

*“We will defend September 9th,
and Izmir to our last breath!”*

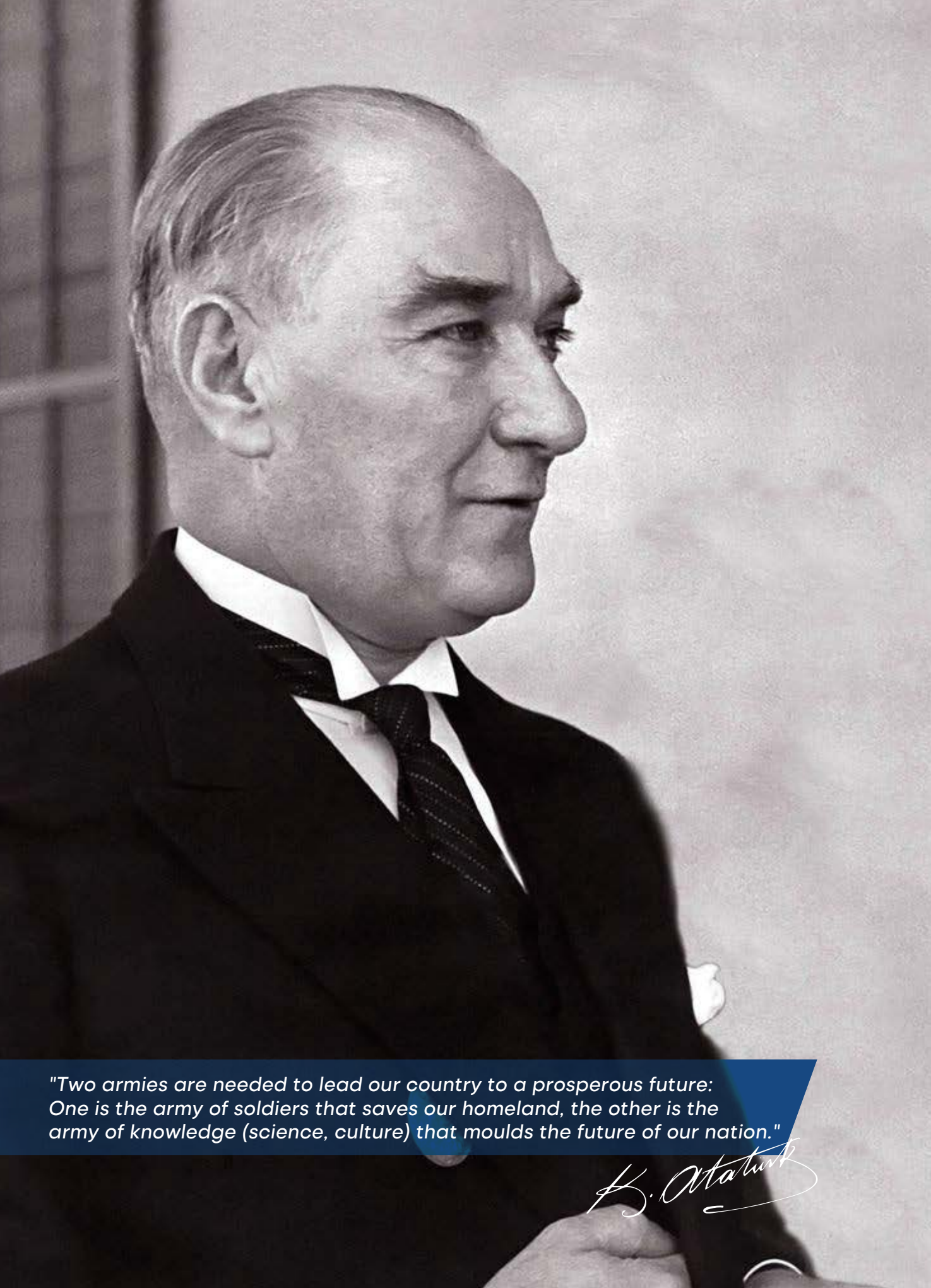
Tunc SOYER

Mayor of Izmir Metropolitan Municipality

Renewable Energy Studies and Solar Power Plants in the Shadow of Changing Climate
Omer KOC - CEO, Ozenergy Inc.

Accelerating Energy Transition
Osman HISARCIKLIOGLU - Department Manager, Bureau Veritas Renewable Energy

Digital Transformation and Intelligent Transport Systems in Izmir
Kadir Efe ORUC - Head of IMM Transport Department



"Two armies are needed to lead our country to a prosperous future: One is the army of soldiers that saves our homeland, the other is the army of knowledge (science, culture) that moulds the future of our nation."

K. Atatürk

Tunc SOYER

Mayor of Izmir Metropolitan Municipality

“Youth: The Pioneers of Today”



Distinguished people of Izmir,

September has always been a special month for Izmir. In this month, we not only celebrate a historical day in our city's past, but also the liberation of an entire country from occupation. September 9th is the symbol of our absolute independence.

This year, the month of September again made us feel this way with the same excitement. Celebrating its 101st anniversary, the Liberation Day of Izmir is a legacy left to us by our Great Leader Mustafa Kemal and our heroic ancestors... We carry this legacy with pride and celebrate it with great enthusiasm.

Izmir is one of the most important port cities of the Mediterranean with its 8500 years of history and its ancient culture. These lands have created values that have been the symbol of democracy and peace for centuries.

Izmir International Fair, one of the events that best reflects this profoundness, is organised under the theme of "Youth: The Pioneers of Today" theme, opened its doors for the 92nd time with great enthusiasm. The energy brought by our fair in many fields from business world to art, education to technology once again reveals the global vision of Izmir.

I am happy that the odour problem in the gulf is now a distant memory. This is of course not a coincidence. The efforts we have been making for four years to make the gulf swimmable again have now begun to bear fruit. When Phase 4 of the Cigli Wastewater Treatment Plant, the construction of which we have recently started, is completed, the water quality of Izmir Gulf will be much better.

We are maintaining our efforts to make Izmir a metropolis in harmony with its nature. We are transforming our city into a safe and peaceful living space with its new green areas and modern infrastructure. We are building not only our present but also our future together on this path we are walking with the participation, common mind, and conscience of the people of Izmir.

Distinguished people of Izmir, With the enthusiasm and excitement of September, I sincerely believe that we will further increase the prosperity in Izmir and share it fairly. I would like to thank you all for your efforts in this endeavour.

With all due love and respect,

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Type of Publication
Periodicals - E-Magazine

Language of Publication
Turkish - English

Period of Publication
October/November 2023

Website
www.izenerji.com.tr

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Chairman of the Board of
Directors of IZENERGY INC.



Distinguished people of Izmir,

We are pleased to bring you the 14th issue of IZENERGY, the sectoral magazine of our company.

Izmir Metropolitan Municipality continues to take important steps to make Izmir a greener, liveable, and sustainable city, celebrating the 101st anniversary of its liberation. In this issue, we focus on the environmentally friendly projects prepared by IMM for Izmir.

As in every issue, we continue to include all stakeholders of the city in our magazine. We endeavour to include academicians who work on our fields of activity, politicians who develop policies, occupational chambers, NGOs, and other stakeholders.

In this issue, we include the articles of our stakeholders in our Voice of the Industry section. We present the articles "Renewable Energy Studies and Solar Power Plants in the Shadow of Changing Climates" by Omer Koc, Chairman of the Board of Ozenergy Inc. and "Accelerating the Energy Transition" by Osman Hisarciklioglu, Renewable Energy Department Manager of Bureau Veritas.

In this issue, we continue with the chapters of IMM's Sustainable Energy

and Climate Action Plan, which aims to reduce Izmir's energy consumption, promote the transition to renewable energy sources and tackle climate change, the Green City Action Plan, which aims to increase the city's green areas, develop parks and gardens and establish environmentally friendly transport systems, Izmir's Strategy for Living in Harmony with Nature, which aims to protect Izmir's natural resources, support biodiversity and promote sustainable agricultural practices, the Plastic Waste-Free City Action Plan, which aims to find a solution to Izmir's plastic waste problem and reduce plastic consumption.

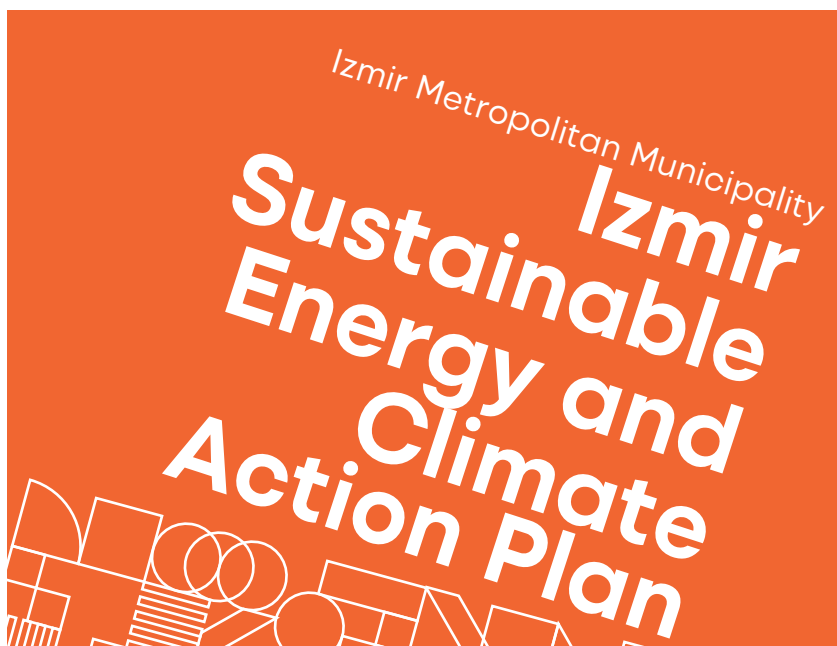
In this issue, we also present a speech by Kadir Efe Oruc, Head of Izmir Metropolitan Municipality's Transport Department. Kadir Efe Oruc's article "Digital Transformation in Transport and Intelligent Transport Systems in Izmir" and Climate Neutral and Smart Cities Mission City Consultants Ed

Synnott and Deniz Celik Bulgurlu's articles titled "NetZeroCities and Izmir's Transformation" are also included in this 14th issue.

We witnessed very important developments and events in August and September. As we approach the 100th anniversary of our Republic, we took part in the 92nd Izmir International Fair and the European Mobility Week with our Izenergy Inc. stand and presented GCC Izmir to the participants. In addition, two meetings of the GCC Izmir Steering Committee were held. In the meeting, which was very well attended, our stakeholders shared their goodwill and support for Izmir to reach its climate-neutral target by 2030.

The 14th issue of our magazine is full and has titles that raise our hopes for the future. We are proud to be able to convey these valuable articles to our esteemed readers.

We hope to meet you in the next issue and wish you clean, sunny, bright, and healthy days...



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

The greenhouse gas emissions of Izmir province in 2018 increased by 15% compared to 2014. The highest increase was in fuel consumption for electricity generation (93%), followed by agriculture, livestock, and manure management (67%) and transport (34%). The consumption of private vehicles, including the logistics sector as well as passenger cars, increased by 43%. Some of the increase in total emissions can be explained by an increase in the electricity emission factor, which is calculated on an annual basis using the national energy portfolio (Izmir city emissions increased

by 15% in 2018 compared to 2014) and other changes in global warming potential (global warming potential based on the IPCC 5 assessment report), which affected emissions from agriculture, livestock and animal manure by more than 10%.

However, specifically excluding some sources/sectors is important to ensure consistency in the Presidents' Convention approach and to avoid erroneous approaches such as double counting. Urban GHG emissions (excluding industry and civil aviation) including all energy consumption and emission sources within geographical and administrative boundaries were calculated as 14,319,706 tCO₂e for 2018. Detailed breakdown is given in Table 29. The data is divided into sub-sectors in line with the Guidelines of the Convention of Mayors. It will help to identify key mitigation areas and facilities and decision-making mechanisms when preparing an action plan.

As a result of this assessment, it is seen that buildings, which constitute the largest source of emissions, account for approximately 42% of all emissions (Table 29). In this sector, housing accounts for 60% of emissions from buildings (or 25% of total emissions). The transport sector is the second largest emission source with a share of 37%. Waste and wastewater emissions account for about 5 per cent of the total, while the share of agriculture and animal husbandry is approximately 16%.

Table 28: Comparison of 2014 and 2018 emissions

Sector / tCO ₂ e	2014	2018	% of Change
Buildings	4.510.983	6.019.632	%33,44
Industry	9.187.597	7.860.319	-%14,45
Transport	4.309.141	5.780.293	%34,14
Solid waste	506.704	595.316	%17,49
Wastewater	112.021	96.141	-%14,18
Industrial Process Emissions + Leakages	1.355.517	1.519.992	%12,13
Agriculture, Livestock and Manure management	1.236.548	2.059.089	%66,52
Irrigation	166.058	195.069	%17,47
Fuel consumption for electricity generation	484.778	936.717	%93,23
Total	21.869.346	25.062.569	%14,60

The shares of buildings and transport, which are the most dominant sectors in the inventory, are 42% and 37%, respectively. Considering that the population increased by only 5% between 2014-2018, it is conceivable that there are other factors contributing to this change. The increased jurisdiction of the municipality has required the provision of more municipal services in the metropolitan area, which has had a significant impact on the increase in IMM institutional emissions. As mentioned earlier, the changes introduced by the Law on Metropolitan Municipalities have not only increased the administrative area of IMM (by increasing the number of districts to 30 and adding more than 500 villages that are now urban neighbourhoods) but also urbanised rural towns and villages. The effects of these changes will be more fully felt in the future.

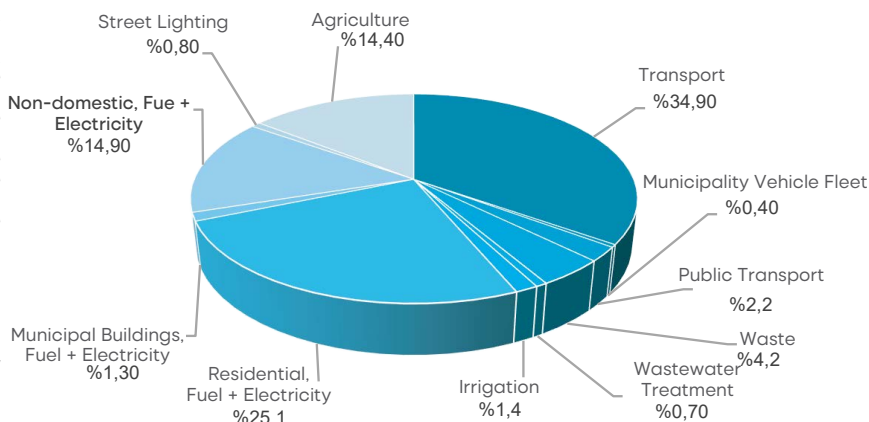


Figure 23: Emission Inventory (excluding industry and civil aviation)

Table 29: Izmir Greenhouse Gas Inventory 2018 (excluding industry and civil aviation)

Sector	MWh	tCO ₂ e	%
Izmir Total	36.572.611	14.319.706	%100
Buildings, Equipment/Facilities	16.165.794	6.019.632	%42,0
Municipality Buildings/Facilities	403.894	181.289	%1,3
Non-Residential Buildings/Facilities - Non-Municipal	4.808.950	2.128.887	%14,9
Housing	10.722.856	3.592.798	%25,1
Lighting	230.094	116.658	%0,8
Transport	20.022.065	5.354.459	%37,4
Municipality Vehicle Fleet	193.836	52.492	%0,4
Public transport (municipal buses)	683.162	185.137	%1,3
Public Transport (Electric Systems)	150.716	76.413	%0,5
Other vehicles (private, other public, etc.)	18.819.286	4.992.974	%34,9
Transit - Bus Station	175.066	47.443	%0,3
Other Emissions	384.752	2.945.615	%20,6
Waste Management	-	595.316	%4,2
Wastewater Treatment	-	96.141	%0,7
Wastewater Treatment Process CH ₄	-	19.558	%0,1
Wastewater Treatment Process CO ₂	-	47.128	%0,3
Wastewater Treatment Process N ₂ O	-	8.555	%0,1
Wastewater Treatment Process without Nit. /Denite	-	134	%0,0
Wastewater Discharge N ₂ O	-	20.766	%0,1
Agriculture, Livestock and Manure Management	-	2.059.089	%14,4
Irrigation	384.752	195.069	%1,4

4.3.Target

With the aim of reducing emissions per capita by 40% in the base year 2018, Izmir SECAP provides a roadmap for reducing emissions, derived from energy consumption data across different sectors and validated with the participation of urban stakeholders.

As of 2018, Izmir's greenhouse gas emissions totalled 14,319,706 tCO₂e per year. Under the business-as-usual scenario (BAU), Izmir's GHG emissions in 2030 will be 17,691,125 tCO₂e per annum (Figure 24). Projections are made using the different assumptions described in Section 2.2.

The urban growth rate of Türkiye is qualitatively and quantitatively similar to that of developing countries rather than industrialised countries. Since it is not possible to refer to absolute emission reductions at these growth rates, it would be appropriate to express emission reduction targets as emissions per capita. If business as usual (BAU), emissions per capita would increase from 3.31 tCO₂e currently to 3.51 (6 per cent increase) in 2030. After the proposed mitigation actions, GHG emissions in 2030 will be 9,973,640 tCO₂e (excluding industry and civil aviation) and 1.98 tCO₂e per capita. a 40 per cent reduction will be achieved.

Existing plans and strategies such as UPI 2030 (Izmir Transport Master Plan), Izmir Integrated Solid Waste Management Plan and IMM Strategic Plan 2020-2024 are all aligned with the mitigation actions proposed in the SECAP. There are also bold actions to achieve the 40% reduction target, such as the introduction of large amounts of solar energy in buildings planned after 2025.

The reduction in energy consumption and emissions after mitigation actions can be seen in Table 30. If necessary, measures are taken, 7.7 million tCO₂e can be reduced from a total of 17.7 million tCO₂e greenhouse gas emissions.

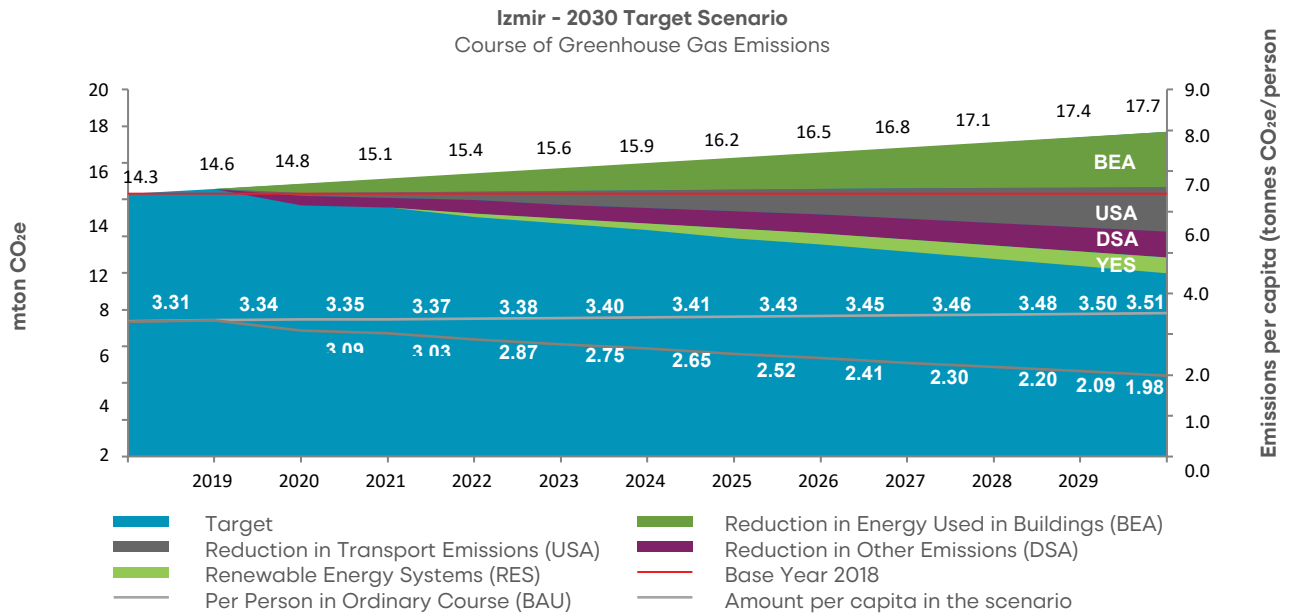


Figure 24: Izmir Target Scenario, 2030

Table 30: Results of mitigation actions by sector

Sector	MWH reduction in 2030	Tonnes CO ₂ e reduction in 2030
Reduction in emissions from buildings	7,860,496	3,019,384
Reduction in emissions from transport	14,507,438	2,432,813
Reduction in other emissions	97,592	1,390,206
Renewable energy systems	1,726,000	875,082
Total	24,191,526	7,717,485

5. SECAP Actions in Izmir

Chapter 5 of the SECAP, after analysing the available information, moves on to what actions can be taken in different sectors to reduce emissions and increase resilience.

In this chapter, actions are divided into two categories, "mitigation" and "adaptation", and both categories are divided into relevant sectors. For each mitigation and adaptation action, a detailed "Case Study" has been prepared individually, including the information required in the CoM reporting template. Each action has also been aligned with the IMM Strategic Plan 2020-2024 Objectives, which include the municipality's specific objectives for the years between 2020 and 2024.

The full list of SECAP specific actions and the full list of GCAP actions can be found in Annexes F, G H, and I respectively. The total number of adaptation and mitigation actions in this SECAP is **58**. Of these, **14** are SECAP-specific actions, **44** are also included in the GCAP, and for **25** of these actions, a joint Due Diligence Review has been prepared for the SECAP and the GCAP.

All the detailed due diligence reviews that are common to the GCAP are coloured in **green**. SECAP specific actions are coloured in **blue**.

The actions within SECAP have been developed in co-operation with IMM and various stakeholders in coordination with Izmir GCAP and EBRD but are still proposals at this stage. Whilst some of these actions can be implemented in a short period of time, many actions will require detailed feasibility studies, funding, or regulatory approvals before they can be implemented.

Types of actions

The actions under SECAP are categorised into the following categories:

•Plans and strategies: Provide a more detailed roadmap for improving performance in a specific sector or region (e.g., Climate Action Plan).

•Behavioural measures: Measures that seek to shift a community's behaviour in a specifically targeted direction (e.g., towards greater use of public transport). Although policy measures may have a behavioural component, actions in this category focus specifically on behaviour change, such as the organisation of awareness campaigns.

•Training: Actions aimed at capacity building through information exchange.

•Sanctions: Measures that seek to improve compliance with policies and regulations through monitoring and, where necessary, penalties.

Each action created for SECAP and GCAP projects has been given a tag according to the sector to which they relate. The tags of SECAP-specific actions have been created as follows:

Action Tag

The action tags were created when the first long list of actions was prepared and then the same tags were used throughout the prioritisation and stakeholder engagement process. As a result, the action tags presented in this final report are not consecutively numbered; the action tags were not changed after the prioritisation exercise for administrative convenience and to be able to follow the actions through the prioritisation process if necessary.

The common actions in both GCAP and SECAP are labelled as follows.

Table 31: Identification of the Specific Action within SECAP

SECAP Sectors	Abbreviation in Tags
Reduction	
Buildings	SECAP B
Compliance	
Agriculture & Forestry	SECAP AF
Healthcare	SECAP H

Table 32: Action tags of common actions in GCAP and SECAP by sectors.

Sector	Abbreviation in Tags
Buildings	B
Energy	ES
Industry	I
Land use	LU
Waste	SW
Transport	T
Water Management	WCM
Healthcare	PH
Governance	AOS



The European Bank for Reconstruction and Development (EBRD) provided a grant of €300,000 to Izmir for the first time in Türkiye for the preparation of 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 units, public institutions, non-governmental organisations, universities, and occupational chambers and approved by the parliament on 16 December 2020. The below information is a verbatim excerpt from the Izmir Green City Action Plan:

IMM Strategic Plan 2020-2024 Targets Related to Action

IMM Strategic Plan 2020 - 2024 includes targets for moving towards clean energy and raising awareness of the municipality and the public about clean energy. The plan also targets a low emission measurement region to be projected every year between 2020 and 2024.

Table 19: IMM Strategic Plan 2020-2024 Targets addressed in this group

Strategic Title	Strategic Objective	Strategic Target
Nature - Climate Action	5. To Make Izmir One of the Exemplary Cities in the World for Living in Harmony with Nature	5.2 Action will be taken in all areas, especially in agriculture and energy, to adapt to climate change and its impacts
Experiential Learning - Institutional Capacity - Institutional Resource Management	6. To Make Izmir One of the Leading Points of Experiential Learning in the World and Create an Urban Climate Where Innovative Ideas Emerge	6.2 Institutional Capacity and Functioning Will Be Made More Effective, Economic and Efficient

Table 20: Priority Environmental Challenges

Status Indicator	Priority Environmental Challenge
Greenhouse Gas Emissions	Since building licences and occupancy certificates are issued by district municipalities, IMM's authority over the building sector is limited.
Greenhouse Gas	Knowing the age and current condition of buildings is an important reference point for setting emission reduction targets, but there is limited information available.
Soil Quality	In Izmir, waste is not separated and recycled properly before being disposed of in landfill sites. To comply with EU requirements, all solid waste should be treated or recycled before being sent directly to landfill and only non- recyclable waste should be sent to landfill.

The strategic goals and objectives listed on the side are selected from the IMM Strategic Plan 2020 - 2024 and are actions to establish a municipality-wide participatory approach to climate change and incentivise stakeholders to mitigate the impacts of climate change and implement sustainable practices³⁶.

Priority Environmental Challenges Addressed

The following key findings from this study were presented at the Challenge Prioritisation Workshop. The workshop sought the views of Technical Committee members and stakeholders to validate these findings and prioritise the challenges. The prioritised environmental challenges in terms of expected obligations from IMM are as follows:

SOURCE: ³⁶IMM Strategic Plan 2020 - 2024

Actions


The Green City actions developed within the framework of IMM's commitments are summarised below (Table 21).

Table 21: 4. Actions in Group 4

Action Code	Action Title	Action Type	Priority Challenges	Impact Level of the Action	Indicative Cost
B1.6	Commitment by the municipality to net zero energy consumption in all new municipality-controlled buildings by 2030.	Plan / Strategy	Lack of control over building efficiency standards.	Medium - High	Design / Development: 21,000 € - 31,000 €
SW1.10	Commitment by the municipality to ban the use of single-use plastics in municipal buildings and businesses, thereby encouraging local businesses to follow suit.	Plan / Strategy to turn into an investment project	Lack of solid waste separation.	Medium - High	Operating Cost: 600 € - 800 € Design / Development: 15,000 € - 20,000 €

B1.6: Commitment by the municipality to net zero energy consumption in all new municipality-controlled buildings by 2030.	
Strategic Plan Targets	5.2 Action will be taken in all areas, especially in agriculture and energy, to adapt to climate change and its impacts
Description	IMM will commit to a net zero energy target for all new buildings under municipal control to adapt to climate change and its impacts, and will encourage other organisations, businesses, and institutions to do the same.
Rationale	<p>Increasing national energy dependence on imported fuels and volatile market prices is a major challenge the world faces. IMM wants to set good examples by constructing net zero energy buildings in a number of projects within its urban regeneration programme. IMM also wants to prepare a financial and technical feasibility study to examine the feasibility and opportunities for net zero energy buildings in Izmir.</p> <p>The EU Energy Performance of Buildings Directive (consolidated version) requires all new buildings to be almost zero energy by the end of 2020. Given that Türkiye is a candidate country, Izmir will be a good example for the rest of the country.</p> <p>Note: 8 new buildings are planned according to the IMM Strategic Plan 2020-2024. In addition to the buildings in the Strategic Plan 2020-2024, IMM is encouraged to apply this target to all future buildings where appropriate.</p>
Implementation steps	<ol style="list-style-type: none"> 1. To establish a working group to work on the design, implementation, and additional costs for net zero buildings, with particular emphasis on water efficiency, which has high carbon impacts. 2. To review the municipality's construction and refurbishment programme. 3. To conduct feasibility studies for priority buildings 4. To determine the programme for achieving zero carbon 5. To develop and implement projects 6. Targets will be achieved by implementing phased projects. Sustainable low energy target will be reached between 2020-2025; almost zero energy target in buildings will be reached between 2025-2030 and net zero energy target in buildings will be reached after 2030.
Action type	Plan/strategy and investment project for future buildings

Positively affected environmental values	  	
Climate change risks and/or vulnerabilities addressed	-	
Expected reduction in emissions	<p>Committing to net zero energy consumption in all buildings will not reduce existing emissions, but it will reduce the potential emissions that these buildings would produce if they were constructed with current standards. Since there is no available information on the buildings proposed to be constructed in the future, it is not possible to calculate the reduction in emissions.</p>	
Implementation plan	Action holder	IMM
	Stakeholders	Academicians Consultancy companies for Green Buildings Financial institutions
	Financing options	Municipal budget, international financial institutions, private banks, green bonds
	Income/savings opportunities	Revenue/savings opportunities will come from reduced energy costs, reduced pressure on energy networks and public health benefits.
	Time frame	2021 – 2030
Impact measurements	Annual emissions associated with new public buildings	
Estimated cost	<p>Initial Investment Cost: - Operating Cost: - Design/Development Costs: 21,000 € - 31,000 €</p>	
Anticipated benefits	<p>Health Impacts: Public health - reduced pollution Economic Development: Increased economic efficiency; actions that generate income/savings Social Inclusion: Enhancing capabilities Environmental: Reduction of greenhouse gas emissions</p>	
Existing Studies Benefited	Izmir SEEP 2016 EBRD Türkiye Harmonisation Study Izmir Green Infrastructure Strategy	
Compatibility with 1/25.000 Scale IMM Environmental Plan	Not spatially dependent	
<p>SW1.10: Commitment by the municipality to ban the use of single-use plastics in municipal buildings and businesses, thereby encouraging local businesses to follow suit.</p>		
Strategic Plan Targets	6.2 Institutional Capacity and Functioning Will Be Made More Effective, Economic and Efficient	
Description	<p>IMM will commit to banning the use of single-use plastics in its buildings and businesses and encourage other organisations, businesses, and institutions to do the same in order to reduce the amount of non-recyclable waste and greenhouse gas emissions.</p>	
Rationale	<p>According to the United Nations Environment Programme report "Single Use Plastics - A Roadmap for Sustainability", the use of single-use plastics has the following impacts:</p> <ul style="list-style-type: none"> •Microplastics formed by the degradation of plastics are consumed directly by wild animals or mixed into the food they eat, and wildlife is affected, •Blockage of waterways and wastewater systems, •Visual pollution caused by wastes, •The economic cost of cleaning the coast and seas and the economic impact on fishermen, tourism, and transport sectors, 	

Implementation steps	<p>•The production and disposal of plastics cause greenhouse gas emissions, and a large proportion of plastics cannot be recycled³⁷. IMM has direct control authority over municipal buildings. Banning the use of single-use plastics is a very simple step that can be taken to reduce the total amount of non-recyclable waste and greenhouse gas emissions in Izmir.</p> <p>Commitment by the municipality to ban the use of single use plastics:</p> <ol style="list-style-type: none"> 1.To identify stakeholders and confirm the scope of the policy, 2.To create an inventory of single-use plastics, 3.To identify possible alternatives and mandatory/non-replaceable items, 4.To carry out impact assessment of costs and risks, 5.To develop and implement a plan with allocation of tasks and responsibilities, communication strategy and timeframe, 6.Implementation and monitoring. <p>Encouraging local businesses to do the same:</p> <ol style="list-style-type: none"> 1.To encourage voluntary mitigation strategies and agreements for local businesses, 2.To identify stakeholders, 3.To prepare case studies and guidelines (including methodological principles), to organise public campaigns for their implementation, 4.To monitor the implementation. 	
Action type	Plan/Strategy	
Positively affected environmental values		
Climate change risks and/or vulnerabilities addressed	-	
Expected reduction in emissions	<p>Since the amount of single-use plastic use is not known, the reduction of emissions cannot be calculated at this stage. Banning the use will result in benefits such as;</p> <ul style="list-style-type: none"> •Reduction of the total amount of waste, •Reduction of greenhouse gas emissions 	
Implementation plan	Action holder	IMM
	Stakeholders	Local Enterprises, NGOs, and Citizens
	Financing options	Municipality budget
	Income/savings opportunities	Savings opportunities will come from public health benefits.
	Time frame	2020-2030
Impact measurements	<ul style="list-style-type: none"> •Annual CO₂ equivalent emissions per capita •Annual CO₂ emissions per unit of GDP •Total solid waste generation per capita •GDP per household material consumption •Proportion of municipal solid waste separated and recycled in total and by waste type, e.g., paper cups, batteries, PVC bottles, metals 	
Estimated cost	<p>Initial Investment Cost: -</p> <p>Operating Cost: € 600 - 800</p> <p>Design/Development Costs: 15,000 € - 20,000 €</p>	
Anticipated benefits	<p>Health Impacts: Public health - reduced pollution</p> <p>Economic Development: Increased economic efficiency; income/savings generating activities</p> <p>Social Inclusion: Strengthening the social structure</p> <p>Environmental: Reducing pollution</p>	
Existing Studies Benefited		Izmir Integrated Solid Waste Management Plan 2018
Compatibility with 1/25.000 Scale IMM Environmental Plan		Not spatially dependent

SOURCE ³⁷ Zheng, J., Suh, S. Strategies to reduce the global carbon footprint of plastics. Nat. Clim. Chang. 9, 374 –378 (2019).<https://doi.org/10.1038/s41558-019-0459-z>

Izmir's Strategy for Living in Harmony With Nature

Izmir's Strategy for Living in Harmony with Nature Excerpted verbatim from Izmir's Strategy for Living in Harmony with Nature.

Efeler Road Project LAYER 34

Integrating axes:

To ensure the penetration of nature into the city

✓ To harmonise the penetration of people into the countryside with nature

✓ To promote a circular economy

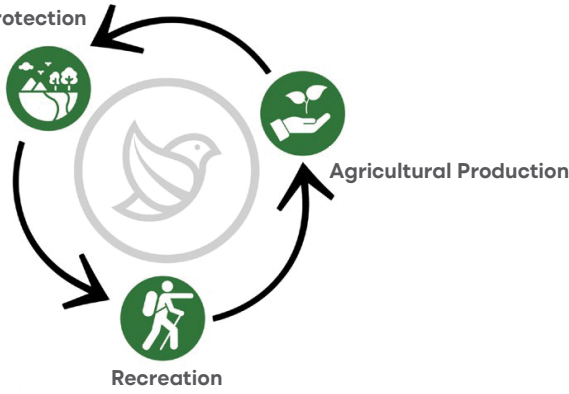
✓ To strengthen the links between urban and rural cultures

Remarks:

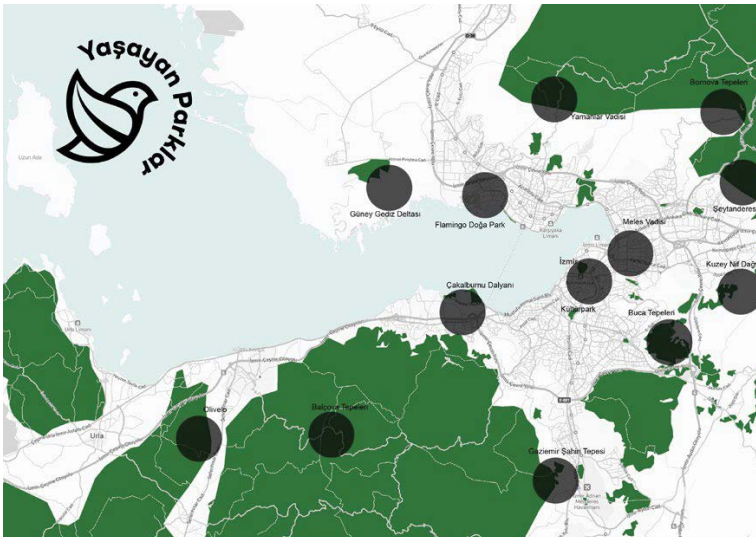
The project, implemented by Izmir Metropolitan Municipality in cooperation with Ege University, and in partnership with the Governorship of Izmir, Izmir Regional Directorate of Forestry, Efeler Road Association, and Izmir Foundation, aims to create an international cultural route that will bring to light the natural beauties, historical and cultural values of the Little Maeander Basin.

Starting from Belkahve district in Bornova, the Efeler Yolu is planned to reach the Meryem Ana (Virgin Mary) via Kemalpaşa, Bayındır, Odemis, Kiraz, Beydağ, Tire and Selçuk, connecting 29 mountain villages with a focus on Efelik, which is the cultural heritage of Izmir. The project, which is also supported by the Izmir Development Agency, is planned to both strengthen Izmir's claim in rural tourism and become an economic lever for the districts and villages along the route.

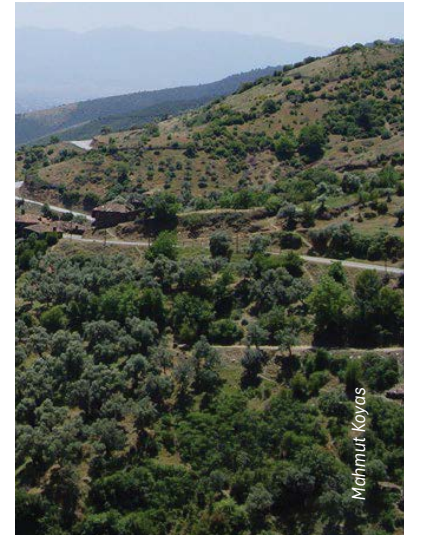
Ecosystem Protection



Each of Izmir's living parks has three main functions



13 Living Parks will be established around Izmir by 2023.
The entire network of Living Parks will consist of 35 sites.



Lebanon is one of the important stops on the road to Efeler

Increasing the number of parks in nei ghbourhoods deprived of green areas

LAYER 2

Integrating axes:

- ✓ To ensure the penetration of nature into the city
- ✓ To harmonise the penetration of people into the countryside with nature
- ✓ To promote a circular economy To strengthen the links between urban and rural cultures

Remarks:

Green deprived neighbourhoods in the districts with the highest urban population are identified and new parks are created. The parks created with this project will be connected with green corridors at possible points and nature-based solutions will be used while making park applications. Behcet Uz recreation area is the largest of these parks.

Flamingo Nature Park Project

LAYER 12

Integrating axes:

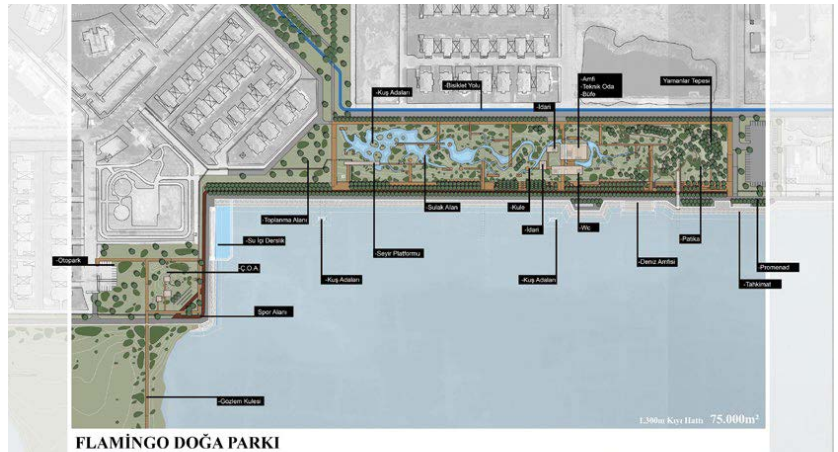
- ✓ To ensure the penetration of nature into the city
- ✓ To harmonise the penetration of people into the countryside with nature

- To promote a circular economy
- To strengthen the links between urban and rural cultures

Remarks:

Flamingo Nature Park, located on the Northwest Route, one of the IzMiras routes, is designed as a pilot area, a gateway to the daily visitor experience by protecting the Gediz Delta. The project refers to cultural inputs specific to the region, such as saline wetlands, birds living in the region, and pond fisheries.

It is envisaged to include uses such as a visitor centre, nature puzzles, in- water nature classroom, saline wetland plains, bird observation towers. In this way, it is aimed that visitors will have information about the Gediz Delta and all other Living Parks and contribute to the protection of the area through experience. It is foreseen that there will be a great increase in the quantity and quality of the public open green space system thanks to the IzMiras routes starting from the periphery of the city and reaching into the city. Flamingo Nature Park is one of the first examples of this different approach.



Flamingo Nature Park is located between Mavisehir and Gediz Delta.



Behcet Uz Recreation Area is located in the area where Bornova, Buca and Konak districts approach each other in the most green-area-deprived neighbourhoods of Izmir.



Izmir joined the "Plastic Waste-Free Cities Network", which was initiated by WWF worldwide and includes 36 countries, with the signing of the declaration of intent by Mr Tunc Soyer, Mayor of IMM in December 2019, and Izmir became the second city in the Mediterranean after Nice to commit to becoming a plastic waste-free city by 2030.

In this direction, we present to you, our esteemed readers, the "Plastic Waste-Free City Action Plan" (excerpted verbatim) prepared as a result of the pilot applications initiated in Cesme.

2.2.2 Development of IzDonusum Implementation	
Strategic Plan Objectives	5.1 Sustainable Waste Management and Recycling Mechanisms to be Developed
Description	Development of a mobile application that will encourage citizens to collect waste separately at source and make it a habit of life. The application will be designed to enable Izmir citizens to benefit from various incentive mechanisms if they register their separately collected waste through the application and deliver it to the collector.
Rationale	According to the waste characterisation study carried out in Izmir Province in 2018, the available samples show that recyclable packaging waste is the most significant element (18.97% by weight on average). Separate collection of dry recyclables will therefore: <ul style="list-style-type: none"> • Reduce the amount of waste sent to landfill (according to the Zero Waste Regulation, the amount of waste sent for disposal should be reduced by at least 15%) and the land required for landfilling • Contribute to the economy • Help achieve the target of collecting at least 12% of packaging waste separately at source by 2023, which is one of the targets of the Izmir Integrated Solid Waste Management Plan prepared by IMM in 2018
Implementation Steps	<ol style="list-style-type: none"> 1. To determine the content of the application by holding a meeting with stakeholders 2. To finalise the application software 3. To provide necessary trainings to the application users 4. To announce and promote the application to the citizens
Time Frame	2022-2023
Action Holder	IMM (Waste Management Department, IT Department)
Stakeholders	District Municipalities, IzDoga Inc., Licenced Waste Collection Companies, Izmir Citizens

IzDonusum Sample Application Draft

With the IzDonusum Project, it is aimed to make the separate collection of waste a habit of life by involving citizens in the waste collection process, thus strengthening environmental awareness, and protecting public health.

Application Flow



District Municipality User;

Assigned the appointment to the transporter by selecting a transporter -> A transport transaction occurred. (The transaction fell into the waste collector system)

1. When the transporter user lists the scheduled transport operations assigned to him/her by the District Municipality user and connected to his/her user in the transport operations tab, he/she accessed the information (such as first name-last name-telephone, address, location, uploaded photo(s)) of the user who created the appointment in that transport operation.
2. A route record was created by the transporter user through the transport operations assigned to him/her.
3. The transporter user travelled to the appointment location at the appointment time entered based on the appointment.
4. The transporter user took a photo of the waste before loading it into the vehicle and changed its status by taking a photo that it had collected the transport with the transporter user.
5. The District Municipality user viewed the record with the changed status by the transporter user and the record with the newly taken photo.
6. The District Municipality user compared the photos uploaded with the appointment and the photos uploaded by the transporter when closing the transport process. In case of a match, the transaction was updated as successful and bizpuan were uploaded to the user who created the appointment. If the photos did not match, the transaction was cancelled by updating the transaction as invalid.

Renewable Energy Studies and Solar Power Plants in the Shadow of Changing Climate

Omer KOC
Electricity and Electronic Engineer

CEO/Chairman of the Board of Directors of Ozenergy Inc.



While mankind is trying to combat global climate change, which is one of the consequences of the increasing population and the increasing need for energy, one of the most brilliant ideas that have emerged in this struggle has been the more active use of renewable energy sources. Unlike fossil fuels, which significantly increase greenhouse gas emissions, renewable energy options such as solar, wind, hydro and geothermal energy offer greener alternatives that do not emit harmful pollutants to the environment.

Today we would like to focus on one of these options, which is solar energy and solar power plants. As you know, the sun is the most important source of heat and light on our planet, and sunlight can be directly converted into electrical energy through solar power plants. The energy obtained from the sun is clean and environmentally friendly compared to fossil fuels, and therefore solar power plants are one of the most effective tools of mankind in the fight against climate change. The absence of air pollution and greenhouse gas emissions during energy production from the sun makes solar power plants one of the most environmentally friendly energy production methods. In addition to environmental factors, other factors such as the efforts of countries to increase energy independence, decreasing costs as a result of technological developments, and government policies and incentives have an impact on the increasing demand for solar energy.

Bringing all these factors together, we can better understand the reasons for the rapid increase in demand for renewable energy investments and especially solar power plants both in our country and in the rest of the world. So much so that not only on a national

basis, but even international organisations such as the United Nations and the European Union have developed various plans and projects for the use of clean energy, as well as encouraging the countries that are subject to them to use clean energy sources more effectively and have adopted phased plans. For example, there is the European Green Deal announced by the European Commission in 2019 and the goal of becoming the world's first climate-neutral continent by 2050.

On the other hand, the interest of both the state and the private sector in renewable energy resources is increasing in our country, and new regulations and new investments are being made every day. According to the National Energy Plan announced by the Ministry of Energy, it is aimed to reach 52,900 MW installed solar energy power by 2035. This means approximately 49.7 GW of new installations considering the existing

installed capacity. Although we have made significant progress for our country, which has a zero-carbon footprint target by 2053, it is obvious that we still have a long way to go. For example, while 3,400 MW of new installations should be made annually for this target to be met, only 710

MW of new facilities have been installed as of the first 6 months of this year and 42% of the set annual target has been achieved. Although our country has the potential to reach these targets, all stakeholders have some responsibilities. First of all, the shortage of connection capacity in substations is one of the biggest obstacles in front of sufficient number of projects. The allocation of connection capacity that can respond to the investor's excessive interest will accelerate the solar energy sector.

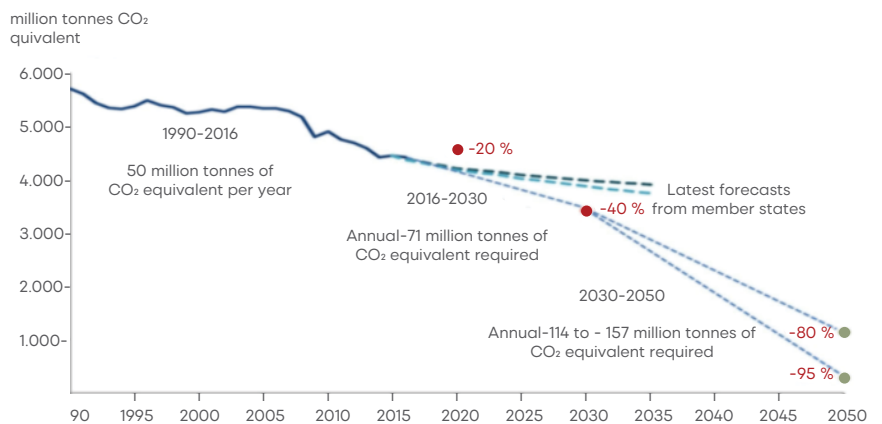


Figure 1: Greenhouse gas emission trends, projections, and targets in the EU, 1990-2050.



As Ozenergy, we have been serving in the solar energy sector, which is growing day by day and increasing in importance in our country, since 2017. Founded in Izmir by professionals with more than 10 years of experience in the sector, Ozenergy has installed more than 235 MW of land and rooftop solar power plants in Türkiye. Ozenergy is not content to stay only within the borders of Türkiye's, Ozenergy established Teos Energy in Hamburg, Germany in 2020 and provides project design and management services as well as solar power plant installation not only in Germany but also in many countries of the world. As a result of all these, these two companies, which have contributed to more than 6.7 GW solar power plant projects as of today, are increasing both the project portfolio and the number of countries in which they are active day by day.

The company has also signed a co-operation agreement with Exide Technologies, the German energy storage solutions giant, to offer energy storage solutions to be added to renewable energy plants both in Türkiye and Europe, in order to find solutions for the infrastructure inadequacies caused by the world's increasing energy demand, and its work in this field is gaining momentum day by day.

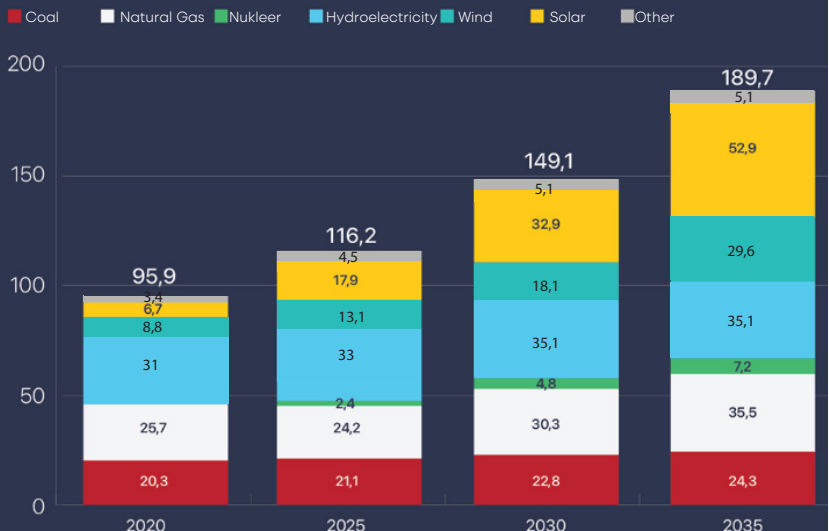
As a result, the most important tool we have to meet the ever-increasing energy needs of the planet and to protect against the harmful effects of global climate change is the much

more active use of renewable energy sources, and we, as Ozenergy family, are proud to be at the forefront of this struggle both in our country and in Europe.

Turkey's solar energy installed capacity is targeted to increase by 500 per cent by 2035

Turkey's solar energy capacity is expected to increase by 500 per cent to 52.9 gigawatts by 2035, making solar energy the source with the highest installed capacity.

Installed power distribution by sources (GW)



03.01.2023 Source: Ministry of Energy and Natural Resources

Accelerating Energy Transition

Climate change is a defining concern of the modern era, and the governments, businesses and individuals are seeking ways to reduce its impact on the environment. Energy management systems and reducing carbon footprint are tools that companies can use to accelerate the energy transition.

Making energy more efficient is an effective way for businesses to future-proof their businesses. By switching to decarbonised power sources and reducing overall energy use, businesses can minimise costs and prove their environmental credentials.

As climate change accelerates and energy prices remain volatile, businesses worldwide face a critical turning point in energy management. There are two ways for companies to reduce carbon emissions: to reduce energy consumption significantly or to switch to sustainable energy sources.

ISO 50001 is the global standard for energy management. With the ISO 50001 Energy Management System standard, businesses can monitor their energy consumption and uncover significant savings potential. By implementing the ISO 50001 Energy Management System, an energy policy with concrete targets and processes to achieve these goals can be created. Bureau Veritas' ISO 50001 certification allows you to demonstrate your commitment to achieving sustainability goals.

Businesses are increasingly setting carbon neutral and net zero targets to demonstrate their commitment to limiting global temperature increases to 1.5°C above 1990 levels. To achieve this, companies have three priorities: Reducing greenhouse gas (GHG)

Osman HISARCIKLIOGLU
Mechanical Engineer

Bureau Veritas
Renewable Energy
Department Manager



emissions from operations, sustainably managing internal and supply chain energy consumption, and offsetting unavoidable carbon emissions.

Bureau Veritas helps companies manage their energy consumption and minimise their carbon footprint through training on various standardised industry approaches. Bureau Veritas provides audits, independent certification, and verification of businesses' efforts to reduce climate change impacts, from carbon footprints to green finance.

Carbon footprint verification allows businesses to accurately assess and report their carbon emissions and identify areas for improvement. For it to be effective, accurate data is needed. Bureau Veritas verifies businesses against various voluntary standards and regulatory schemes for carbon footprints, enabling organisations to reduce emissions and prioritise sustainable operations.

ISO 14064-1 includes requirements and guidance for measuring and reporting greenhouse gas (GHG) emissions and removals at the corporate level. It covers everything from design to verification of the greenhouse gas inventory. Bureau Veritas offers ISO 14064-1 verifications and has extensive experience with the standard. Verification allows organisations to voluntarily demonstrate the robustness of their carbon footprint calculations and measurements through public reporting.

Carbon Offsetting and Greenhouse Gas Removal programmes allow companies to limit or offset their greenhouse gas emissions and minimise their environmental impact. By verifying carbon offsetting and elimination initiatives, Bureau Veritas proves the legitimacy of carbon credits and helps companies achieve carbon neutral and net zero operations.

ISO 14064-2 provides guidance for measuring, monitoring, and reporting the reduction and elimination of greenhouse gas emissions at project level. By providing verification to ISO 14064-2, Bureau Veritas helps companies provide transparency to stakeholders on GHG reduction project planning and reporting on project performance.

Bureau Veritas 2023 Global Energy Transition Report

Can the world meet the Paris Agreement's target of keeping global warming to 1.5°C? The energy sector has an important role to play in the transition to a low-carbon economy. We need a significant acceleration if we are to increase capacity growth in renewable energy and decarbonise the energy system at the required pace.

Bureau Veritas gathered views and opinions from over 800 market experts and industry leaders from all continents and corners of the energy sector from February to April 2023. The survey explores the major short-term barriers we need to remove to continue accelerating the energy transition and stay on track for the 1.5°C climate target.



It reveals insights into the real constraints the sector faces in four key dimensions: government policy and regulatory context, technological advancements, growing supply chains and mobilising a global workforce.

The survey results begin with a stark warning: The current pace of action on climate is insufficient and the pace of change needed to turn things around will need to be considerable.

The will to realise this change is largely in place. The view of how best to do this - a large increase in renewable energy capacity in general - is widely shared by industry and policymakers. What is missing in many cases is a deep understanding of the real, practical barriers facing the sector. In in-depth interviews with industry leaders, the same statement came up again and again: "Get government policy right and the rest will follow."

Industry needs clear direction from governments. When asked which single government measure would do the most to accelerate the transition, most respondents did not focus on costly measures such as tax incentives, preferring instead simplified permitting and consultation mechanisms. This is a recognition of the fact that thousands of potentially viable projects remain stuck in a planning quagmire.

New regulations in the form of the EU's Net Zero Industry Act and the US' Inflation Reduction Act are signalling that major economies are taking the issue seriously, but their effectiveness will be tested on the ground.

Only 40% of industry leaders believe that today's technology will enable us to achieve net zero. Collaboration between industry players along the value chain will be vital for the development of the more efficient renewable assets and energy storage systems the world needs. For new technology to be adopted, it needs to be trusted. Customers want to know that the technology is safe, reliable and performs at the required level. This means that developers need to secure key information. Performance criteria, including capacity and emissions profile, are the factors used to evaluate innovations, but factors such as operational safety, quality and sustainability are equally important.

But the barriers to accelerating the transition are not only demand-related: the sector is also facing major supply challenges. Trust in supply chains is crucial to accelerate the energy transition: public authorities need to be able to trust developers to deliver projects, and developers need to trust the resilience of their supply chains. However, sector leaders cite numerous supply chain challenges, starting with the geographical concentration of key components (90%) and quality issues (50%).

Finally, the energy sector is preparing for one of the biggest changes it has ever seen in terms of employment. To achieve a 38% increase in labour force numbers, the transition requires creative approaches. Reskilling oil and gas workers are an attractive option. But over time the sector will need to attract new and diverse profiles.

Industry organisations and governments need to work together to promote renewable energy as an attractive career and close the skills gap.

Bureau Veritas is supporting the energy sector to accelerate the transition to a net zero future.

Bureau Veritas works with the energy sector to meet the world's need for secure, sustainable, and affordable energy. We leverage our global reach and comprehensive portfolio of services to empower our clients across the entire energy value chain to shape a net zero future.

Bureau Veritas plays a crucial role in increasing stakeholder and public confidence in energy projects. As accelerated deployment will increase or pose risks, our worldwide network of energy experts is on hand to provide on-site and end-to-end project support.

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The energy transition requires new technologies and fundamental transformations in supply chains. Bureau Veritas' third-party assessments help mitigate innovation risk, while our audits and digital tools support supply chain resilience.

Digital Transformation and Smart Transport Systems in Izmir



Kadir Efe ORUC
Industrial Engineer

**Head of Izmir Metropolitan Municipality
Department of Transport**

Today, the sustainable development of cities is closely related to the digital transformation in the field of transport. Major metropolises such as Izmir are also part of this transformation and aim to make their transport infrastructure smarter, more efficient, and environmentally friendly.

The digital revolution in urban transport has created new opportunities to make the existing transport network more efficient and user-friendly. Technological changes and innovations inspire the protection of freedom of mobility in the 21st century and trigger the rapid change - transformation of urban transport systems going forward.

Relationship between Intelligent Transport Systems and Digital Transformation:

In general terms, "transport" is the name given to the activity of transporting loads or people from one place to another. It is the act of travelling from one place to another within cities, between cities, countries, and continents. It consists of road, maritime, air and railway modes.

"Digitalisation" is the name given to the process of transferring the data into a digital environment that can be read by any computer. With the development of computer, sensor, camera and network technologies, the concept of digitalisation appears in many areas of our lives such as education, healthcare, entertainment, and transportation. This concept, which has been on the agenda of companies producing goods and services under the name of "Industry 4.0" for the last 10 years, has also entered the agenda of public institutions in order to improve service quality. In our country, digitalisation studies are carried out in public institutions under the coordination of the Digital Transformation Office.

Intelligent transport systems refer to the integration of digital technologies into the transport sector. These systems help passengers plan their journeys more effectively and contribute to traffic management, monitoring of parking areas, public transport and reducing traffic congestion. In this context, Izmir aims to lead the digital transformation with infrastructure equipped with smart traffic lights, road condition monitoring systems and other sensors.

The integration of digital technologies into urban transport infrastructure undoubtedly brings many advantages. However, there are also some risks to be considered when developing these infrastructures:

Advantages:

- Improvement of Traffic Flow: Smart traffic management can shorten the journey times and facilitate fast access by reducing traffic congestion.
- Efficiency of Public Transport: Intelligent transport systems enable more effective use of the public transport system by tracking and coordinating public transport vehicles.
- Environmental Sustainability: Better traffic management and increased use of public transport can reduce carbon dioxide emissions and improve environmental sustainability.

•Road Safety: Intelligent transport systems have the potential to reduce traffic accidents. With instant traffic situation information, drivers can travel more safely.

Risks:

- Data Privacy and Security: The use of digital systems can increase security risks such as privacy of personal data and vulnerability to cyber-attacks.

•Infrastructure and Investment Requirements: The installation and maintenance of intelligent transport systems can be costly and may require infrastructure upgrades when necessary.

The digitalisation of transport in our city started about 10 years ago, and in this context, the Izmir Transportation Centre (IZUM) building was established, energy cables, fibre optic cables were laid, and infrastructure excavation works were carried out so that all systems related to the transportation infrastructure of our city could communicate with each other and be managed from the IZUM Control Room.

In addition to these:

•Signal programming is carried out according to real-time traffic October/November 2023 density at signalised intersections in the municipality's area of responsibility throughout the city.

•Audible pedestrian buttons were installed at signalised intersections for our disabled citizens.

•Red light violation, speed corridor and parking violation systems and traffic monitoring cameras were installed for safe and comfortable transport.

•Traffic measurement sensors were installed on the main arteries in the responsibility area of our municipality in order to measure traffic density.

•By installing the system in the car parks operated by our municipality, empty and full car park information was published on the information screens installed on the main arteries of the city,

•The efficiency of public transport management has been increased by installing cameras, passenger counting sensors and driver information screens on the buses operated by our municipality,



•Variable message systems have been installed on main arteries in order to provide traffic-related information to drivers,

•"Gabari Violation Systems" have been installed in order to control and inspect high vehicles entering our city,

•Izmir Transport Centre (IZUM) mobile and web applications have been developed to provide information to our citizens about traffic information,

•Hydraulic bollard systems were installed in pedestrianised areas and managed from IZUM Control Room,

•The transport management of our city is carried out in coordination with the police forces from the IZUM Control Room.

We are developing our digitalisation initiatives in transportation by including our other stakeholders. Most recently, in the first week of August 2023, a first in Türkiye was achieved at the IZUM Control Room and the taximeter settings of 3000 taxis were made online with a single button. As a result of this operation, which also made an impression in the national press, the taximeter adjustment, which in the past caused long queues and

loss of work and time, can now be done with a single button. This is the first of its kind both in Izmir and across the country.

In addition to all these efforts, it is imperative that our current transport investment decisions and policies are supportive in order to organise the integration of digital transformation into urban transport infrastructure in the fastest and most efficient way, and to address and systematise the issue holistically. For this purpose, within the scope of the IZMIRSKUP Project, comprehensive studies are being carried out to equip the transport infrastructure of our city with smart systems. In this context, the following innovative transport systems are aimed to be offered to the service of Izmir citizens under the leadership of our Municipality in the future:

•Changing the routes of bus lines or adding new lines to increase the availability and sharing of public transport within Izmir, including demand responsive public transport:

•Incentive scenarios for sustainable transport modes with low carbon emissions, such as pedestrian zones, differential charging zones in urban functional areas, fuel price

increases and fare policies based on distance travelled:

Car sharing applications, high-capacity lanes, fare incentives:

•Real-time predictive traffic management and implementation of model-based real-time decision support,

•Optimisation of city traffic control with intelligent and evaluation-based adaptive traffic light systems,

•Providing real-time information for travellers,

•Deployment of connected and autonomous vehicles with realistic population ratios,

•Implementation of a dynamic charging system for road and car park users,

•Introduction of 'door-to-door' multi-modal transport solutions with mobility as a service (MAAS) applications and integrated fare management,

•Development of micro-mobility infrastructure and services (bicycles, e-bikes, electric scooters, electric skateboards, shared bicycles, etc.)

Roadmap for Recycling Wind Turbine Blades

With the widespread use of renewable energy sources, recycling of materials used in energy systems has also come to the agenda. For example, the average lifetime of a wind turbine is 20 to 30 years. Izmir, which is also called the capital of the wind, will be the province where wind turbine waste will be the highest in the coming years as it is the province with the highest density of wind power plants. According to Izmir Development Agency's Izmir Wind Turbine Blade Recycling Roadmap report, it is estimated that 2,063 turbine blades and 19,419 tonnes of turbine blades will complete their lifespan between 2022-2036. Work has been initiated for Wind Turbine Blade Recycling, led by the Izmir Development Agency, with Izmir Metropolitan Municipality as a stakeholder.

Research shows that turbine blades with organic content cannot be stored due to the resin used in the manufacture of wind turbine blades, which is used to hold the glass fibres. Therefore, alternative solutions are produced for recycling the blades. In the manufacturing industry, using them as material, fuel and/or thermal insulation material in cement factories and using them in high quality fuel or fibre production processes with a specially designed technology appear as solutions. Apart from these, use as urban furniture, making some specific structural products and use for construction purposes are particularly prominent.

The World's Best Strategies for Recycling Wind Turbine Blades:

In the Re-Wind Design Catalogue, Re-Wind Network has offered the following various solutions for the recycling of wind turbine blades.

Some of those

- Conversion into mobile phone base station towers
- Use in areas such as garden fencing, cattle partitions and shelter in barns
- Use as a noise barrier
- Use as roofing material at bus stops and households
- Use as a bridge in stream beds



In DENMARK, Miljoskarm company used glass fibres obtained from wind turbine blades as noise barrier and heat insulation material. Again, in Denmark, the company operating a wind turbine called Siemens Gamesa has built a bicycle shed by recycling the blades that come out as waste from its facilities.



In Germany, designers have designed stylish furniture such as bookshelves that can be needed for daily use from wind turbine blades that have completed their life cycle.



The recycling company Anmet and its partner GP Renewables Group (Poland) built the first pedestrian and cycle path bridge with girders made from wind turbine blades.

Sustainable Urbanisation and Increase in Green Areas in Izmir



Since 2019, under the leadership of IMM Mayor Tunc Soyer, important steps have been taken with a sustainable urbanisation vision in the city. Under the leadership of Mayor Soyer, the focus was on the protection of nature, culture, agriculture, and green areas. Approximately 2 million square metres of green areas have been reclaimed. Thanks to the 2026 EXPO planning, a green area larger than Kulturpark will be added to the city. In the last 4.5 years, an intensive planning activity was carried out in the city, centred on the protection of natural and cultural values. Thanks to these efforts, green areas have reached 3.5 million square metres and public service areas have reached 8.5 million square metres.

IMM Saved TRY 7 million with Solar Energy Investments

IMM Climate Change and Zero Waste Department is increasing its environmental investments. Turning to renewable energy sources to combat the global climate crisis that threatens the world, IMM has installed solar power plants (SPPs) at critical points. Thanks to SPPs, both clean energy is obtained, and greenhouse gas emissions are reduced. Thus, the carbon footprint is reduced by preventing the damage caused by human activities to nature. Thanks to the 13 solar power plants established by IMM with an investment of TRY 14 million, TRY 7 million was saved in energy. Thus, greenhouse gas emissions equivalent to 900 tonnes of carbon per year were prevented.



2nd ESIAD Investment Summit



The 2nd Aegean Industrialists' and Businessmen's Association (ESIAD) Investment Summit, where topics such as access to finance, international partnerships and capital market opportunities were discussed, was attended by Mayor Soyer, Governor of Izmir Dr. Suleyman Elban, Chairman of Izmir Chamber of Commerce Mr. Mahmut Ozgener, Chairman of ESIAD High Advisory Council Mr. Sitki Sukurer, Chairman of ESIAD Ms. Sibel Zorlu, heads of non-governmental and professional organisations, and representatives of the business world. In his opening speech, Tunc Soyer said "Wherever you are in Türkiye, please demand democratic provisions from the government and local authorities. This is your most natural right."

International Textile Biennial opens in Izmir



Izmir Metropolitan Mayor Tunc Soyer opened the International Textile Biennial. The biennial can be visited until 24 November. Izmir's historical and cultural richness combined with the theme of the biennial, "slowness". Artists presented their works inspired by Izmir's 8,500 years of history. The exhibition will convey sustainability and ethical practices to the audience by emphasising the slowness movement and the values of textile art. Curator Nihat Ozdal stated that Izmir is a source of inspiration for artists.

Izmir-Lesbos Ferries closes the Season with Friendship

IMM Mayor Tunc Soyer's efforts to transform Izmir into a world city and increase the city's share in maritime tourism have borne fruit. Izmir-Lesbos voyages, which were launched last year, experienced a passenger boom this year. The number of passengers carried tripled compared to last year. Mayor Tunc Soyer participated in the season closing ceremony of the Izmir-Lesbos services, which were realised thanks to the mutual efforts of IMM, Municipality of Lesvos and the Governorship of Lesvos (North Aegean Periferia) for two years. Upon his arrival in Lesvos, Soyer was welcomed by the Mayor of Lesvos Stratis Kitelis and representatives of non-governmental organisations on the island.



Izmir, the Quiet City, meets its Quiet Place



IMM renovated a 150-year-old building in Pazaryeri, the "Quiet Neighbourhood" of Izmir, the world's first Cittaslow Metropolis pilot city, and brought the "Quiet Place Agora" to life. Stating that the pulse of the city beats in the neighbourhoods, Mayor Soyer said, "Izmir's emotion and common sense are born in our neighbourhoods and determine the spirit of the whole city. The Calm Space we have opened is a reflection of this spirit." At the Calm Space Agora, which was opened in cooperation with non-governmental organisations in the city, women will be able to have a job with the Golden Needle project developed within the scope of the training programme of the Occupational Factory, as well as enrol in the sewing-embroidery course or the hairdressing class and acquire their own profession.

Investments of Izmir Metropolitan Municipality in Foca

Izmir Metropolitan Municipality Mayor Tunc Soyer, at the groundbreaking ceremony of Foca Bagarasi New Industrial Site, stated that the total investment made in Foca in the last four years was 605 million liras. Soyer emphasised that this investment means approximately 18 thousand liras for each Foca resident. Foca Mayor Fatih Gurbuz and CHP Deputy Chairmen Bulent Kusoglu and Hasan Efe Uyar also made speeches at the ceremony. Sedat Ozdemir, President of Foca Chamber of Tradesmen and Crafts-men, and Ufuk Deveci, representative of tradesmen, expressed their gratitude for the benefits that the new industrial site will bring.



Izmir Torbali Fire Station Opens



Izmir Metropolitan Municipality has put a new fire station into service in Torbali Pancar Organised Industrial Zone. The station will serve with 15 personnel and 4 vehicles and will respond to both industrial enterprises and accidents on the motorway. Mayor of Izmir Metropolitan Municipality Tunc Soyer stated that this step was taken to make Izmir more resilient to disasters. In addition, Mayor Soyer emphasised that this investment of 26 million liras is an excellent example of industrialist and local government cooperation. The station will operate in an area of approximately 2 thousand square metres.

Seferihisar Akarca Wastewater Treatment Plant Pumping Station and Sea Discharge Line Groundbreaking Ceremony

IMM Mayor Tunc Soyer hosted the groundbreaking ceremony for the construction of "Seferihisar Akarca Wastewater Treatment Plant Pumping Station and Sea Discharge Line", which is one of the investments announced to the public at the introductory meeting titled "100 Projects from IZSU in the 100th Year of the Republic". Explaining the importance of the project to be realised with an investment of 95 million liras, Mayor Soyer said, "I cannot risk the lives of the people of Izmir. Even if it is difficult to explain, whether it is noticed or unnoticed by others, we will not turn back from this path. On the one hand, they are trying to protect the wealth of the rich with currency-linked deposits, on the other hand, we are trying to currency-link the children, the agriculture, the citizens, the youth, and the country."



92nd IEF Offers Unforgettable Moments to Its Visitors

The 92nd Izmir International Fair, the symbol of Izmir, left unforgettable memories with special events for the 100th anniversary of the Republic and the 101st anniversary of the Liberation of Izmir. Izmir International Fair, which welcomed its visitors between 1-10 September with the theme of "Youth", special for Izmir being the "2026 European Youth Capital Finalist", started with a giant cortege march. In the cortege, which witnessed colourful images, Izmir Metropolitan Mayor Tunc Soyer walked with the youth of the world to the fairground in Kulturpark. Sanliurfa was the guest of honour of IEF, which opened its doors for the 92nd time with the enthusiastic opening ceremony held after the march.

In his opening speech, Mayor Soyer said, "Izmir International Fair is the first and pioneering brand of the Republic of Türkiye, founded by our ancestors a century ago, to promote itself on an international scale. Izmir is the city of liberation with September 9th, the city of economic establishment with the Economic Congress, and the city of economic resurrection with the Izmir International Fair. Today, our Republic is rising on these three keystones.



For this reason, both September 9th, the Economic Congress and the Izmir International Fair are the main historical references for the construction of the future Türkiye. It is of course not a coincidence that all these events took place in Izmir. As we stated in the Final Declaration of the Economic Congress of the Second Century... Izmir has found the magic of coexistence with all its differences, discovered its codes, and transformed polyphonic and multi-coloured lifestyles into prosperity. That Izmir has hosted countless innovations ranging from trade to academia, literature to music, urbanism to architecture is a result of these very strong economic and cultural conditions."

Stating that the 92nd Izmir International Fair is dedicated to young people in order to raise hope even more, Mayor Soyer said: "We will improve life under the leadership of young people, and I know that the stage of this change will be Izmir, which has been the source of innovations throughout history. This is exactly why we aim to make Izmir the 2026 European Youth Capital". In the youth area specially prepared this year, youth non-governmental organisations, units of Izmir Metropolitan Municipality related to youth work, stands of sports clubs, and many activities such as adventure park, zipline, music and dance shows, interviews of famous athletes, street basketball were organised.



IMM met with visitors at the Street of Municipalities, which was established with the theme "100 Years of Youth, 100 Years of the Republic" at the 92nd Izmir International Fair this year. At the fair, Izmir Metropolitan Municipality's departments and companies introduced their historical investments and projects that shed light on Türkiye's second century to the visitors at their special conceptual stands. The "Village Institute of the Second Century - Yet Another Agricultural School", heralded by Izmir Metropolitan Mayor Tunc Soyer, was introduced for the first time at the 92nd Izmir International Fair. Young people discovered the project, which will provide free boarding education to young people, with VR glasses.



the 92nd Izmir International Fair. Tens of thousands of visitors queued at the gates to enter the fair.

With the lawn concerts, Mogambo Stage and Rock & More Stage, which have become the classics of IEF, our artists gave people of Izmir a magnificent music feast for 10 days. On 6 February 2023, Hatay Civilisations Choir, which lost some of its members in the earthquakes centred on Kahramanmaraş, gave a concert on the last day of the 92nd Izmir International Fair to thank the support of Izmir Metropolitan Municipality, Choir Conductor Yılmaz Ozfırat said, "You have supported our province both financially and morally. We wanted to thank you this evening for hearing our voices and supporting us. We wanted to give a family concert. Tunc Soyer is the architect of this work."

Izmir International Fair, which welcomed hundreds of thousands of people with activities that appeal to all age groups in technology, trade, culture, arts, sports, and entertainment, gave its visitors unforgettable days this year.

were also organised at the fair, which opened its doors on the 100th anniversary of our Republic. While the people of Izmir formed long queues to take photos of Atatürk with artificial intelligence, the Republic Tunnel, and the Republic Table special for the 100th year attracted great attention. At the Republic Table, people of Izmir signed the memory book opened for the 100th anniversary.

The enthusiasm for the 101st anniversary of the Liberation of Izmir was also experienced to the fullest at

Again, the 2023 CEV European Championship of the A National Women's Volleyball Team, which has written its name in gold letters in history on the 100th anniversary of our Republic, was celebrated with enthusiasm at the fair. IMM Mayor Tunc Soyer watched the final match of the Sultans of the Net, who became European Champions for the first time, with thousands of young people at the Izmir International Fair.



Sasal Su, the Legacy of the Republic, is Back in Business

İMM Mayor Tunc Soyer hosted the opening of the Sasal Su Factory in Menderes, a 91-year-old legacy of the Republic, which was reactivated by the metropolitan company İzDoga. Sasal Su water source, which İzDoga Inc. leased from İZSU in October 2022, was equipped with the latest technologies in about a year and reunited with Türkiye. Stating that the journey of 100 works for İzmir in the 100th anniversary of the Republic has started, President Soyer said, "Sasal is a project of loyalty. This factory is our loyalty to the Republic. It is our loyalty to our ancestors. And it is the legacy we will leave to our children. Sasal is the right of İzmir, and the Republic is the right of İzmir. May Sasal, a fountain of the Republic, be auspicious for İzmir."



Victory Day celebrated with enthusiasm in İzmir



Mayor of İzmir Metropolitan Municipality Tunc Soyer attended the 101st anniversary ceremony of August 30th, Victory Day, organised by CHP İzmir Provincial Organisation. At the event in Cumhuriyet Square, a wreath was placed at Atatürk Monument. In his speech, Soyer emphasised that August 30th is a great legacy for Türkiye and that this victory is the day when the liberation struggle of Anatolia ended in victory. Soyer also said, "We will overcome the difficulties with the inspiration we take from the past and the hope in our hearts. Our ancestors succeeded 101 years ago, and we will succeed again."

We will defend September 9th and İzmir To Our Last Breath

İzmir celebrated with great enthusiasm the 101st anniversary of its liberation from enemy occupation. After the cortege march, a representative flag ceremony was held in Konak Atatürk Square. Cavalry troops re-enacting the liberation of İzmir arrived in front of the Government House and a soldier representing Captain Serafettin hoisted a Turkish flag. The enthusiasm that overflowed into the night reached its peak with the lantern procession from Cumhuriyet Square to Kulturpark Lausanne Gate. Greeting the participants by quoting "Beautiful people of beautiful İzmir", Mayor Tunc Soyer said, "9 September and İzmir are our honour. We will defend September 9th and İzmir to our last breath."



Sema, Gold Medal winner from Izmir



Türkiye's Umit National Team, which includes Izmir Metropolitan Municipality Youth and Sports Club judo player Sema Mete, won the gold medal at the European Youth Olympics.

Soyer: The Bay is the Heart of Izmir



Izmir Metropolitan Municipality Mayor Tunc Soyer participated in the Izmir Bay Tour with Bergama Ferry, one of the symbols of Izmir.

Soyer meets with International Summer School students



Mayor of Izmir Metropolitan Municipality Tunc Soyer came together with students within the scope of EPA International Summer School programme. Talking about the city with students and trainers from many different countries, Mayor Soyer emphasised the importance of common sense.

36 thousand free tickets to art events with the Young Ticket programme



Izmir Metropolitan Municipality continues the "Young Ticket" programme, which was launched last year to support young people's access to the arts.

"I'm ready to be with you at any time"



Mayor of Izmir Metropolitan Municipality Tunc Soyer hosted Betül Sezgin, Chairman of the Board of Directors of Izmir Businesswomen's Association (İZİKAD) and Sakine Babayeva, Chairman of the Board of Directors of Azerbaijan Women's Entrepreneurship Development Association (AQŞIA) at the Sovereign...

Izmir Metropolitan Municipality became the first Metropolitan to have ISO 27701 standard

Certificate

TSE has issued an ISO 27701 recognized certificate that the organization:
İZMİR BÜYÜKŞEHİR BELEDİYESİ BİLGİ İŞLEM DAİRESİ BAŞKANLIĞI
MERKEZ MIMAR SINAN MAHALLESİ 8 EYLÜL MEYDANI NO:9/1 KÜLTÜR PARKI Kİ
1 NOLU HİÇ KÖNÜK YOLU 35230 İZMİR
TEŞİS LOGUZLAR MAH 1283, SOK NO 2-4 35230 KONAK-İZMİR
TEŞİS 2 ŞİRKİ KARAY MAH SEİTİ ER MEHMET ÇADIRCI CAD.
NO 50 35298 BUCA
İZMİR / TÜRKİYE

Izmir Metropolitan Municipality, a pioneer in compliance with the Law on the Protection of Personal Data (KVKK), became the first Metropolitan Municipality to receive the international ISO 27701 Personal Data Security Standard

A Different Agriculture Certification is internationally recognised



Work continues in line with Izmir Metropolitan Municipality Mayor Tunc Soyer's vision of Different Agriculture is Possible, which is based on the fight against drought and poverty.

Treatment leader Izmir's sea is also "excellent"



According to TURKSTAT data, Izmir is the leading city in Türkiye in terms of the number of treatment plants in European Union standards and the amount of water treated with advanced biological method per capita, and its success in this field is also reflected in the quality of sea water.

Ambassador of Albania Kastriot Robo visiting Soyer



Mayor of Izmir Metropolitan Municipality Tunc Soyer hosted Kastriot Robo, Ambassador of Albania to Ankara, in his office. Stating that mutual relations with Albania are important, Mayor Tunc Soyer said, "We have a very strong potential to establish good relations."

Mayor Soyer: It was a dream of many years



Izmir Metropolitan Municipality Mayor Tunc Soyer visited the new box office of Izmir City Theatres, which was put into service at Konak Ferry Station.

İZMİR METROPOLITAN MUNICIPALITY



Ed Synnott

Climate NeutralCities Advisors
@NetZeroCities

into a one-stop shop platform that is accessible to all cities through an online portal. In addition, the project supports a series of Pilot Cities to help drive rapid learning about how to achieve climate neutrality at the city scale. These Pilot Cities will test out innovative strategies to move towards climate neutrality, and benefit from hands-on assistance and dedicated services to achieve their net-zero goals.



NetZeroCities and IZMİR'S TRANSITION

About NetZeroCities

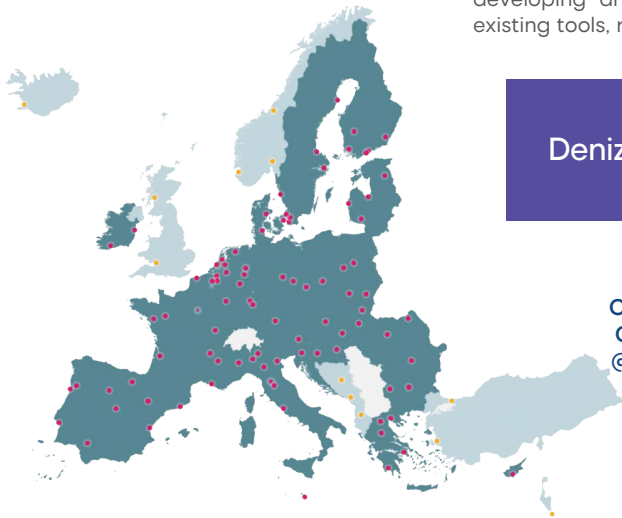
NetZeroCities is a project consortium consisting of 34 partners from 27 European countries and is funded under the Horizon 2020 Research and Innovation Programme in support of the European Union's Green Deal and the EU Mission **100 Climate-Neutral and Smart Cities by 2030**.

By aiming to achieve 100 climate neutral and smart cities in Europe by 2030, the EU Mission will also ensure that these cities act as experimentation and innovation hubs to put all European cities in a position to become climate neutral by 2050.

NetZeroCities presently manages the EU Cities 'Mission Platform' which is focused on supporting and scaling the activities of this project across the 100 EU cities plus 12 cities in associated countries including Izmir and Istanbul in Türkiye. NetZeroCities supports cities in drastically reducing their greenhouse gas emissions to achieve climate neutrality by 2030, and tackling the unprecedented capital investments needed to make such a transformation possible with the creation of targeted investment plans.

NetZeroCities connects Mission Cities with advanced capabilities related to systemic change, stakeholder and citizen engagement, governance, capital and financial structuring, and social innovation, ensuring that cities have access to the best expertise available anywhere in the world. The project recognises the need for cities to develop specific strategies that are tailored to suit local and regional contexts and supports them by developing and promoting new and existing tools, resources, and expertise

NetZeroCities has designed several tools to help cities on their journey toward systemic innovation. The Climate Transition Map guides cities toward decarbonization by encouraging the development of a portfolio of actions within a holistic framework. This systemic change acknowledges that relying upon current technical solutions alone is insufficient to achieve the goal of climate neutrality: Enhancements are also needed in governance structures, democratic participation, finance, learning capabilities, and social innovation for climate neutrality to be reached. Another innovative governance mechanism, the Climate City Contract (CCC), is a cornerstone for Mission Cities to launch and accelerate their approach to carbon neutrality. In this context, Izmir is taking an innovative approach to kickstarting its own journey towards carbon neutrality with its commitment to developing a CCC.



Deniz Celik Bulgurlu

Climate Neutral
Cities Advisors
@NetZeroCities



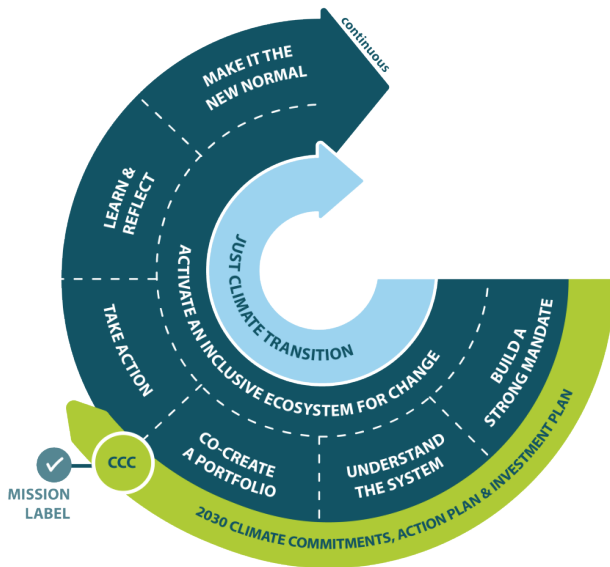


Figure 1: The Climate Transition Map

The Action Plan and Commitments (key parts of the CCC) will detail Izmir's steps necessary to address gaps between the current baseline Greenhouse Gas Emissions (GHG) inventory and its ongoing and prospective climate initiatives. The CCC will chart a strategic course toward ambitious 2030 goals, setting out the city's key commitments as well as those of major stakeholders on this journey.

Izmir's Transition To Climate Neutrality

In the context of the Mission Cities, there are many diverse characteristics which come into play when considering how and why GHG emissions are being generated. There is also a wide spectrum of population, spanning from under 150,000 to over 1,000,000, with the majority of cities comprising more than 500,000 people. Istanbul and Izmir clearly lead the pack in terms of being among the most populous cities of the 112 Mission Cities.

Shifting the focus to spatial considerations, an intriguing observation can be made concerning Izmir. Despite not being as densely populated as certain counterparts, the city still contributes significantly to emissions per capita. This observation underscores the significance of Izmir's

journey towards climate neutrality. Despite lower population density, the city shoulders a notable share of emissions on a per-person basis.

The challenge is clear for cities like Izmir, which must intensify efforts to enhance walkability, facilitate access to better city services, mitigate transportation-related emissions, and minimize energy consumption from buildings and the industrial sector. The

bright side emerges as Izmir unveils substantial potential for renewable energy adoption, as evidenced by its noteworthy developments in embracing eco-friendly energy solutions.

In May 2023, members of the NetZeroCities consortium visited Izmir, and engaged with Mayor Soyer, the Vice-President, and the Izenerji team. The latter is responsible for expanding clean energy in Izmir, driving forward the energy side of the transition to climate neutrality. This significant event marked the launch of "KİT İZMİR" (Global Climate Community), a global climate community supporting the Mission. This initiative of Izmir has become an exemplar for Mission Cities to create a platform for diverse stakeholders across the city to work together on the Mission. Additionally, the NetZeroCities consortium had the privilege of participating in the BEST For Energy Initiative closing awards ceremony, during which they connected with visionary entrepreneurs who shared their ideas. We are keenly looking forward to the actions that KİT will undertake in climate neutrality goals, informed by ideas from entrepreneurs and other citizens.

As NetZeroCities Advisors, we are delighted to see Izmir and Mayor Soyer's advocacy for climate neutrality and the integration of these principles across various initiatives. Izmir stands out as a city that recognises its importance in innovation and delivery in climate neutrality – not just for its own citizens, businesses, and the urban, cultural, and ecological fabric of the city, but for its contribution to fostering cutting-edge technology so urgently needed to reach climate neutrality within the European and Middle Eastern regions. We hope that Izmir continues to be a beacon for other cities in Europe, the Middle East and beyond.

The trajectory of NetZeroCities is accelerating, as reflected by an expanding team of experts. We are happy to also announce that we will be able to guide the Izmir team in Turkish as well, which will be a fantastic opportunity to further strengthen our work together and leave nobody behind.

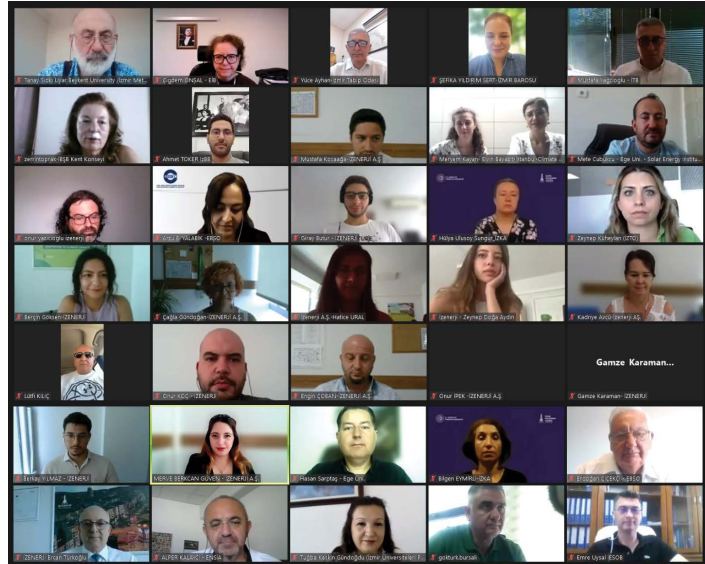
Presently, our focus is on working with the municipality as the team prepares the governance tool at the heart of the NetZeroCities programme; the Climate City Contract (CCC). The Climate Transition Map and the Climate City Contract can motivate action and actively involve city stakeholders in the journey to climate neutrality. Another aspect is the Climate Investment Plan, attracting investors who share Izmir's ambitious goal.

The challenges are significant, but with dedication and a united approach, they can be overcome by acting all together. The Mission calls for collective efforts in achieving a common goal. The resulting journey reflects the power of collaboration and shared purpose. We will achieve this together with all our diverse voices and hope that Izmir, through its unique strengths, will pave the way for other cities on the path to climate neutrality.



Members of GCC Izmir Steering Committee Meeting

The first steering committee meeting of GCC Izmir was held on August 3rd. There was an intense interest and participation from 16 organisations comprising the steering committee. Following the presentation about the Climate Neutral and Smart Cities Mission and the roadmap, the members of the Steering Committee took the floor and shared their assessments on GCC Izmir and the contributions their organisations can offer. Cigdem Onsal (EIB) said: "We know that the Global Climate Community is a structure and target-oriented organisation that focuses on global climate change. We have been working on sustainability for the last few years. These structures are complex structures, so the cooperation to be made is important. I think that creating a structure in which all stakeholders will take part will actually enable us to achieve a more focused and realistic approach to goals such as carbon zero and combating climate change." Alper Kalayci (ENSIA) said: "Many companies on clean energy are either our members or in contact with us. We are ready to do our best to utilise all the means at our disposal, for Izmir". Yuce Ayhan, President of Izmir Chamber of Medicine, said: "We value this process and have been following it since the beginning. We are interested in the society and healthcare sides of the process. I wish it to be a useful and productive working process". Thus, the first meeting of the GCC Izmir Steering Committee ended with the support and interest of the members in the process.



On September 20th, in the second meeting, the Steering Committee Members were informed that the first version of Izmir's Climate City Charter was prepared and submitted to the European Commission. It was emphasised that after the first version, the documents would be enriched with the contributions of the organisations in the Steering Committee, so that it is possible to prepare a more comprehensive and participatory road map in line with Izmir's climate neutrality target. After a more detailed presentation on the current

developments and the content of the charter, the opinions, and suggestions of the participants on the process were received. The members of the Steering Committee, who followed the presentations with great interest throughout the meeting, shared that the point reached was an important achievement and that the process would be strongly supported. After the opinions and suggestions of the members regarding the road map were received, the meeting was concluded.

Preparations for SECAP with District Municipalities



A Pioneer in Turkey!

Izmir Metropolitan Municipality is working to become the first city to have SECAP reports with 30 districts.



Sustainable Energy and Climate Action Plan for All District Municipalities!

IZMIR METROPOLITAN MUNICIPALITY IS TAKING A STEP THAT WILL BE THE FIRST IN TURKEY AND WILL SET AN EXAMPLE FOR OTHER CITIES BY LAUNCHING A TRAINING, CONTENT AND METHODOLOGY SUPPORT PROGRAM FOR THE PREPARATION OF SECAP REPORTS FOR ALL DISTRICT MUNICIPALITIES IN IZMIR.

- ✓ Strengthen the Community Climate Alliance.
- ✓ It will create a common SECAP synergy between each district municipality and the Metropolitan Municipality

- ✓ Ensure consistency in key reporting and climate targets across Izmir and its districts.
- ✓ Provide municipalities with easier access to internal and external financing and funding support.

www.izenerji.com.tr

0232 411 77 00

info@izenerji.com.tr

IZENERGY continues to work with great devotion within the scope of the "Integrated SECAP Preparation and Coordination Project at the Scale of Izmir and its Districts", which was initiated with the support of relevant experts. After contacting all district municipalities within the scope of the project, the first steps towards SECAP Greenhouse Gas Inventory studies were taken. In the step of identifying activity data sources, it was specified which institutions, organisations, or sources to cooperate with in order to determine the sources of greenhouse gas emissions and to collect data. In the light of the studies carried out, we support the SECAP preparations of our District Municipalities with the preparation of the necessary forms during the data collection phase and continue to follow up the process.

Alper Tuydes

Spur-winged Lapwing

The Spur-winged Lapwing is a species of bird in the Charadriidae family. It breeds around the eastern Mediterranean and in a wide area from sub-Saharan West Africa to Arabia. It is found in fresh and salt marshes and irrigated areas with stunted vegetation.

IZENERGY at the 92nd Izmir International Fair



Youth in the 100th Anniversary of the Republic Pioneer of the Future" with the 92nd Izmir International Fair as Izenerji A.S. to participate as Izenerji A.S. the happiness of hosting our people we are in. As Izenerji A.S. in the field of renewable energy for our city our work will increase even more Izmir's renewable energy sector media coverage of leading cities We have shared with our guests what is required. In addition, we undertook the coordination of EU Climate Neutral and Smart Cities Mission & Climate Change Adaptation Mission GCC Izmir platform to our citizens. To our guests who visited our stand GCC Izmir social media accounts and share their ideas and opinions with us We emphasised the importance of sharing.

IZENERGY Family Marched With Enthusiasm on the 101st Anniversary of the Liberation of Izmir

As IZENERGY employees, we participated in the 101st Anniversary Victory March organised by Izmir Metropolitan Municipality for the 101st anniversary of the liberation of Izmir from enemy occupation. Our victory march, which was held on the route where the Turkish army entered the city on September 9, continued from Basmane Police Station to Cumhuriyet Square. Our cortege march accompanied by anthems gave us pleasant moments. We crowned the enthusiasm of 9 September, which was celebrated with activities all day long and overflowed into the night, with the Lantern Procession from Cumhuriyet Square to Kulturpark Lausanne Gate and the march with the 350-metre Turkish Flag.



We Talked About GCC Izmir During the European Mobility Week



Within the scope of "European Mobility Week", which is celebrated every year between September 16-22, a series of events were organised by Izmir Metropolitan Municipality Department of Transport, IMM, which continues its environmentally friendly transport investments for a sustainable city, held celebrations with the theme "Save Your Future Energy" and the slogan "Discover Your City". IMM units and companies, which set up a stand on Cumhuriyet Boulevard, carried out project promotions. As Izenergy Inc., we introduced the GCC Izmir platform, which is directly related to sustainability and environmental issues, to the participants who visited our stand. In addition, visitors shared their opinions and suggestions regarding the GCC Izmir platform through an online survey.

First Roof SPP with EPC from IZGUNES



An Energy Performance Contract (EPC) was signed between IZGUNES Inc., and Tire District Municipality for the Installation of Tire Gazi Mustafa Kemal Ataturk Stadium 1.145 kWp/900 kWe Roof SPP.

In August 2020, the tender prepared by Tire Municipality within the scope of the "DECREE ON THE PROCEDURES AND PRINCIPLES REGARDING ENERGY PERFORMANCE CONTRACTS IN

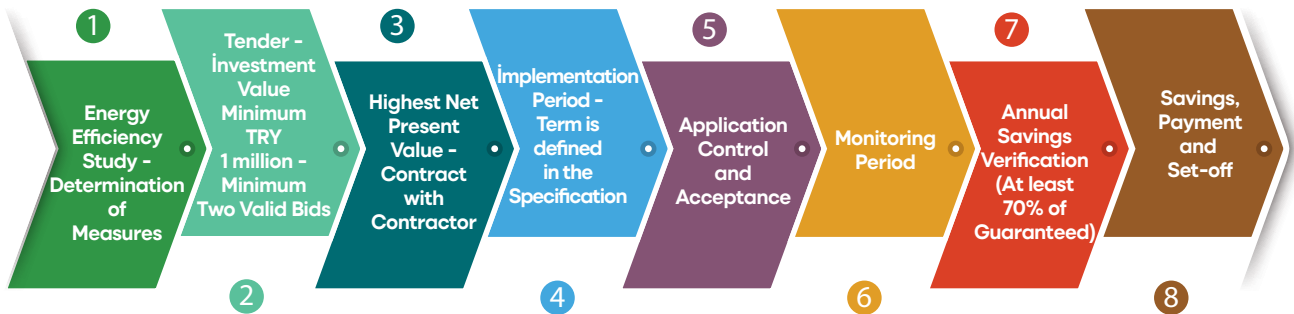
PUBLIC" published by the Presidency of the Republic of Türkiye was held on 11.09.2023. IZGUNES Inc. participated in the tender and the contract was signed on 26.09.2023 as a result of the finalised tender decision.

Project financing will be provided by IZGUNES Inc. without any burden on the public budget. In this way, no investment cost will be paid by Tire Municipality for the SPP Project to be implemented on the roof of Gazi Mustafa Kemal Ataturk Stadium. The payment of the project will be realised with the savings guaranteed for 15 years. With this method, Tire Municipality will save 10% in electrical energy expenses for 15 years. The

facility will be transferred to Tire Municipality at the end of 15 years.

Thanks to the cooperation of IZGUNES Inc. and Tire Municipality, this project, which is known as ESCO in the world and has the feature of Public Energy Performance Contract in our country, will be the third stadium mounted SPP project in Türkiye.

The project, which will start in October, will be completed in January. At the end of the project, with the cooperation of Izmir Metropolitan Municipality, IZGUNES Inc., and Tire Municipality; Tire Gazi Mustafa Kemal Ataturk Stadium will start to produce added value for the people of Tire and Izmir as of January 2024.



Şekil 1: Energy Performance Contract for Public Buildings

SOURCE: <https://enerji.gov.tr/enerji-verimliliigi-eps>

Employees of Izenergy Inc.

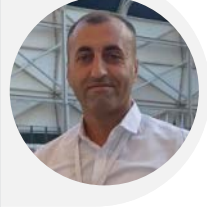


M. Ali PAMUK

I was born in 1982 in Karaman. Before joining Izenergy Inc., I worked in a private software company for 11 years. I am married with 1 child, and I am working as an IT officer in Izenergy Inc. I would like to thank the Izenergy Family.

In 2018, I joined the IZENERGY family as a private security guard. Since July 2020, I have been the DISK GENERAL LABOUR union representative of IZULAS private security guard colleagues. I am happy to be a part of the Izenergy family.

Emrah ATAC

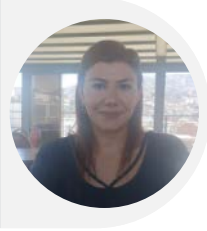


Bülent KILIC

In 2012, I started working as a private security guard at IZSU Tahtali Dam within a subcontractor company. I joined Izenergy in 2018. With the establishment of General-Labour Branch No. 9, I served as Branch President in the enterprising committee. As a member of the Izenergy family, I am happy to have the right to write something in our magazine.

I graduated from associate degree OHS and Computer Programming. I joined Izenergy as a private security officer in 2018. At the same time, I am working as the chief representative in our IZSU Security unit. I am honoured and happy to be under the roof of IMM and IZENERGY.

Mehtap OZDEMIR



Cem KOSE

I was born in 1993 in Izmir. I worked as a security guard in the private sector for 2 years. Then, in 2013, I worked as a security guard in different units in Izmir Metropolitan Municipality. In 2021, I left IMM and transferred to the Izenergy family. In the last 1 year, I have been happily working in the warehouse under the Administrative Affairs unit.

I was born in Austria. I joined Izenergy in 2020. I am married and have one child. I work as a driver in the Directorate of Administrative Affairs. I am honoured to work and serve in the Izenergy family.

Serkan YURTSEVEN

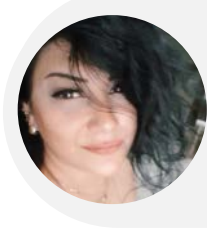


Huseyin UYSAL

I was born in 1991 in Izmir. I was previously working in the private sector. In 2018, I joined the municipality and Izenergy family with the opportunity that came my way. I am working at IMM Movable Goods Registration Branch Directorate. I am content with the department and my job, and I would like to thank the Izenergy Inc. family very much.

In 2023, I joined Izenergy, and I work as a driver in IMM Vehicle Dispatching Department. Previously, I was a driving instructor at a driving school. I have always loved driving and teaching. I do not think that my job has men and women. I am very pleased with this opportunity given to us by the municipality and the company, I appreciate it very much.

Ulku OSKAY

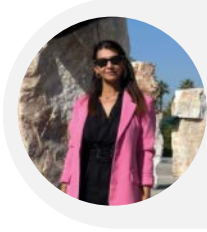


Aylin DEMIRALP

I was born in 1983 in Izmir. I started to work as a brand-new municipal employee in March 2023 at Izenergy, Public Relations Branch Directorate, Office of Administrative Affairs. I am honoured to be included in the family of Izenergy and Izmir Metropolitan Municipality, I am eternally grateful.

In 2018, I joined the IZENERGY family as a private security officer. I fulfil my duty in the Izdeniz Security unit. In 2020, I was organised under the umbrella of DISK GENERAL LABOUR, and I continue my representative duty. I would like to thank all my fellow labourers and IZENERGY for bringing me to this position.

Serkan SALDIZ



Sevgi BILIR

I have a bachelor's degree in Finance. I joined Izenergy Inc. in 2018 and have been working as a private security guard at Metro Inc. for many years. I have been representing our security labourers as the chief representative for about 4 years. It is a great chance for us to be in the Izenergy family. I would like to thank Izenergy and the General Labour Union in which we are organised.

I work as a Translator and Interpreter in the Foreign Relations Branch Directorate of IZENERGY Inc. We have a very dynamic working environment where we gain a lot of experience. I owe the happiness of practising my profession by contributing to the municipality of the city I live in to IZENERGY.

Halil Sergen SATIR



“Izmir International Fair is Turkiye's biggest and richest peace fair, it is a fair of coexistence.”

Tunc SOYER

Mayor of Izmir Metropolitan Municipality



İZMİR
BÜYÜKŞEHİR
BELEDİYESİ

1-10 EYLÜL
SEPTEMBER
2023

92. İZMİR
ENTERNASYONAL
FUARI 2023



İZMİR METROPOLITAN MUNICIPALITY

Kizlragasi Bazaar / KONAK

**“ We will save Kemeralti.
We will create an
ever-alive Kemeralti. ”**

Tunc SOYER
Mayor of Izmir Metropolitan Municipality