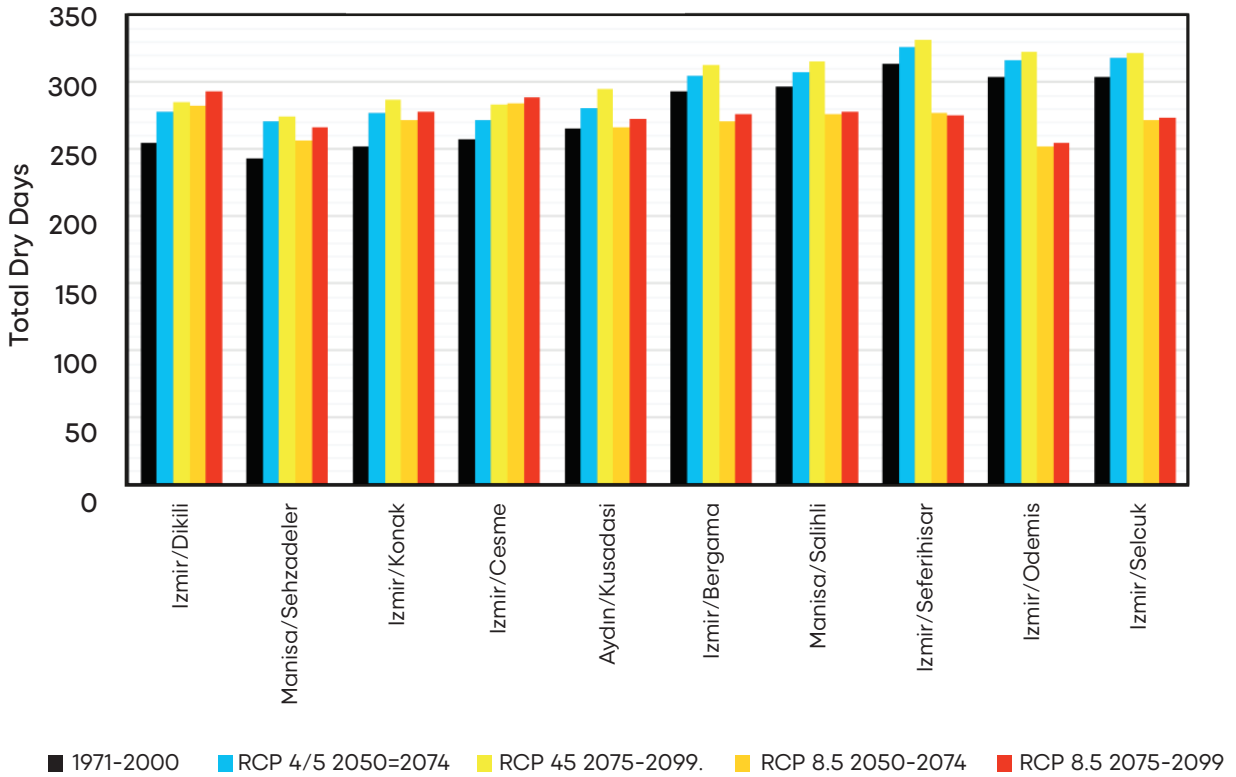


Figure 8: Long-term total consecutive dry days under RCP4.5 and RCP8.5 climate change scenarios in Izmir<sup>22</sup>

SOURCE: Figure 22: A Framework for Resilient Cities to Climate: Green Revision Guidebook, 2019



For the first time in Türkiye, the European Bank for Reconstruction and Development (EBRD) provided a grant of €300,000 to Izmir to prepare a "Green City Action Plan". All stakeholders of the city were involved in the preparation of the Green City Action Plan. The Green City Action Plan was prepared with the contribution of more than 100 participants from Izmir Metropolitan Municipality departments, public institutions, non-governmental organizations, universities, and professional chambers and approved by the city council on 16 December 2020. Here follows the direct quotation from the Plan:

### 2.3.2. Existing Plans and Projects

IMM and affiliated institutions have developed a diversified set of plans and strategies. These plans include agreements and partnerships with international institutions. The reasoning behind the group of plans and projects compiled below (Table 6) is to combat climate change, to establish and maintain sustainable growth standards for the City, and to integrate nature-oriented solutions for the resilience and sustainable development of Izmir.

**Table 6: Key existing plans and projects to incorporate within Izmir's GCAP.**

Plan or project	Timeframe	Description	Relation to GCAP
EBRD & IFC Pilot Climate Change Adaptation Market Study – Turkey	2013	The study was prepared with the aim of understanding the needs of the Turkish private sector in order to improve climate resilience. It was funded jointly by EBRD and IFC and undertaken in collaboration with the Union of Chambers and Commodity Exchanges of Turkey (TOBB) and MoEnvU.	Identifies specific, market-based tools and steps to improve water efficiency and climate-smart solutions for buildings.
IMM Integrated Solid Waste Management Plan	2018	This plan has been prepared with the objective to ensure sustainable waste management in middle and long term as well as to establish an integrated system with an affordable cost.	GCAP to support strategy recommendations related to solid waste e.g., management of the waste produced within each district in line with the most appropriate disposal method.
Izmir Green Infrastructure Strategy	2017	This strategy document is prepared to integrate with and foster the environmental investments, sustainable transport infrastructure, new generation park and recreation areas, sustainable energy action plan, and climate change mitigation and adaptation actions pursued by IMM.	Provides baseline for GCAP in water management and green infrastructure.
A framework for Resilient Cities to Climate Change: Green Revision Guidebook	2019	The aim of this project is to create a resilient urban area in the context of climate change by using, enhancing, and supporting the potential of green infrastructure throughout Izmir Province.	GCAP measures to consider the problem area identified through the strategy and reflect key actions proposed.



Izmir Metropolitan Municipality COVID - 19 Resilience Action Plan	June 2020	This report gives an account of the measures and activities that IMM introduced as a result of the new working model "crisis municipalism". It consists of three main sections; including the preventative services that IBB has carried out in crisis situation, the works carried out currently within the scope of combating the pandemic and the monitoring and adaptation activities to be performed within the scope of recovery efforts in the aftermath of the pandemic.	GCAP measures to consider the parallels that can be drawn, and the lessons learned from the COVID-19 response. They would also take advantage of the opportunity presented for a green and more resilient recovery.
Izmir Strategic Plan 2020 - 2024	2020-2024	Izmir Metropolitan strategies are founded upon the historical heritage of Izmir with the city striving to strengthen the connections between the eastern and western communities. The main target behind the strategies is to integrate Izmir among the cities of the world, in coherence with the natural qualities of the city.	Priorities have been set both for the management of the IMM and for the development of the city. Environmental problems have been identified and prioritized and actions have been addressed.
Izmir Sustainable Energy Action Plan (SEAP 2016)	2016-2020	Prepared as part of Covenant of Mayors (CoM) agreement within European Commission (EC). The aim is to mitigate GHG emissions in Izmir by at least 20% until 2020 with internationally adopted procedures and standards.	Identifies actions related to green sustainable cities including protection and expansion of green areas, which is important against climate and disaster risks. GCAP measures to consider the problem area identified through the plan and reflect key actions proposed.
Izmir Sustainable Energy and Climate Action Plan (SECAP)	2020-2030	It has been prepared as part of the city's obligation in joining the Covenant of Mayors (CoM) and is funded by EU and supported by EBRD. The SECAP enables the collection and analysis of data in a structured and systematic manner for both climate change mitigation and adaptation, developing actions to help hit the CoM targets of; 40% emission reduction by 2030 against 2018 baseline, increase the cities resilience.	It has been aligned with the development of GCAP, together with Izmir's Strategic Plan Vision, enabling a greener future for Izmir.
Izmir Transportation Master Plan (UPI 2030)	2015-2030	This plan is a collection of long-term planning decisions and principles produced for the solution of current and expected problems in the future, by complying with the construction plans and giving priority to public transportation.	GCAP transport actions will consider the direction and priorities identified in the plan, such as improving the public transport system, decreasing private vehicles use, increasing the number of electrically powered vehicles, increasing commuting role of cycling.
IZSU Potable Water Master Plan (2017)	2050	The purpose of this document is to provide a comprehensive review of Izmir's potable water supply and distribution system and develop a structured program to identify system improvements necessary to meet existing and future demand conditions. This report has been incorporated within IZSU Strategic Plan 2015 - 2019 and 2020 - 2024.	Provides the baseline for the GCAP in terms of potable water management, laying out the footprint for future water management intensions in Izmir.

IZSU Strategic Plan	2020-2024	The vision of IZSU is to become an institution that prioritizes the aquatic ecosystem under the light of science and latest technologies, makes sure that water returns to the nature without harming the environment, leaves behind a livable environment that can pass the wealth of tomorrow through generations, and finally to become a pioneer institution that is integrated with Izmir.	GCAP to develop priority actions to improve the sustainability of Izmir, aligned with IMM Strategic Plan 2020 - 2024.
Kucuk Menderes Flood Basin Management Plan	2019	This plan has been prepared to determine and evaluate the flood risks of the Kucuk Menderes Basin and to reduce the negative impacts of floods on human health, environment, cultural heritage and economic activities.	GCAP to consider in relation to water supply, sanitation and drainage.
UPI Bicycle and Pedestrian Action Plan	2017-2030	The vision of the plan is to transform Izmir into a pioneer city focused on non-motorized transport. It includes actions to improve the bicycle utilization in the city for citizens and tourists, to establish central and safe pedestrian areas, and to decrease transport related GHG emissions.	GCAP transport actions will consider the direction and priorities identified in the plan, such as increasing commuting role of cycling.
Plan or Project: Historical Centrum Sustainable Logistics Plan	2030	Prepared to ensure effective sustainability is incorporated within the planning of logistical operations within Izmir. It strives to do this by preserving the historical-cultural heritage of the Historical Centrum of Izmir and its market identity.	GCAP will benefit from this plan in terms of reduction of carbon emissions and increasing pedestrian traffic and ensuring safe and comfortable pedestrian traffic.
Plan or Project: Izmir Sustainable Urban Logistics Plan	2030	This plan outlines sustainable solutions to resolve challenges identified within Izmir's Urban Logistics, specifically in regard to the demand and capacity of transportation systems within the jurisdiction of IMM, to ensure co-ordination and efficiency across relevant stakeholders.	Prepared for ensuring the planning and sustainability of logistics operations by preserving the historical-cultural heritage of the Historical Centrum of Izmir and its market identity.
Urban GREENUP	2017	An EU-funded project within EU Horizon 2020 Programme, which aims at developing, applying and validating a methodology for Renaturing Urban Plans to mitigate the effects of climate change, improve air quality and water management and increase the sustainability of cities through innovative nature-based solutions. It is currently established in three runner cities, which are Izmir, Liverpool and Valladolid.	Provides baseline for GCAP in climate change, air quality, water management and green infrastructure.



Sunset Viewing Terrace  
Bostanlı / Izmir

### 3.2.3 Existing EBRD Investments<sup>9</sup>

#### i. Izmir Metro Project II, F. Altay to Narlidere (GCAP trigger project)

**Funding provided:** EUR 80 million loan to IMM

**Approval Date:** June 2018

**Progress to date:** 345% of construction completed as of 30th April

**Origin:** Sub-project under EBRD's Green Cities Framework (GrCF)

#### **Description:**

The Fahrettin Altay-Narlidere-Kaymakamlık metro line covers a total length of 7.2km, including underground station and electromechanical works. The project has enabled the city to extend its existing metro network work and promote low-carbon sustainable urban mobility in one of Türkiye's most congested cities. Once completed it will improve connections between the eastern and western areas of the city and better integrate various existing transport systems.

EBRD has also supported Izmir with the acquisition of five vehicle ferries currently being operated by Izdeniz (Izmir Ferry Company) in 2013 and with 85 light rail train vehicles in 2014.<sup>10</sup>



**Figure 5: Graphic of Izmir Metro Project II.**

#### ii. Izmir Metro Project III, Buca to Uçyol (GCAP follow-up project)

**Funding to be provided:** EBRD is mandated to provide a EUR 80 million loan to IMM

**Approval date:** December 2019

**Origin:** A follow-on investment under EBRD's Green Cities Framework



**Figure 6: Route map of Izmir Metro Project III.**

#### **Description:**

The Buca to Uçyol metro extension will form a part of the third phase of the investment into Izmir's metro.

The line will start at Bozyaka and there will be 11 stations namely Bozyaka, Uçyol, Zafertepe, General Asim Gunduz, Sirinyer, Buca Municipality, Kasaplar, Hasanaga Bahcesi, Dokuz Eylul University, Buca Koop and Camlıkule. The Buca line will meet with second stage line along F. Altay-Bornova at Uçyol Station, with IZBAN line at Sirinyer Station.

This project will result in safer and more reliable transport services for ~350,000 passengers per day. The Project is expected to significantly reduce high traffic congestion and noise pollution. The new line, together with its integration to the existing network, will replace high-carbon modes such as private cars and minibuses that use fossil fuels achieving transport modal shift thereby reducing GHG and air pollutant emission from transport in Izmir.

SOURCE: <sup>9</sup>Project Information was provided by EBRD.  
<sup>10</sup><https://www.ebrd.com/work-with-us/projects/psd/izmir-metro-proiect.html>

# İZMİR'S STRATEGY FOR LIVING IN HARMONY WITH NATURE



Quoted directly from Izmir's Strategy for Living in Harmony with Nature.

## 5. Strategic Documents and Action Plans

Izmir's strategies for living harmoniously with nature are growing and deepening rapidly with investments and implementation projects. Cities, as the major contributors of carbon emissions, are responding to the climate crisis through alliances and strategies aimed at reduction and harmonization. Regarding the reduction of greenhouse gases in the city, in 2015 the Izmir Metropolitan Municipality aligned itself with the European Union initiative, the Covenant of Mayors, one of the most effective city networks in the world. In line with this, the "Sustainable Energy Action Plan" was published in 2016, and improvements were made, particularly in areas such as high budget sustainable transport investments, energy efficiency, and water purification.

With its areas of responsibility broadened to encompass the entire region under the new metropolitan municipality law, the Izmir Metropolitan Municipality completed its expansion plan in 2017, in line with the assumptions of the 1/25,000 scale Izmir Urban Region Master Zoning Plan (IKBNIP), in such a way as to include 3 basins, 13

districts and 428 rural settlements. Thus, it is aimed that the city be integrated with the green belt on the outskirts and the green corridors along the river courses in a way that strengthens the social and technological infrastructure of rural areas to support nature-friendly alternative tourism and agricultural production.

With regard to climate harmonization, in 2017 it was decided to create the "Green Izmir Infrastructure Strategy" and the Izmir Metropolitan Municipality commenced the process by establishing an internal secretariat to support the adoption of nature-based solutions. In June 2017, the Izmir Green Infrastructure Experts' Workshop", attended by over 150 experts from all local and national level organizations (Universities, public sector organizations, NGOs) was held. Suggestions were tabled under the headings 1) Planning and Administration 2) Water Areas 3) Corridors and Connections 4) Buildings, Wastelands, and Areas to Repair. In November 2017 focus group studies were carried out to develop the ideas proposed, assign duties and establish connections between themes, and plan the timetabling and relevant announcements and descriptions. The strategy was then announced in January 2018 at a meeting discussing the international experiences organized.

*Türkiye's first green city action plan was published for Izmir in 2021. Izmir's climate action plan was updated in 2021.*

Furthermore, during this process, firm steps were taken towards partnering experience with European Union and other international projects and coordinating with research networks facilitating information exchange. These projects were intended as a vehicle for testing solutions and proving and measuring their effectiveness. In 2017, the funding-approved "Re-Naturing Cities through Nature-Based Solutions- URBAN GreenUp" commenced. Urban GreenUp is a project supported under the aegis of the European Union Horizon 2020 program. With the aim of developing, implementing, and repeating city plans, the group of partner cities, both inside and outside Europe, have the aim of working in concert to reduce the impact of climate change, improve air quality, improve water management, and develop innovative nature-based solutions. The five-year implementation period (2017-2022) is ongoing under the leadership of Izmir (together with Valladolid and Liverpool) as an international group of 25 partners. The heading of "nature-based solutions" comprises a large number of innovative practices, such as green cycling and hiking routes, parks and urban agriculture facilities, the utilization of smart soil and bio-filtration, and the deployment of sustainable drainage systems that reduce the effects of flooding/overflow.

Through EU funds, the “A Framework for Resilient Cities: Green-Focused Practices” project was carried out in the years 2017-2019, and a climate model was created for Izmir for the years 2050 and 2100, together with a guiding framework consisting of recommendations for climate adaptation. Moreover, under the aegis of Horizon 2020, the RURITAGE- Rural Renewal through Cultural Heritage-Based Systematic Strategies” project commenced in 2018 with an international group of 39 partners including transnational organizations such as UNESCO and ICLEI. With regard to the Izmir-Sea Project, a major part of the city’s green infrastructure strategy, all of the coastal areas along the outskirts of the bay have become public space, as part of strengthening the ties between Izmir residents and the sea.

For the five-year period, the Izmir Metropolitan Municipality has published its “2020- 2024 Strategic Plan” centered on the United Nations Development Goals and Izmir’s priorities (17+10). Under the fifth of the seven strategic aims of the plan, entitled “nature”, Izmir has set out its goal of becoming a model city with regard to living in harmony with nature. Goals ranging from conserving biodiversity through to cleaning up the bay are laid out under different headings covered by this fundamental strategic goal.

The Izmir Metropolitan Municipality’s strategy for 2020-2024 takes a much broader approach to the definition of “infrastructure” than the traditional understanding. From this innovative perspective, green space is described as a focus of infrastructure. Just as

buildings and roads require a well-maintained, earthquake-resistant infrastructure, green space is treated as a fundamental infrastructural element for the nature-based transformation of the city. Green infrastructure, just as much as roads, sewage, and access to water, is viewed as one of the fundamental rights of citizens.

“The Covid 19 Resilience Plan”, which will increase resilience in the face of the pandemic and other sudden events and raise the capacity of the Izmir Metropolitan Municipality in dealing with these, was published in June 2020. Izmir has adopted the approach of “crisis municipalism” as a response to the pandemic and similar crises and has organized to cover the monitoring and adaptation process.

In 2021, the Izmir Greater City Council approved two important strategic plans. The ‘Izmir Green City Action Plan’ (Izmir GCAP) and ‘Sustainable Energy and Climate Action Plan’ (Izmir SECAP), creating a framework for the development of international cooperation and harmonization of Izmir’s efforts in the areas of nature and climate. These plans provide a road map for Izmir’s struggle against climate change and for harmonization with nature and touches on many different industries. The Izmir SECAP, signed by the Izmir Metropolitan Municipality in line with the Pact of Mayors and EU Paris Climate Declaration of Intention, has set the goal of reducing greenhouse emissions by 40% by 2030. SECAP sets out areas of action to deal with fundamental risks and fragilities in various industries and, on the ‘biodiversity’ axis, acts on extreme climate effects such as drought, and preventing the further loss of biodiversity.

In Türkiye, Izmir is the first city to be included in the European Bank for Reconstruction and Development (EBRD) Green Cities Program. The aim of the Green Cities Action Plan, prepared for the first time for Izmir with the support of a 300000 Euro fund from the EBRD, is to create a vision and develop projects that will enable a greener future for Izmir by identifying environmental difficulties and taking the most urgent action based on the diagnosis of what is most necessary. GCAP presents a comprehensive action plan dealing with a series of urban problems comprising issues such as water, biodiversity, air, soil, and climate change.

On the issue of climate change, the promise made in 2015 by the Izmir Metropolitan Municipality to reduce greenhouse emissions to 20% has been renewed under the Izmir SECAP, in parallel with European Union targets, to reduce emissions by 40% by 2030 and to increase the resilience of the city in adapting to climate change. Although the final action plans, the GCAP and SECAP, were prepared separately, they complement each other and the goals and actions of each plan have, as much as possible, been harmonized. Each plan consists of 61 actions covering land use, waste management, buildings, environment and biodiversity, energy, public health, civil defense and emergencies, water management, agriculture and forestry, and the tourism and transportation industries.

The common thread through all of these strategies is the aim of constructing a city resistant to natural disasters, increasing welfare, ensuring fair distribution, and conserving biodiversity.

A summary all of these strategies is presented in table 5.1.

### Sustainable Development Goals



The fifth strategic objective of the Izmir 2020-2024 strategy is defined as “Making Izmir one of the world’s exemplary cities for living in harmony with nature”.

## STARTING TO YENIGUN



Prof. Dr.  
Adnan AKYARLI

Chairman of the Board  
of Directors of IZELMAN INC.

Throughout my life, from time to time, I have held positions in the print and visual media. When I examine my CV in this context, the following titles come to mind: 1992 - 1994: "Ege Kultur", editor of the semi-annual magazine published by the Aegean Cultural Foundation. 2005 - 2008: "Kuresel Bakis", a bi-weekly TV program on Ege TV with Nezhil Ozturk, moderated by Ozgur Hancioglu 2016 - 2017: "Kuresel Bakis", my columns published in the online magazine Ege'ye Bakis.

Beyond my personal experiences, we have a family interest in the subject. My daughter Aysegül Akyarli graduated from Ankara University, Faculty of Communication.

During her time in the US, she wrote for Turks of America magazine and the website gecce.com. After returning to Türkiye, she worked at Hurriyet, Haberturk and Wall Street Journal newspapers respectively. She is currently the Media Relations Manager of Sise Cam Group.

My daughter Aysin Akyarli Savatli and son Hikmet Savatli have been living in New York for some time. Aysin writes for MedyaTava and Hikmet writes for Gozlem, a newspaper in Izmir. With Yenigun, a new page opens for me in this field that we are close to as a family.

This occurrence I had never thought of came to forefront during my visit to my dear friend Mesut Simsek to congratulate him on the obligations he has assumed at this newspaper. During our conversation, Mesut informed me about Yenigun's vision, mission and goals. In this context,

I was overly impressed when he told me that they were going to create a new forest and plant a tree every year for his colleagues working at the newspaper, and he made an offer - which was a surprise for me - with the following words: Dear Mesut! If you plant a certain number of trees every year, I can write in your column every two weeks. For 2021, my request is 16 trees.

After this proposal was approved, I answered the question, "Why 16 trees?"

1- We know that carbon dioxide (CO<sub>2</sub>) gas in the atmosphere is increasing, and this has a triggering effect on climate change.

This value varies from country to country and the magnitude of the record is defined by the value of "CO<sub>2</sub> production per capita".

According to the latest statistics I have access to, this value was 6.1 tons of CO<sub>2</sub> / person / year in Turkey in 2019.

2- Let's talk about the relationship between CO<sub>2</sub> and saplings.

Its basis is photosynthesis, the process by which green plants take carbon dioxide from the air under sunlight and release oxygen.

3- The biomass (vegetative mass) of a red pine tree with a diameter of 25 cm is 220 kg and this tree takes 220 kg x 0.51 (the carbon content in the tree) = 112.2 kg of carbon from the

atmosphere until it reaches a diameter of 25 cm. This is equivalent to 112.2 x (44/12) (carbon to carbon dioxide conversion coefficient) = 411.4 kg of carbon dioxide.

Accordingly, we can say that a red pine sapling we plant will absorb 0.4 tons of CO<sub>2</sub> over its lifetime, and we can take this value as a reference for all saplings.

I used this value in the calculation and determined the number of saplings that should be planted in a year for my share of CO<sub>2</sub> emissions as 6.1 tons CO<sub>2</sub> / person / year / 0.4 tons CO<sub>2</sub> / sapling 16 saplings / year for 2021 - staying on the safe side.

In the following years, I will calculate according to the statistics to be published, determine the number of fields and inform my friend Mesut.

As a result, I am proud and pleased to have the privilege of being an individual with a zero-carbon footprint with 16 saplings to be planted in the forest to be created.

In the coming period, I would like to continue this pleasure by writing on a wide range of topics from environment to politics that I think will be of interest to you.

You may stay with love and friendship.

## IZENERGY Wind Energy in Hamburg



Ali Ercan Turkoglu, Chairman of the Board of Directors of Izenergy, participated in the Wind Energy Hamburg Fair organized in Hamburg, Germany, which is the meeting point for professionals in the wind energy sector.

He followed the developments in renewable energy and shared the approach and policies of Izmir Metropolitan Municipality and our company to renewable energy with visitors and companies at the fair.

## A New Step in the EU Mission for Climate Neutral Cities 60 CrAft Cities

A new success was achieved in the "Climate Neutral and Smart Cities Mission" process, which is carried out by the European Union and for which IZENERGY INC. is the authorized institution on behalf of Izmir. With the application of IZENERGY INC., Izmir was one of the 60 cities selected for the CrAft Cities Platform, where Mission Cities can also participate. Thanks to the studies that will determine the future of European cities, Izmir will be a source of inspiration for cities on the way to becoming Climate Neutral, and the pioneering identity of our city will be recognized all over the world.



## Türkiye's Renewable Energy and Geothermal Energy Journey Panel

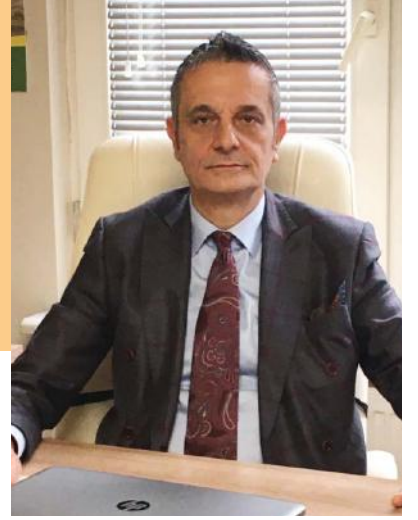


Bringing together national and international geothermal industry stakeholders, the 5th International Geothermal Energy Congress and Fair (IGC Türkiye) opened its doors. Ali Ercan Turkoglu, Chairman of IZENERGY Board of Directors, participated in the panel titled Türkiye's Renewable Energy and Geothermal Energy Journey. In his speech at the panel, Mr. Turkoglu explained the approach and policies of Izmir Metropolitan Municipality and IZENERGY regarding renewable energy.

## CLIMATE CRISIS AGAINST SOLAR WALL: SOLARWALL

**Biröl MANCUHAN**

Chairman of the Board  
of SolarWall Türkiye  
Economist - Operator



Carbon emissions are one of the biggest problems that industry needs to get rid of rapidly. And there are actually many technological solutions. In many regions we can observe photovoltaic panels on our roofs, solar water collectors or wind turbines installed in suitable areas. SolarWall is a technology that is a solution for both residential and industrial buildings.

SolarWall is a technology that can be applied wherever warm air is used. SolarWall works with the logic of heating the fresh air in the outdoor environment and transferring it to the indoor environment. In this way, it is possible to provide hot air quite economically with 100% fresh air.

It can be applied in industrial facilities (factories, warehouses, hangars, drying facilities), living spheres, public spheres (business centers, schools, hospitals, laboratories, campuses), agricultural and livestock facilities (greenhouses, farms, poultry houses, large and small ruminant barns).

It reduces energy consumption in all industrial drying processes such as paint, fertilizer, sludge, food drying.

SolarWall provides air heating during sunshine hours and passive cooling in summer by acting as a sun shield. It can convert 80% of the solar energy it receives into useful heat.

It has been calculated that it can provide savings of 60% - 90% in ambient heating.

Specialized panels, which are air-tight solar collectors, can be applied to the exterior of a building or to the roof. The air in front of the panel absorbs and heats up and passes through the holes in the panel to the back side and is transferred to the environment with a fan. There are 2500 micro holes per m2 on the nano technology special alloy aluminum steel coating material. The system has no cost other than the initial installation cost. It is a 10-year guaranteed product and does not require maintenance during its lifetime. SolarWall is designed for climatic conditions and is resistant to corrosion and deterioration thanks to the prismatic paint on it.

It is still in use at the FORT DRUM military facility, the first application completed in 1984 in the USA. Estimated lifetime at for at least 40 years.





## What are the advantages of SolarWall? Who can benefit the most from SolarWall?

SolarWall reduces energy costs for all commercial and industrial buildings that need heating and ventilation. With this feature, it concerns all energy consumers. It benefits all companies that reshape their corporate processes on sustainability, care about climate policies, aim to reduce greenhouse gas emissions and want to be ready for upcoming legal practices (carbon tax, carbon share in energy bills, etc.). By using SolarWall panels our companies can reduce their carbon footprint by preventing carbon emissions while saving money. Recently, some features of SolarWall have come to the forefront as serious advantages. For example, before the pandemic, the fresh air rate in air handling units did not exceed a certain rate in order to save energy. With the pandemic, 100% fresh ventilation and heating have gained

immense importance, and this has caused a serious cost increase for buildings such as hospitals, shopping malls, plazas, factories, etc. with air handling units.

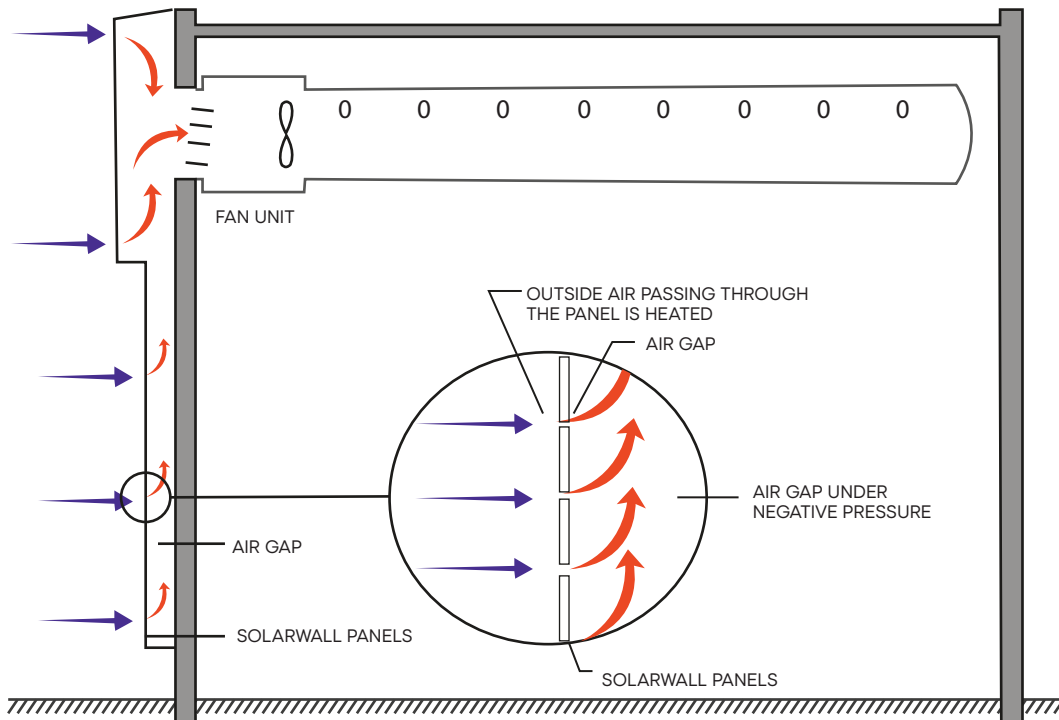
SolarWall is a unique technology to combat these costs. In addition, the Green Deal is now being discussed in exports. Manufacturers that provide carbon emission reductions will be more advantageous in the European Union and world markets. SolarWall is also at the forefront here as it reduces fossil fuel consumption. SolarWall also stands out with its high point return in Leed-Breem green building certifications, which buildings that attach importance to sustainability and energy efficiency choose to obtain and maintain.

Facade and roof applications can be made on all new and old buildings. Since the panels are lightweight, they do not affect the building statically, protect the building from external factors and also add an elegant and modern look to architectural applications. With these advantages, SolarWall has won awards for many

organizations such as TAI, Tofas, Ford Otosan, Arcelik, Pimsa Holding, HKTM, Friterm in domestic industrial applications. In global applications, there are many institutions and organizations such as NASA, USA Army, Jaguar & Land Rover, Toyota, M&S, Bombardier, Ford, Fedex, 3M, Goodyear, Tesco, etc.

## In which countries in the world is it applied?

SolarWall is a leading technology that has made a difference in the renewable energy world. Installed in 41 countries in the world's biggest brands since 1980, SolarWall's production centers are Canada, USA, France, China and Turkey. SolarWall Türkiye., which started as a distributor in 2012 in the Turkish market, also started domestic production in 2019 with the support of the Ministry of Industry and Technology. We continue to produce in Bursa Nilufer O.S.B. (organized industrial site) with the slogan of neutral carbon in the industry in accordance with sustainability and global climate policies, addressing the markets of Türkiye, Eastern Europe, Russia, Ukraine and Turkic Republics.



# “EVeP16” THAT MAKES A DIFFERENCE IN TÜRKİYE

Levent YAZICI

Bursa Provincial  
Governorship  
Energy Management  
Unit Energy Manager



Before examining the Energy Efficiency Project (EVeP16), it is necessary to know what "energy efficiency" is. It is the reduction of energy consumption per unit or per product quantity without leading to a decrease in the standard of living and service quality in buildings and production quality and quantity in industrial enterprises.

With the impact of agriculture, industry and information society, the unlimited use of fossil fuels just for the sake of obtaining energy is depleting the resources of our world. One of the objectives of EVeP16 is not to cause pollution while producing energy. This can be achieved by using available

energy effectively and efficiently without wasting it.

It aims to prepare the identity certificate, to carry out building control and inspection activities, to meet energy needs from cogeneration system and renewable energy sources, to create and update the building inventory throughout the province, to monitor and automate energy remotely, and to improve energy culture and efficiency awareness in schools.

EVeP16 aims to create the systems and processes required to improve energy performance in terms of use and consumption, to use energy effectively, to prevent waste, to

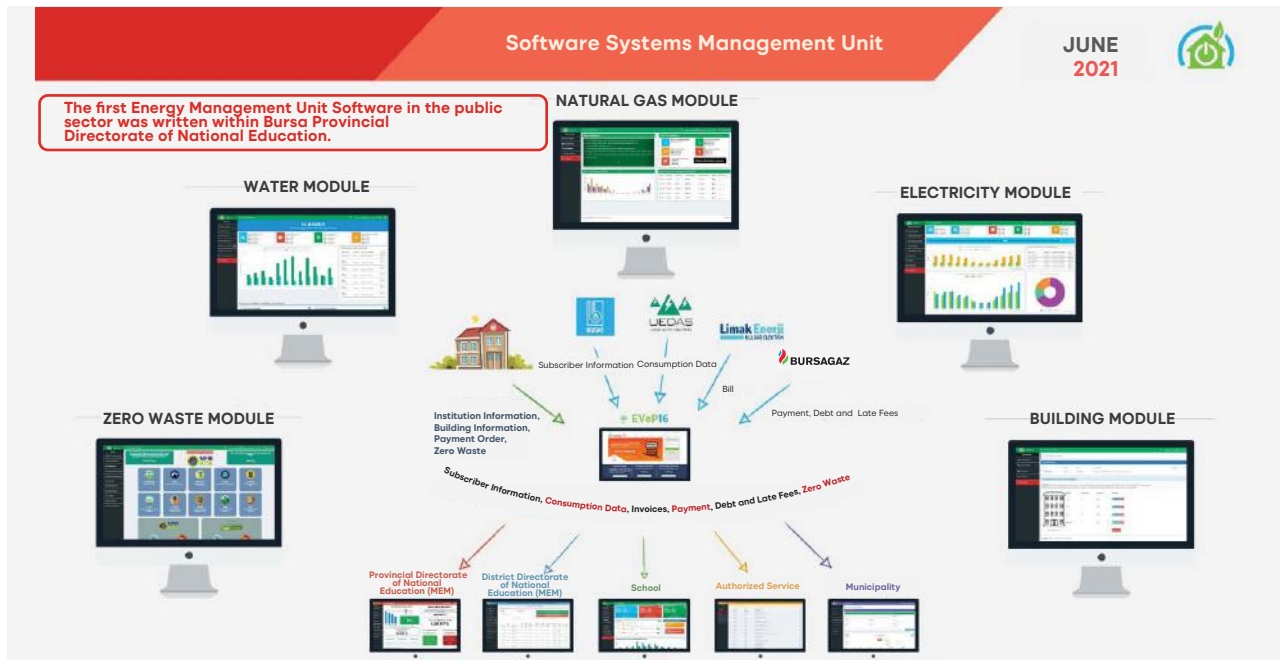
conserve energy resources by reducing the burden of costs on the corporate budget and to increase efficiency. A pioneer in Türkiye, EVeP16 is a program where the energy infrastructure of all schools in Bursa is entered, analyzed and reported. It is the local embodiment of national targets.

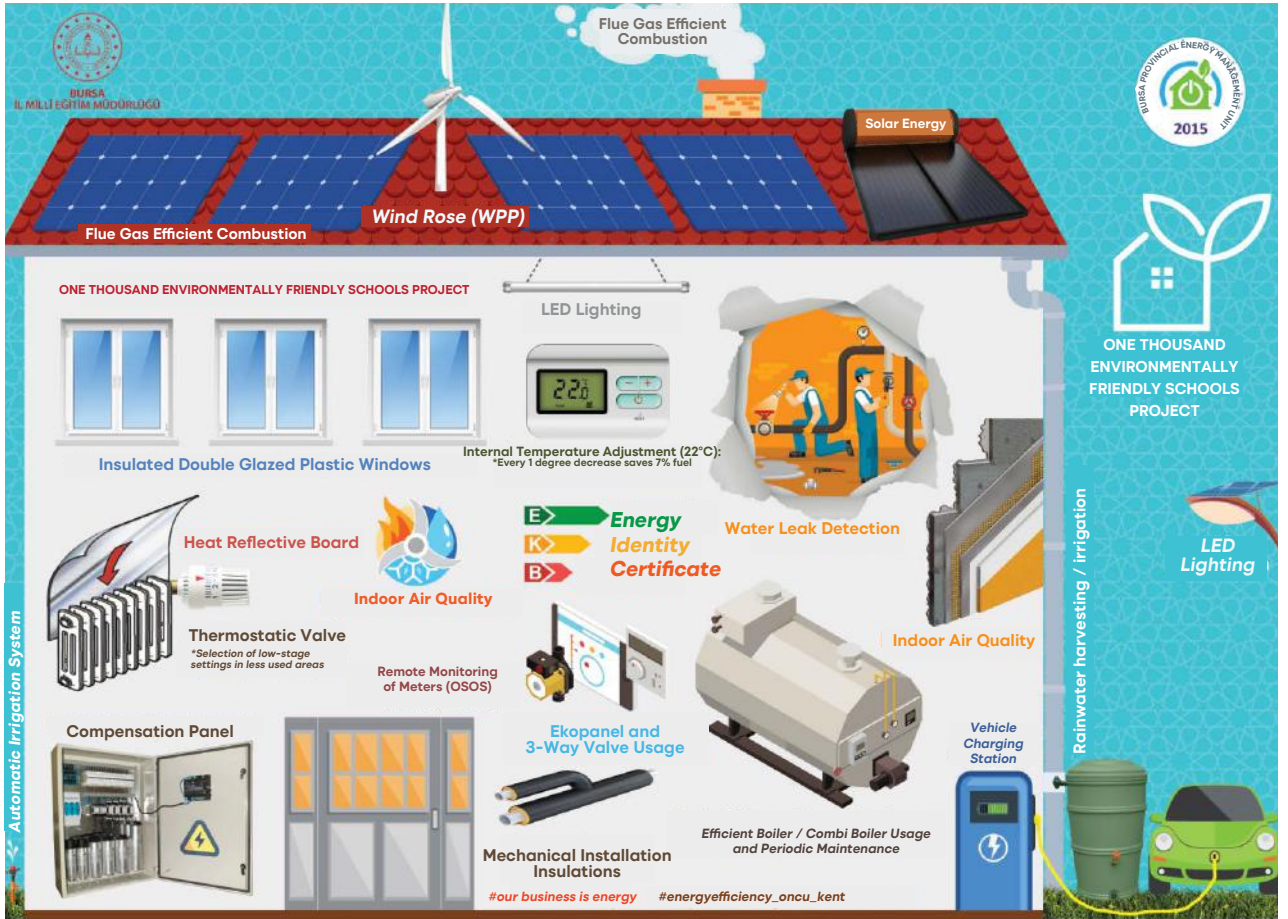
With EVeP16:

- Increasing environmental awareness and energy efficiency consciousness among consumers,

- Establishment of a Provincial Energy Policy,

- Establishing the Energy Strategic Plan,





- Establishing the goals and objectives of the Energy Management System,
- Ensuring the safe and economical consumption of energy,
- Increasing environmental awareness and raising awareness through energy efficiency training,
- Improving energy consumption habits,
- To record the energy infrastructure information of schools and institutions in an accessible and traceable way,
- Supporting the "National Energy Efficiency Movement" with the participation of the private sector and NGOs,

With the 64th Government Program, 10th Development Plan and the Energy Efficiency Strategy Document, we aim to achieve a competitive energy system that strengthens Turkey's strategic position in international energy trade.

**The Energy Management Unit is the executor of the "Thousand Eco-Friendly Schools" project initiated by the Ministry of National Education in Bursa.**

One school from each district in Bursa has been designated. The target is to start with 17 schools and make all the other schools environmentally friendly schools. In these schools, solar panels and rainwater storage units will be installed and used in different areas of the schools.

- ✓ Existing libraries in schools will be transformed into zero-waste libraries.

✓ In this way, students will be able to experience the recycling of materials that are not used at home or at school with their teachers.

✓ Organic waste in cafeterias and canteens will be turned into fertilizer with composting machines and plants will be grown in school gardens.

In this way, schools will be transformed into environmentally friendly schools where zero-waste culture is widespread. With the support of the Ministry of National Education, the administrators and teachers at these schools will receive continuous training on environmental awareness and climate change.

<http://bursa.meb.gov.tr/enerjyonetimi>



## IZMIR TO BE A PLASTIC WASTE-FREE CITY BY 2030



within the scope of the Action Plan prepared as a result of the analysis conducted in our pilot district Cesme." Emphasizing that they invested in the recycling sector as a metropolitan municipality for the first time in Türkiye, Soyer continued his words as follows: "We have the capacity to separate and recycle up to 420 tons of packaging waste per day at our IzDonusum Packaging Waste Collection and Sorting Facility.

We are currently serving four districts, Buca, Karabaglar, Karsiyaka and Narlidere. The 800 recycling bins will be placed in these four districts in August allow us to offer two options to Izmir residents: Throwing the waste in the garbage as in the past or bringing it together with our recycling bins.

If our citizens prefer the latter, our nature and public health will be protected."

Izmir joined WWF's Plastic Waste Free Cities Network, which includes 36 countries around the world. Thus, Izmir became the second city in the Mediterranean, after Nice, to pledge to eliminate its plastic waste by 2030. WWF's Mediterranean threatened The Blue Panda sailboat, which set off from France to draw attention to the problems of plastic waste, visited Çeşme, the pilot district of Izmir, a member of the WWF Plastic Waste-Free Cities Network, after Italy.

At the launch organized in Cesme within the scope of Blue Panda's visit,

Mayor Tunc Soyer announced the Action Plan, which includes how and with which activities the "Plastic Waste Free City" target will be realized.

Stating that they are working for a life in harmony with nature, Mr. Soyer said: "Our Plastic Waste-Free City Action Plan is a fundamental part of this goal. Two years ago, we became a member of WWF's Plastic Waste-Free Cities Network and started our efforts to make Izmir a 'waste-free' city by 2030. In this project, we significantly reduced the amount of plastic waste



## IZDONUSUM PACKAGING WASTE COLLECTION AND SORTING FACILITY OPENED

Izmir Metropolitan Municipality, which continues to work with the goal of a sustainable city, opened the IzDonusum Packaging Waste Collection and Sorting Facility established in Konak by IzDoga, a subsidiary of the municipality, with a ceremony attended by Republican People's Party Chairman Kemal Kilicdaroglu.

Republican People's Party Chairman Kemal Kilicdaroglu said, "The step taken by our Mayor Mr. Tunc is extremely valuable. I sincerely thank my Metropolitan Mayor. It is as a result of these efforts that Izmir received the European Prize."



## 91ST IIF AND TERRA MADRE ANATOLIA WERE ENTHUSIASTIC

Izmir International Fair, which bears important traces of Türkiye's commercial and cultural memory, opened its doors for the 91st time, while the international gastronomy fair Terra Madre Anatolia opened its doors for the first time in Türkiye.

The excitement of IIF and Terra Madre Anatolia first overflowed onto the streets of the city with a festival-like cortege. The enthusiastic cortege, attended by thousands of people, started from Gundogdu Square, proceeded along Plevne Boulevard and reached in front of Kulturpark Lozan Gate for the opening ceremony.

The opening ceremony hosted by Izmir Metropolitan Mayor Tunç Soyer and his wife Neptün Soyer was attended by Deputy Minister of Trade Rıza Tuna Turagay, Izmir Governor Yavuz Selim Kosger, General Vice President of the Saadet Partisi Serafettin Kilic, Deputy Chairman of the İyi Party Group Musavat Dervisoglu, CHP High Disciplinary Board Chairman and



Artvin Deputy Ugur Bayraktutan, 21. Period Minister of Labor and Social Security Yasar Okuyan, Slow Food International Secretary General Paolo Di Croce, Adana Metropolitan Mayor Zeydan Karalar and his wife Nuray Karalar, Izmir Provincial Police Chief Mehmet Sahne, Coast Guard Aegean Naval Region Commander Rear

Admiral Serkan Tezel, representatives of foreign missions provincial presidents and representatives of political parties, MPs, provincial and district mayors, municipal council members, representatives of non-governmental organizations, professional chambers, cooperatives and representatives of unions, mukhtars and citizens.

## "İZMİRLİ" BRAND FROM PASTURE AND FIELD TO EXPORT



392 exhibitors from 46 countries took part in Terra Madre Anadolu, an international gastronomy fair that opened its doors simultaneously with the 91st Izmir International Fair and was held in Izmir for the first time in Türkiye. 107 Slow Food stands were set up. The producers exhibiting local products from many regions were able to introduce their products to the whole world without intermediaries, which made the producers smile and made the city experience lively days.

The Mera İzmir project, implemented in line with Izmir Metropolitan Mayor Tunc Soyer's vision of "Another Agriculture is Possible", opened the door for small producers to become exporters. By

knocking on the doors of 4,658 shepherds one by one, the Metropolitan Municipality created Türkiye's first shepherd map and according to this map, it rolled up its sleeves for production by purchasing sheep and goat milk from producers at twice the market price. Izmir Metropolitan Municipality, which processes the milk it collects and transforms it into high value-added products under the "Izmirli" brand, has started production by processing the meat and herbal products it buys from producers under the same brand. These products, produced with the aim of providing export opportunities for small producers, were introduced for the first time at Terra Madre Anatolia,

the world's largest gastronomy fair held on September 2-11, 2022.

The "Izmirli" brand of Izmir Metropolitan Municipality IzTarim, which was introduced to the world at Terra Madre Anatolia Fair, attracted great interest from visitors and received full marks from those who tried the products. Murat Onkardesler, General Manager of IzTarim, stated that the first steps for export with the Izmirli brand were taken at Terra Madre Anadolu and said, "We will soon give the first good news of exports. We will send our first container before the end of this year."



## HISTORIC CELEBRATION ON THE 100TH ANNIVERSARY OF THE LIBERATION OF IZMIR

The most spectacular September 9 celebrations in history, organized by Izmir Metropolitan Municipality, started with the 100th Anniversary Victory March. The march, organized on the route used by the Turkish Army to enter Izmir on September 9, 1922, continued from Basmane Police Station to Cumhuriyet Square with the participation of thousands of people from Izmir. The Victory and Commemoration March group, which set off from Afyon Derecine, handed over to Mayor Tunc Soyer the Turkish flag they had carried for 400 kilometers.

After the march accompanied by the Izmir Metropolitan Municipality band, a representative flag ceremony was held in Konak Square. In the ceremony, cavalry units reenacting the liberation of Izmir arrived in front of the Izmir Government House and a soldier representing Captain Şerafettin hoisted the Turkish flag on the Government House. At the ceremony held in the Republic Square, Izmir Governor Yavuz Selim Kosger, Aegean Army and Garrison Commander General Kemal Yeni, Izmir Metropolitan Mayor Tunc Soyer presented wreaths



to the Ataturk Monument. Speaking at the ceremony held in the Republic Square, Mr. Tunc Soyer said, "The date of September 9th, when we experience the honor of being citizen of Izmir up to our every cell, is not only the liberation of a city. It is also the date of the day when an occupied, besieged country regained its freedom and independence. The rise of a nation and

the birth of our Republic took place 100 years ago today. For this reason, I always say 'Izmir is the face of hope,'" he said.

The events marking the 100th anniversary of the liberation of Izmir continued with all the enthusiasm in the air and on land. Thousands of citizen of Izmir admired the nearly one-hour air show of Turk Yildizlari (Turkish Stars) and Solo Turk (Solo Turkish). The skies over Izmir were also filled with the salute flight of General Aviation Aircraft and Izmir Clubs, Hurkus Demonstration Flight, Gendarmerie Steel Wings show, Police Aviation Grape Cluster, Coast Guard Search and Rescue and Flyboard show.

On September 9th, the 100th year of liberation enthusiasm peaked in the evening after the day-long activities. After the Fener Alayi (Lantern Procession) that started from Alsancak Harbor and ended at Gundogdu Square, Izmir residents turned Gordon into a field of poppies, so to speak.

When the clocks struck 21:00, one of the biggest stage shows ever staged in Türkiye began. With the participation of 180 dancers, one of the biggest stage shows ever staged in Türkiye, the interactive theatrical show, where the occupation and liberation were reenacted with augmented reality support, gave a visual feast to hundreds of thousands of people from Alsancak Harbor to Konak.





The show, in which a total of 1,300 square meters of led screens were used, was the largest production in the history of Türkiye in this regard.

The historic show, hosted by Izmir Metropolitan Mayor Tunc Soyer and his wife Neptun Soyer, was attended by the Chairman of Republican People's Party Kemal Kilicdaroglu and his wife Selvi Kilicdaroglu, CHP deputy chairmen, MPs, provincial and district mayors, heads and representatives of political parties, dignitaries, heads and representatives of non-governmental organizations, chambers, associations, artists and journalists.

Addressing Izmir residents, Mayor of Izmir Metropolitan Municipality Tunc Soyer said, "As our memory refreshes, our loyalty and responsibility to this homeland increases. With the awareness of this responsibility, now it is our turn! Just as a century ago, the great offensive that started with cannon fire at 05:30 in the morning on August 26th, was crowned with a great victory and an uninterrupted peace that has lasted for 100 years, it is now up to us to crown that republic with peace and democracy."

Tarkan said, "Izmir residents, what a great mayor you have. It is really nice for me to be here. It is a great honor to share this enthusiasm with you on such a meaningful day. Thank you Izmir. I am glad we met. I really feel great," he said. Tarkan also said, "I think this is the

most crowded concert in my 30 years of career. I think we broke the record. Thank you very much Izmir. I love you very much," he said. In addition to his songs, Tarkan also sang the Izmir Anthem with hundreds of thousands of citizens of Izmir.



## UCLG'S INTERNATIONAL AWARD TO IZMIR FOR "CRISIS MUNICIPALISM"

Izmir Metropolitan Mayor Tunc Soyer's "Crisis Municipalism" practices during the pandemic were crowned with an international award. The Metropolitan Municipality's efforts to keep culture and arts alive in the city despite the restrictive conditions during the pandemic brought the International United Cities and Local Governments World Organization (UCLG) Culture 21 Honorable Mention Award.

The International Culture 21 Awards organized by UCLG for the fifth time this year are given to cities that develop good practices for the promotion and dissemination of culture, which is considered as the fourth pillar of sustainable development. Cities that receive the award increase their international cultural visibility and cultural communication with other municipalities.

The applications for the award given by the UCLG Culture Committee were evaluated by a jury team with expertise in the field of culture and arts. Izmir from Türkiye received the International UCLG Award-Culture 21 Honorable Mention Award, to which more than 100 world cities applied.



## İZMİR RECEIVES THE 2022 EUROPE PRIZE



Izmir, which was selected by the Parliamentary Assembly of the Council of Europe (PACE) as the city that best represents European values and was awarded the 2022 Europe Prize, has received its statuette symbolizing the

award. Izmir Metropolitan Municipality applied for the award on behalf of the city and the award was given to Izmir Metropolitan Mayor Tunc Soyer. CHP President Kemal Kilicdaroglu also attended the night of pride.

At the award ceremony held in Smyrna Ancient Agora, Mayor of Izmir Metropolitan Municipality Tunc Soyer said, "I accept this award on behalf of 4.5 million citizens of Izmir whose hearts beat for unity in plurality. I entrust this award to the beautiful children and young people of beautiful Izmir."

Carmen Leyte, Chair of the PACE European Prize Subcommittee, said: "I would like to congratulate Tunc Soyer, Mayor of Izmir, and all those who have contributed to this award. We are here to present this award, the highest and most unique award given to municipalities. The Mayor of Izmir, Tunç Soyer, has been working consistently in the city. This award, rightly given to you today by the Council of Europe, marks a culmination in the city's history. You have also honored Türkiye. This award is a lasting result of the multiple dynamics that have been permanently embedded in our city over the years, both in the public and private spheres. It is also based on mutual learning with other countries and cultures, and respect for the environment and human rights. Izmir now has 24 sister cities around the world."



### President Soyer attended the ceremony organized for veterans



Izmir Metropolitan Mayor Tunc Soyer attended the ceremony organized in Cumhuriyet Square for Veterans Day.

### Kemeraltı's UNESCO dream comes true



Izmir Metropolitan Municipality Mayor Tunc Soyer informed Izmir Metropolitan Municipality council members about the process of Izmir Historic Port City, which was included in the UNESCO World Heritage Tentative List in 2020 and final preparations are being made for it to be included in the permanent list.

### The champion brothers became Izmiris



Izmir Metropolitan Municipality Youth and Sports Club transferred Senior European Champion Kerem Kamal and his Junior European Champion brother Kadir Kamal.

### Honorary award to Mayor Soyer for his support to art



Izmir Metropolitan Municipality Mayor Tunc Soyer was awarded an honorary award at the 15th Turkish Theater Meeting held in Foca this year for his support to the arts and for pioneering the re-establishment of the City Theaters. Deputy Mayor Mustafa Ozulu received the award on behalf of Mayor Tunc Soyer.

### Awareness action against violence by PERGEL member women



Members of Izmir Metropolitan Municipality's (PERGEL) project for women employees came together to react to violence against women and femicides.

### Exemplary Urban Transformation Begins in Gaziemir



In line with Izmir Metropolitan Mayor Tunc Soyer's vision of a resilient city; the Metropolitan Municipality, which accelerated the process by including IZBETON and cooperatives in urban transformation projects, laid the foundation of the first phase in Gaziemir Aktepe Emrez Urban Transformation Area.

### Flamingos mesmerize Izmir residents



With the "Flamingo Yolu" (Flamingo Road) project carried out by Izmir Metropolitan Municipality's company IzDoga, Izmir residents can observe the bird species in the Gediz Delta both by sea and land. "Participants are mesmerized by the beauty they see," said tour guide Goker Yarkin Yarasi.

### Two new stations are being built on the IZBAN line



Two more stations are being built to IZBAN, one of the important links of the urban rail system in Izmir. Izmir Metropolitan Municipality will bring Lale stations to Konak district and Katip Celebi stations to Cigli district to facilitate passengers' access to IZBAN.

### Soyer: "This fair will be the soul of the sector"



Organized for the first time by IZFAS and hosted by Izmir Metropolitan Municipality, Logistech-Logistics, opened the door for the Storage and Technologies Fair. Stating that he is very happy and excited about the interest shown in the fair, Izmir Metropolitan Mayor Tunc Soyer said that the fair will revitalize the sector.

### Signed support from Mayor Soyer for the fight against the climate crisis



Genc Iklim (Young Climate) activists, who continue their work across the country to draw attention to the climate crisis, visited Izmir Metropolitan Mayor Tunc Soyer. Mayor Tunc Soyer also supported the signature campaign launched by the activists for central and local governments to declare a climate emergency.


 IZMİR  
METROPOLITAN  
MUNICIPALITY

## We Celebrated August 30th with Enthusiasm



As Izenergy employees, we participated in the concert hosted by our Metropolitan Municipality within the scope of the August 30 Victory Day, where the Great Offensive led by our Great Leader Mustafa Kemal Atatürk achieved success.

## Izenergy Employees Say No to Asbestos Ship

As part of the struggle against the planned dismantling of the giant Brazilian asbestos aircraft carrier Nae Sao Paulo in Aliaga, we attended the Mogollar Concert hosted by Izmir Metropolitan Municipality as Izenergy employees. Together we said no to the asbestos ship entering our city.



## We Attended "Why Einstein Died" Interview



As Izenergy employees, we participated in the conversation on 'Why Einstein Died' organized by Prof. Dr. Oguz DİCLE. We had a conversation with our professor on health with stories.

## BURSA GOVERNORSHIP ENERGY MANAGEMENT UNIT VISIT

Ali Ercan Turkoglu, Chairman of the Board of Directors of IZENERGY INC., paid a visit to the Bursa Governorship Energy Management Unit. Mr. Levent Yazici, Energy Manager, explained the energy efficiency and renewable energy systems activities carried out by the Energy Management Unit.

Levent Yazici stated that the "Energy Efficiency Portal (EVEP)" project, which was initiated throughout the province of Bursa, is now available to other provinces of our country. He also said, "The Energy Efficiency Portal used in public buildings has water, natural gas, electricity, building and zero waste modules. With the Energy

Efficiency Portal, details such as institutional information, building information, payment orders, subscriber information, consumption data, invoices, debt and delay fees of public buildings can be examined on a single platform."

Accordingly, Ali Ercan Turkoglu, Chairman of the Board of Directors, stated that we will take action as IZENERGY INC. to ensure the use of the Energy Efficiency Portal in Izmir, and that the Energy Efficiency Portal will contribute to Izmir's Climate Neutral and Smart Cities Mission process.



## A CAREER DEVELOPMENT STORY: PRICELESS LESSONS OF EXPERIENCE AND KNOWLEDGE



IZENERGY hosted an important event on 22.09.2022 to support the development of its employees who have just started their career journey. Bercin Goksen, EU Projects Officer, shared her impressions, achievements and experience about her first year in corporate life and her first year at IZENERGY, and many university students and high school students who are members of Genc Izmir participated in the event. A Career Development Story: The Priceless Lessons of Experience and Knowledge, Bercin Goksen shared the difficulties she faced for a year, the solutions she sought and the gains she achieved. She also gave a presentation on Compassionate Communication Methods to be used in professional life. After the event, IMM President Advisor Ahmet Altan, Head Doctor of

Esrefpasa Hospital Kadir Devrim DEMIREL, BEST FOR Energy Project Coordinator Ekin Taskin shared their opinions on the event. It was stated how important it is to support the development of new employees in business life and that IZENERGY has taken an exemplary step with this event. In the final speech of the event, Ercan Turkoglu, Chairman of the Board of Directors of IZENERGY, stated that the development shown by Bercin Goksen, EU Projects Officer, is just an example, that their staff have experienced a very rapid learning and development process in a short time, and that they are always ready to support this process. At the end of the event, Celal Ergin, General Manager of İzenerji, and Ercan Turkoglu, Chairman of the Board of Directors, presented flowers to Bercin Goksen and ended the event with a beautiful memory.

## TRADE AND PROCUREMENT DIRECTORATE

Since 2002, as Izenergy Inc. family, we have been meeting the demands for goods and services needed by the entire Izenergy family with our increasing number of staff and units in the most accurate way as the Trade and Purchasing Directorate in accordance with the Public Procurement Law No. 4734 and the relevant regulations.

Our priority is to complete the procurement processes of the goods and services needed as the Trade and Purchasing Directorate at the right time, at the right price and from the right suppliers at optimum cost.

We must continuously develop strategies that include quality, cost and performance titles. Because procurement management requires the ability to manage quality, cost, and time. Since purchasing transactions are carried out within the scope of laws and regulations, as the Purchasing Department, we work to manage purchasing processes more accurately by following daily legislation from certain external sources and participating in training.

In conclusion, we can say that we are proud to be a part of Izenergy a company affiliated to Izmir Metropolitan Municipality, and we are happy to fulfill all our duties and responsibilities in a proper, solid and reliable manner.

## IZENERGY INC. EMPLOYEES/Field



Zahide GOZE

In 2017, I joined the family of IZENERGY INC. I work as a sweeper worker in the Department of Solid Waste. As I receive positive reactions from our citizens while doing my job on the streets and avenues, I am once again proud of my work by being more devoted and embracing my job. I am proud and lucky to have female employees from every profession and to be a staff member of Izmir Metropolitan Municipality, which prioritizes women's employment. I hope that we will continue to work together with the Izenergy family FOR A CLEAN IZMIR during this period. I would like to thank Mr. Mayor Tunc SOYER endlessly.



Ender GUNDUZ

I was born on 24.10.1975 in Nigde. I am married with 3 children. I graduated from high school and completed my high school education at Nigde Bor Industrial Vocational High School. I worked at Dimes fruit juice from 2007 to 2017. In 2019, I started working at the Department of Parks and Gardens within Izenergy. I work as a garden maintenance worker. I am aware of my responsibility for Izmir, the city where I live. I make my best efforts for a greener Izmir. I would like to pay my respects and gratitude to the Izenergy family and my friends for providing us with this opportunity.



Kerim KARATAS

I started working at Izmir Metropolitan Municipality Izenergy Inc. I started working on 18.11.2019 and worked as a sweeper worker for about 2 years in the Solid Waste and Supply Branch Directorate. I am currently working as a floor sweeper and construction equipment operator. I am happy to work in such a great institution. I wish all my colleagues continued success.



Aykut TURGUC

In 2019, I joined the IZENERGY family. I am currently working under the Waste Transfer Management Directorate Waste Transfers and Supply Branch Directorate. When I first started working, I was working as a sweeper and sweeper in the Alsancak Kordon area. I enjoyed working very much, one of my biggest wishes was to become an operator. I realized this wish in a short

time. I am very happy, peaceful and have many more years ahead of me. I am grateful to the Izmir Metropolitan Municipality and I am very proud.



Yazgi BILEN

In 2019, I joined the Izenergy Inc. family. I work as a sweeper worker in the Solid Waste Department. As I receive positive reactions from our citizens while doing my job on the streets and avenues, I am once again proud of the work I do by being more devoted and embracing my job. I am proud and feel lucky to have female employees from every profession and to be a staff member of Izmir

Metropolitan Municipality, which prioritizes women's employment. I hope that we will continue to work together in the Izenerji family for a CLEAN IZMIR.



Ozcan OZTURK

Since 01/10/2013, I have been working in the Evaluation Directorate of IMM Climate Change and Zero Waste Management Department. I worked in Karsiyaka Department of Park and Gardens with a temporary assignment for 1 year when I started my job. At the end of 1 year, I continued to work as a truck assistant in the Waste Transfers Directorate, which is

my main unit, and then I worked in the tea room of the department for about 7 years with the assignment of my superiors. I have been working as a driver at the Harmandalı Landfill Site of the Assessment Directorate for a year. Thank God, I have loved my job until now, and I have always tried to be a problem solver, not a problem creator. My teammates and I are in the same boat, our duties are clear, our work is clear. I do the tasks given under the control of our supervisors. I am glad I work in IMM. I am glad I am in the Izenergy family... Thanks and greetings to everyone, wishing to work healthy and peaceful for many years...



Ali KINA

Hello, I am Ali Kına. I was born on 23.06.1975 in Manisa-Alasehir. I am married and have one child. I worked at Karsiyaka Municipality Kent Inc. for 10 years. I joined the Izenerji family in 2011. I first started working as a painter at the Department of Public Works. Now I work as a truck assistant at the Waste Transfer Department. I love my job. I am happy to be a member of the

Izenergy family. I would like to thank Izmir Metropolitan Municipality and Izenerji management for giving us this opportunity. Best regards.



Haydar ULUSOY

I was Born on 22.10.1981 in Izmir, graduated from high school. I completed my high school education at Sehit Fethi Bey High School. I am married and have one child. I joined the Izenergy family on 01.01.2011. I am currently working as a distribution personnel in the Soup Kitchen Branch Directorate and I am also the chief representative in this directorate. I make every effort

to provide the best service for Izmir, the city where I grew up. I would like to thank the Izenergy family and my colleagues for providing us with this opportunity.



Cihan ERDOGMUS

I joined the Izenergy Inc. family on 1.1.2011, I have been working in the Green Area Department and I also serve as the Disciplinary Board Manager in Branch No. 2 of the Discipline Committee affiliated to the General Labor Union. As the entire Izenergy family, we are struggling to increase the livelihood of the employees of the Izenerji family. I would like to thank the general manager

and the board of directors of our company for their sensitivity in the collective bargaining agreement. In this difficult process that our country and the whole world are going through, I see that I am lucky to be able to work and bring home the bread while many people are unemployed. We will continue to work together in the Izmir Metropolitan Municipality Izenergy family.

## IZENERGY INC. EMPLOYEES/General Management



**Necati Cem KANDEMİR**

I was born in 1997 in Karsiyaka/İzmir. I graduated from Milli Piyango Anatolian High School and started my undergraduate education at Celal Bayar University. I graduated from Industrial Engineering by completing my internship at Izenergy Inc., which started at Zehnder Group. In my internships, I learned to work in a coordinated manner by contributing to teamwork. In 2022, I started my working life with the title of Industrial Engineer at Izenergy Inc. Total Quality Management Systems Directorate. I continue to work on the implementation of management systems in our company. I also serve on the Editorial Board of our company and contribute to the meeting of our magazine with our valuable readers. I am proud and happy to be at Izenergy Inc. and to serve our Izmir.



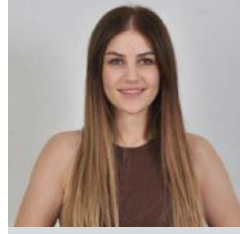
**Hasan ZUMBUL**

Hello, I was born in Manisa in 1981. I am married and have two children. I graduated from Izmir Semikler High School. I worked as a driver at the Special Education and Rehabilitation Center for 10 years. 1 year ago, I started working as a driver at Izenerji under the Directorate of Administrative Affairs. I am proud and happy to be a part of Izmir Metropolitan Municipality and to work in the Izenergy family. With love and respect



**Arda BICIL**

I was born in 1987 in Izmir, I am married with two children. I graduated from Dokuz Eylül University, Faculty of Engineering, Department of Environmental Engineering in 2010. After graduation, I worked as a project engineer in the swimming pool sector for about a year and a half. In 2013, I received an occupational safety specialist certificate and worked as an occupational safety specialist in hospitals, schools and housing projects between 2013-2019. During this period, I completed my master's degree at Karadeniz Technical University Occupational Health and Safety Department. I have been working at Izenergy Inc. since August 2019 and I am happy to serve Izmir as a member of this family.



**Duygu BOZKURT**

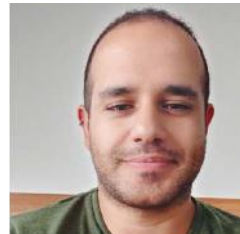
Hello, I was born in Izmir in 1994. I graduated from Suleyman Demirel University, Department of Energy Systems Engineering. Within the scope of the university graduation project, I worked on Electric Vehicle Production supported by TUBITAK. I started my professional life as an Energy Engineer at Izenergy Inc. Energy Services Directorate in August 2021. I am working on renewable energy projects such as solar, wind, hydroelectricity, and geothermal in the strategic plans and programs of our IMM institutions. At the same time, I was involved in Quality Management Systems studies in the Quality Directorate of our company. I am proud and happy to work peacefully in the Izenergy family and to serve our Izmir. With love.



**Irem Ilke GUVEN**

I was born in 1988 in Izmir. Since 2013, I have been working as an occupational safety specialist at Izenergy Inc. General Directorate. I completed my undergraduate education as an industrial engineer, where I laid the foundations of my career, and completed the master's program with a thesis in Occupational Health and Safety, and I continue the work I do today by improving myself

both in field experience and academically. While trying to provide an efficient service as an Industrial Engineer, I reflect on the importance of protecting human life as an occupational safety specialist. I am very happy to be a member of an organization with the principle of lifelong and sustainable development in the light of my education and professional experience by fulfilling my legally required duties at Izenergy Inc.



**Ismail Can TUZUN**

I was born in 1995 in Adana, graduated from Ordu Basogretmen Anatolian High School and I continue my university education. As of September 2021, I joined the Izenergy family. I am currently responsible for distributing the work clothes of our staff working in various positions as a distribution officer in the active warehouse. Like our other colleagues, we aim to do

our duty in the best way and deliver the clothes they will wear to our staff on time and completely. I am happy to work at Izenergy and to contribute to our Izmir.

“We opened the 91st Izmir International Fair and Terra Madre Anatolia with great enthusiasm.”

**Tunc SOYER**  
Mayor of Izmir Metropolitan Municipality



“

*Hope is a flower that grows in this city without ever running out.*

*100 years ago, this city spread good news to Anatolia and today it is again the leading locomotive of the Türkiye of the future.*

*When we hope together, there is no victory we cannot win. I am glad we are here;*

*I am glad you are here.*”

**Tunc SOYER**

Mayor of Izmir Metropolitan Municipality



L'Agora Old Town Hotel - Kemeralti / KONAK



**İZMİR  
METROPOLITAN  
MUNICIPALITY**

[www.izmir.bel.tr](http://www.izmir.bel.tr)