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İZMİT BELEDİYESİ

## İZMİT MUNICIPALITY

# STUDIES FOR SUSTAINABILITY AND ADAPTATION TO CLIMATE CHANGE





## İZMİT HISTORY

Izmit has always been an important center due to its geopolitical location. This city, which has a history of about 3000 years, still maintains its importance today. Izmit, which has hosted many civilizations, has been at a strategic point in every period.

The first settlements of the city were seen in the region called Bithynia. After the death of King Zipoites in this region, his son Nicomedes I took his place and BC. in 264, he founded a new city by giving the name Nicomedia (Izmit) to the region 7 kilometers away from Astakos (Basiskele).



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## İZMİT HISTORY

Izmit Archeology Museum





## İZMİT HISTORY

The city, which has become a center of attraction in terms of its region and zoning activities, gained its real importance during the Diocletian period. M.S. On April 1, 284, Diocletian was crowned in İzmit and declared as the Roman Emperor, and then he made this city the capital, where he was crowned.

Thus began the process of Nicomedia becoming the capital of the Roman Empire for forty-six years.

After Diocletian, Galerius became emperor an important development in world history took place during his reign. In the Roman Empire, where Christianity was secretly practiced for years, the "Edict of Tolerance" was declared on April 30, 311, and thus the first steps of the tolerance era were taken in Nicomedia.



## İZMİT HISTORY

### Colored Reliefs of Nicomedia





## İZMİT HISTORY

The Santa Barbara, known as the saint of miners and sailors, was imprisoned in the City Walls, which was built in the 3rd century, protecting the city from external invasion, and was beheaded by her father.

Having an important place in the history of Christianity, St. Although Barbara is referred to as one of the 14 assistant saints, according to the sources of the Eastern Orthodox Church, it was accepted that she reached the rank of martyrdom in the city of Nicomedia as the "Great Martyr"

That is why memorial services are held every year under the leadership of the Greek Patriarchate of Istanbul in the tower where Santa Barbara was rumored to have been killed on December 4.



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## İZMİT HISTORY

### Santa Barbara Tower





## İZMİT HISTORY

Izmit also has an important history in terms of Ottoman history. Turkish domination began in the city, which was conquered in 1337 during the reign of Orhan Gazi, and many structure were built.

The city also played a historical role in the victory of the National Struggle and became a transit and communication route during the Turkish Independence War.

Mustafa Kemal Atatürk started his Western Anatolia Travels and held a press conference in Izmit on 16-17 January 1923. With this meeting, he gave a lot of information about the country to be established and drew a general framework for his vision for the foundation of new Turkish Republic

Izmit has never lost its importance in every period of history and has always preserved its attractiveness with its geopolitical and strategic location.



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## İZMİT HISTORY

Old Town of Izmit





## İZMİT HISTORY

Izmit Municipality is continuously working on a serious of projects in order to reveal these cultural values in Kapanca Street, Akçakoca Square, Inner Castle and Cukurbag district with their tangible and intangible aspects, to evaluate them together with the inhabitants of the city and to make them a part of the daily life.

The most important of these projects is the idea of transforming the examples of civil architecture in the urban protected area into an open-air city museum function that will protect and strengthen social cohesion in times of crisis, with an inclusive and participatory method.



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## İZMİT HISTORY

Cukurbag Nicomedia Excavation Site





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## İZMİT MUNICIPALITY GENERAL KNOWLEDGE





## İZMİT MUNICIPALITY GENERAL KNOWLEDGE

Overall, Kocaeli as a whole is one of the Turkey's smallest province due to its total area in fact industrialization rate with 14.7% share in production of joint industrial production has been one of the leading provinces of our country. In the development category of the country, it ranks 4th after 3 major provinces in Turkey.

As a result of rapid and uncontrolled industrialization the overall city but specifically Izmit province is densely populated and face the problems of uncontrolled urbanization through those years.



## İZMİT MUNICIPALITY GENERAL KNOWLEDGE

Izmit Municipality which serves a population more than 378.656 which equals a larger population compare with the forty cities in Turkey. It undertakes all local services effectively, efficiently and in harmony within its boundaries with its 2047 municipality personnel.

As a central district municipality, daily population of the municipality has reached one million people which put responsibilities to provide efficient services on the areas such as health, environment, technical affairs, cultural and social affairs.

As an industrial city studies are carried out to become a sustainable city aim for reduction of emission rates. The Municipality is intended to be a pilot area for projects focus on energy efficiency, implementation of renewable energy systems and smart city applications.



## İZMİT MUNICIPALITY GENERAL KNOWLEDGE

Izmit Municipality is the first municipality in its region, hosting and sending volunteers under European Volunteers Service program and develops projects related to Youth Program

Izmit Municipality representatives also participated many international projects all around Europe and initiated over 50 organizations to Izmit in several projects. Izmit Municipality is also local relay of Eurodesk Turkey and in order to serve this aim several conferences and trainings have been organized for the youth about EU opportunities.





## İZMİT MUNICIPALITY GENERAL KNOWLEDGE

Izmit Municipality R&D and Project Development Department's EU project experts continues to create cooperation ties with local and European partners through IPA, Erasmus+, and Horizon project applications parallel with municipality's strategic plan as well.

Specifically, with the aim of strengthening international cooperation ties for sustainable development the municipality become a member of ICLEI in 2021 and the first signatory of Circular Cities Declaration from Turkey and a signatory of Covenant of Mayors as well.





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## STUDIES FOR SUSTAINABILITY & CIRCULARITY



## Related Studies for Zero Waste in Schools

As Izmit Municipality, we attach great importance to education. The main aim is to raise environmentally sensitive generations by increasing the environmental awareness of our students at primary school level.

We provide environmental and recycling trainings for schools in our region. Every year, thousands of our students learn to be environmentally friendly, sort out wastes, and protect the environment and nature.

**2022-2024 Number of Recycling Trainings in Schools: 25-30-40**



## Related Studies for Zero Waste in Schools

- ✓ Waste collection competitions are organized between our schools and gifts are given to our schools that are ranked higher.
- ✓ In return for the waste collected from schools every year, material support is provided in line with the needs of our schools.





## Related Studies for Zero Waste in Municipality Buildings

- ✓ Colored waste collection boxes were placed on all floors of the service building. Zero Waste Certificates for our service buildings were obtained from the Ministry of Environment and Urbanization.
- ✓ The garbage bins in the offices in our service building have been removed. In this way, labor and material savings are achieved and wastes are separated at their source.  
In a short period of 3 months, a 60% reduction was achieved in the amount of waste generated in our service building.

Number of Equipment that will be distributed for zero waste goals for the public and private institutions between

2022-2024: 1200-1250-1300





## Related Studies for Zero Waste (Kids Prize Prize Market)

- ✓ As a result of the cooperation with the Izmit City Council, our project called Children's Prize Market was implemented. With this project, children receive books, stationery, food, etc. in return for the waste they bring.
- ✓ Our project is implemented in Hacı Hızır, Çukurbağ and Şirintepe Neighborhoods.
- ✓ Within the scope of the project, a total of 8 tons of recyclable waste was collected in 4 months and educational support was provided to hundreds of students.





## Related Studies for Zero Waste (Izmit Çınar Waste Application)

- ✓ With Çınar Waste Mobile application, you can get information about waste, see the 1475 waste collection points on the map. You can also get directions to the point you want, and share your opinions and suggestions with us through the application.
- ✓ Specifically **Izmit Çınar Waste Mobile Application has achieved to become a candidate for Transformative Action Awards for 2021** as well. The ultimate goal is to spread the zero waste practice throughout Izmit by motivating us even more with the sensitivity of our citizens to the environment.





## Related Studies for Zero Waste (Solid Wastes)

- ✓ Solid wastes (paper, cardboard, plastic, metal, glass) are collected regularly in our region in accordance with the Packaging Waste Control Regulation.
- ✓ In this way, environmental pollution and economic loss is prevented.
- ✓ Solid wastes are regularly collected from 2,200 points within the boundaries of our district. Waste-generating businesses and markets are regularly inspected with this way, 50,000 trees were saved from destruction.
- ✓ All citizens can delivered all kinds of solid wastes to the waste collection centers of the Municipality and able to install respective points to a special card where they can use for consumption of goods in contracted markets.





## Related Studies for Zero Waste (Solid Wastes)

- ✓ 700 containers and cages were left in our neighborhoods.
- ✓ 11,000 indoor boxes were distributed to workplaces.
- ✓ Solid wastes are also collected from these placed piggy banks and boxes.





## Related Studies for Zero Waste (Textile Wastes)

- ✓ 285 textile waste boxes are placed on our streets and alleys and wastes are collected.
- ✓ Textile wastes are recycled and used as insulation material, glue, cloth, fiber etc.





## Related Studies for Zero Waste (Oil Wastes)

- ✓ Waste oils produced as a result of frying and cooking in homes and workplaces both cause environmental pollution, harm human health and destroy wastewater infrastructure systems.
- ✓ Waste vegetable oils are collected daily by our waste collection team from households and schools.
- ✓ 8,000 lt of waste oil was collected from households and workplaces.
- ✓ Waste oil inspections were carried out in 118 workplaces
- ✓ Thanks to the collected waste oils, pollution of huge amount of drinking water has been prevented.





### Related Studies for Zero Waste (Electronic Wastes)

- ✓ All kinds of electrical and electronic goods that have completed their useful life and become scrap are collected by the Municipality.
- ✓ Electronic waste contains substances harmful to human health such as mercury, lead and phosphorus.
- ✓ The collected wastes are separated in special units and recycled.
- ✓ A total of 14,000 kg of electronic waste collected by the Municipal staff.





### Related Studies for Zero Waste (Batory Wastes)

- ✓ Waste batteries contain substances that are harmful to the environment and human health. These wastes should be collected separately and recycled.
- ✓ Waste batteries are collected from households, schools and workplaces by our waste collection team and used in the production of new generation batteries in licensed facilities.
- ✓ A total of 2,400 kg of waste batteries were collected. In this way, pollution of 490,000 m3 of soil was prevented.





## **Related Studies for Zero Waste**

### **Waste Amount Collected by the Izmit Municipality (2021-2024)**

**Amount of Packaging Waste: 3970-4500-5000-5600 tons**

**Amount of Textile Waste: 320-340-360-380 tons**

**Amount of Electronic Wastes: 14-16-18-20 ton**

**Amount of Battery Wastes: 2,5-3-3,5-4 tons**

**Amount of Vegetable Oil: 8-9-10-11 tons**



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**APPLIED PROJECTS FOR  
SUSTAINABILITY & ADAPTATION TO CLIMATE CHANGE**



## Producing City Izmit Project:

Izmit Municipality agriculture production project supports rural development, saves energy resources and increases production possibilities with the city's own resources. The project supports agricultural production by mobilizing local resources belonging to the municipality and while doing that it aims to become an environmentally friendly local administration with using the suitable methods for providing shelter, irrigation and energy needs for the new cultivation areas of the Municipality.



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## Producing City Izmit Project:





## Producing City İzmit Project

**Main Objective:** As a region to become self-sufficient in terms of agricultural production and minimizes the level of foreign dependency in agriculture

### Activities:

- \*Cultivate and produce summer and winter vegetables in Çayırköy-Durhasan regions
- \*Creation of garden of alternative crops by planting jujube and aronia in Emirhan village.
- \*Establishing lavender fields in Karadölbaki and Durhasan Regions.



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## Producing City İzmit Project





## Producing City İzmit Project

### Activities:

\*Planting mulberry saplings for silkworm farming in Süleyman Region

\*Local Wheat Trial Project carried out in partnership with Izmit Municipality and Izmit Chamber of Agriculture in Ambarcı Region

\*To strengthen the domestic producers and cooperatives, Izmit Municipality brought together the Çınar Public Market, which it has been working on meticulously, to the people of Izmit where local producers will be able to sell their products at their real value and will prevent price imbalances created by intermediaries.



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## Producing City İzmit Project





## Ecological Living Garden Project

**Main Objectives:** Contributing to agricultural production and education by giving the city a breath of fresh air with the vision of a producing municipality.  
Making Izmit greener and achieving it at the least cost possible for the municipality.

### Activities:

- Participation of different age groups on soil and production with various trainings and workshops
- To establish a special greenhouse to grow seasonal flowers and ornamental plants to be planted all over the city
- Creation of solar lighting panels and rainwater collection system



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## Ecological Living Garden Project





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**PROPOSED PROJECTS FOR  
SUSTAINABILITY & ADAPTATION TO CLIMATE CHANGE**



## Proposed Projects for Sustainability&Adaptation to Climate Change

**The municipality seek to be a part of project consortiums related to urban and environmental sustainability as follows:**

\*Identification, cataloguing and standardization of good practices of urban intervention based on innovation in energy efficiency in building, industrialized construction, financing, management and governance, participation.

\*The design of integral methodologies in the diagnosis of urban areas, identifying potential, weaknesses and risks.

\* Enabling citizens to act on climate change, for sustainable development and environmental protection through education, citizen science, observation initiatives, and civic engagement.



## Compost Production Facility Project:

The aim of the project is to obtain compost from biodegradable wastes and to use them as fertilizer in the green areas within the borders of our district and to distribute them free of charge to our citizens if our compost machine needs are met.

As a result of feasibility studies, approximately 35 tons of organic waste per week cannot be evaluated in marketplaces and is buried in domestic landfills.

In order to respond the problem works are continuing for stationing Compost Machines into a facility specifically for transforming collected organic wastes from open market areas to composts and give them to famers in order to use them as organic fertilizers for farming activities.





## Solid Waste Separation Facility Project:

With the establishment of Solid Waste Separation Facility, all the wastes will be separated according to their types and sent to relevant recycling facilities. Furthermore, our citizens will be able to leave the coarse solid waste, electronic waste, waste medicine and other waste accumulated in their homes to this facility free of charge.



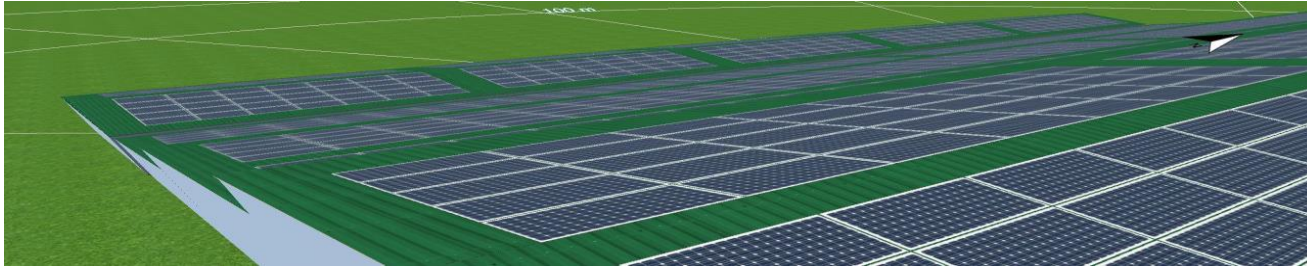


## Modern Animal Market Solar Power Plant Project:

There will be a capacity of 729.6 kWp solar energy system to be installed in the solar power plant according to studies conducted for the roof of Izmit Municipality Modern Animal Market.

The return period on investments to be made with shareholders equity is calculated as 5.2 years.

834.904 MWh of electricity will be generated annually from the solar power plants that are planned to be installed and will be used for the internal consumption of the facility.





## Modern Animal Market Solar Power Plant Project:

Specifically, the installation of these solar power plants, electricity generation equivalent to the energy needs of 537 households will be provided and the annual release of 434,150 tons of CO2 will be prevented. This will make an equivalent contribution to the planting of 11,132 trees in nature.

The possible life circle of the solar power plants to be installed in the Izmit Municipality Modern Animal Market will be at least at least 25 years.



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## INTERNATIONAL PARTNERSHIPS



## ICLEI (Local Governments for Sustainability) Membership



Founded in 1990, the organization is the largest network in the world established for this purpose, with the participation of Local and Regional Governments committed to their commitment to Environmental Sustainability.

ICLEI supports the sustainability policy of cities and aims to create an effective and low-emission, nature-based local action plan. To this end, the organization works closely with the European Commission, the Committee of Regions and many other organizations.

It includes more than 2500 local and regional governments on a global scale and operates in more than 125 countries.





## ICLEI Membership Map

Local governments that are members of the network in Turkey carry out their work depending on the ICLEI European Secretariat.



ICLEI The European Secretariat currently includes members from more than 35 countries in the European Geography.

The total number of local governments accepted to ICLEI membership in Turkey is only 16, including our municipality.





## The First Signatory of Circular Cities Declaration

Cities that signed the European Circular Cities Declaration, which was put into effect in 2020, form an international profile and participate in a platform where they can showcase their activities and work globally, and come together to share and develop their talents with like-minded cities to create a circular economy.

Izmit Municipality is the first signatory of the European Circular Cities Declaration in Turkey and has been accepted as the 59th member of the Declaration.





## Izmit Municipality's Accession for Climate Change Adaptation Mission

- The European Union Climate Change Adaptation Mission, which was initiated by the European Commission and open to application for local governments and regions across Europe, was established by the EU to support local governments in order to become climate resilient by 2030.
- It was emphasized that among the main goals and objectives of the relevant Mission, providing support for the local governments to be selected for the European Commission's Climate Change Adaptation Mission, to build cooperation for the practices to be implemented in this area, and to provide support for the European Green Call and the Climate Adaptation Strategy.
- Our municipality has been one of the **six local governments** that succeeded in being elected to the Climate Change Adaptation Mission implemented by the European Commission, despite not being in the EU Region, among 118 local governments that succeeded in being accepted throughout Europe.



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## SIGNATORIES OF THE MISSION CHARTER

 **AUSTRIA**  
Land Nöderland Österreich  
Römerland Carinthium

 **BELGIUM**  
City of Blankenberge  
City of Hasselt  
Region of Flanders

 **BULGARIA**  
City of Burgas

 **CYPRUS**  
Municipality of Athienou  
Municipality of Pafos

 **DENMARK**  
Region of Central Denmark  
Region of North Denmark  
Region of Southern Denmark  
Denmark  
Region Zealand  
Vordingborg Municipality

 **ESTONIA**  
City of Rakvere  
City of Tartu  
Seue Rural Municipality  
Vinni Municipality

 **FINLAND**  
City of Turku  
Lapland  
Region of Southwest Finland

 **FRANCE**  
Région Île-de-France  
Région Occitanie  
Région Provence-Alpes  
-Côte d'Azur  
Région Normandie  
Région Nouvelle-Aquitaine  
Ville de Paris

 **GERMANY**  
City of Ingolstadt  
City of Bremen  
Gelsenkirchen

 **GREECE**  
Chalki Island  
Municipality of Ampelakipi-Mememisi  
Municipality of Hersonissos  
Municipality of Ikon-Greece  
Municipality of Larissa  
Municipality of Thermaikos  
Municipality of Thessli

Municipality of Veli  
Municipality of Volvi  
Nigros Island  
Skopelos Island  
Thessaly

 **HUNGARY**  
City of Kiskunmajsa  
District center of City of Gyöngyös  
Hajdú-Bihar County  
Jászóker  
Municipality of Püspökszilágy  
Municipality of Szarvas  
Nagyecsed Város  
Önkormányzata  
Ügyleti Község

 **ITALY**  
Municipality of Caserta  
Madderno  
Province of Potenza  
Region of Emilia-Romagna  
Region of Sardinia  
Region of Tarento  
Region of Veneto

 **NETHERLANDS**  
City of Rotterdam  
City of Zwolle  
Municipality of Amersfoort  
Province of Utrecht

 **POLAND**  
City of Elbląg  
City of Gdańsk  
City of Jastrzębie-Zdrój  
City of Konin  
City of Lublin  
City of Ostrowiec  
City of Rąbka-Zdrój  
City of Rębowiec  
City of Rzeszów  
City of Świdnica  
City of Świecko  
City of Turku  
City of Wrocław  
City of Zakopane  
Dolny Śląsk  
Gmina Grotzisk  
Gmina Janikowo  
Gmina Łomża  
województwo podlaskie  
Gmina Miejska Lidzbark  
Warmiński  
Gmina Piszycze  
Gmina Sorkwity  
Gmina Stare Babice

Gmina Włoszów Mała  
Masovian Voivodeship  
Region of Podkarpackie  
Silesian Voivodeship  
Świętokrzyski


 **PORTUGAL**  
Cascais  
Cinco  
Coimbra Region  
Funchal  
Lisbon Metropolitan Area  
Matos  
Médio Tejo  
Vila Pouca de Aguiar


 **SLOVAK REPUBLIC**  
Košice region  
Bratislava District - Rača

 **SPAIN**  
Aragon  
Ayuntamiento de Soutomaior  
Balearic Islands  
Basque Country  
Castilla La Mancha  
Catalonia  
City of Vitoria-Gasteiz  
Comunitat Valenciana  
Extremadura  
Gran Canaria  
La Rioja  
Málaga City Council  
Navarra  
Principality of Asturias  
Province of Granada  
Region de Murcia

 **SWEDEN**  
Region of Blekinge

 **ISRAEL**  
The Sharon Region

 **NORWAY**  
Gjevik kommune  
Trøndelag & Finnmark County

 **TURKEY**  
Bodrum Municipality  
City of Izmit  
Izmit Municipality

ASSOCIATED COUNTRIES



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EUROPEAN UNION



EU  
MISSIONS

ADAPTATION TO CLIMATE CHANGE



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#EUmissions #HorizonEU #MissionClimate



## Izmit Municipality's Accession to the Covenant of Mayors

- The Izmit Municipality signed the Covenant of Mayors for Climate&Energy contract as of December 2022, becoming the 51st local government in Turkey and the first and only one among all local governments in Kocaeli.
- The Covenant of Mayors continues to grow rapidly as the first platform to bring together local leaders on both energy and climate action.
  - By signing the contract, Izmit Municipality, together with other signatory local governments, actively support the EU's target of reducing greenhouse gas emissions by 40%; It is committed to adopting an integrated approach to mitigating the impacts of climate change and becoming a climate-adapted city by 2030, and to providing access to safe, sustainable and affordable energy for all.



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**Covenant of Mayors  
for Climate & Energy  
EUROPE**

