



İZAYDAŞ

İZMİR ATIK VE ARTIKLARI ARITMA
YAKMA VE DEĞERLENDİRME A.Ş.

Temiz Çevre
Sağlıklı Toplum

2023 Annual Report

(v4.01 TR2EN)





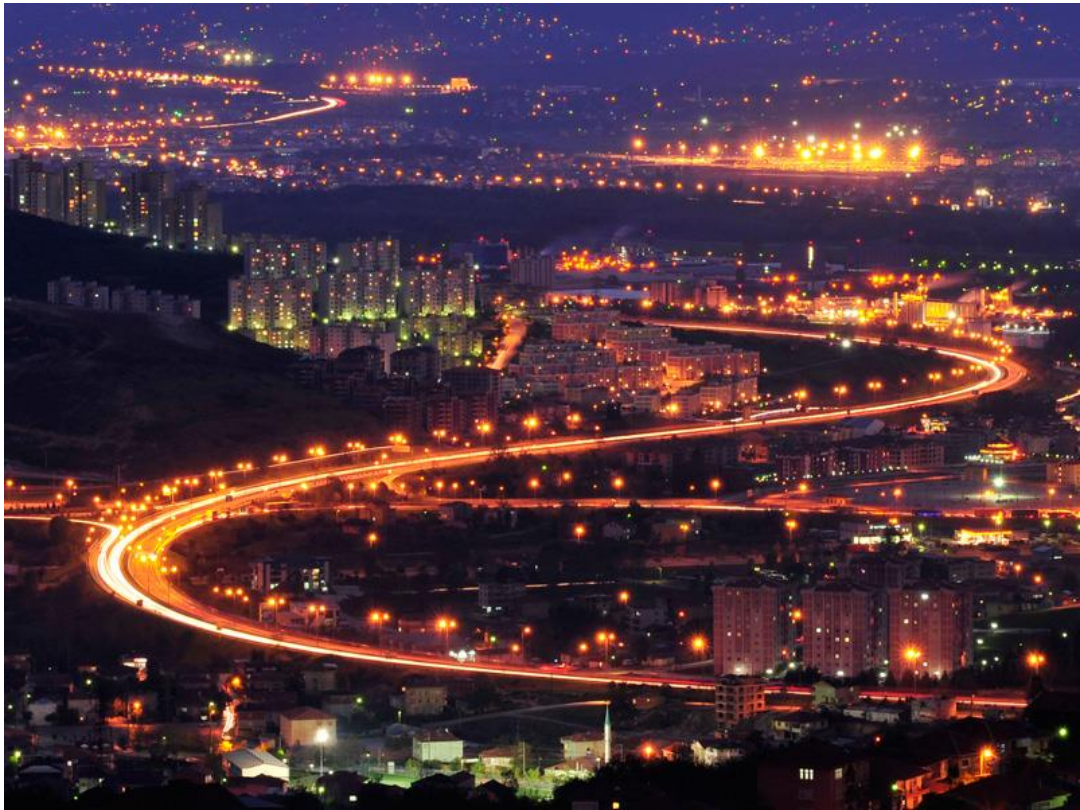
Mustafa Kemal Atatürk (1881 - 1938)

The Founder and first President of the Republic of Türkiye

“We don't need anything, but only one thing; we need to be hardworking!”

Atatürk

(16.01.1923, from his speech with Istanbul Journalists in Izmit)







Assoc. Prof. Tahir Büyükakın
Mayor of Kocaeli Metropolitan Municipality,
President of Marmara Municipalities Union,
Chairman of the Board of Directors of İZAYDAŞ

Dear fellow citizens,

In 2023, following the centenary of our Republic, our world once again encountered problems such as climate changes and environmental destruction. The countries mobilized all their resources to keep up with these rapid changes. The countries which anticipated these changes and took precautions were able to survive environmental disasters with minimal damage. Our country has become one of the countries that managed to cope with environmental problems thanks to its future-oriented work at this point.

We, as Kocaeli Metropolitan Municipality, have generated and are generating solutions that will serve the next century and teach a lesson to the whole world relating to climate change and environmental pollution, which are among the world's biggest problems. Because we know that the most valuable legacy we will leave to our future is a clean and livable environment. As a city, we are playing a significant role in the initiative for the revival of the Marmara Sea.

With the project which we are implementing under the supervision of our Presidency and Ministry, we target to eliminate 8.5 million tons of sludge that has accumulated over the years at the end of the Gulf and remove the dirty sludge from the area. We are cleaning an area the size of 656 football fields. By means of the giant project amounting to 120 million dollars, which will last for five years, we will have achieved a great transformation in Marmara.

We, as İZAYDAŞ, have implemented important practices that will be written in golden letters for the future of Kocaeli in the light of the new Türkiye Century targets. Continuing its work by way of adding value to nature, environment and people, İZAYDAŞ served our city in 2023, by adding success to its exemplary successes in Türkiye. İZAYDAŞ, which has put its innovative solutions into operation with the best opportunities offered by science and technology, has become the pride of our city and our country in many items, from eliminating hazardous waste to energy production. We will carry out exemplary and pioneering work with İZAYDAŞ in the coming years.

We will continue to provide our services without slowing down so that our citizens can live in a greener, bluer Kocaeli. We will continue to prepare our city for the future, build tomorrow today, and work tirelessly for the peace and happiness of our people. Wishing you many more successful years of service in unity and solidarity for a powerful Türkiye and Kocaeli, the world city.

**Assoc. Prof. Tahir Büyükakın
Mayor of Kocaeli Metropolitan
Municipality**



Muhammet SARAÇ
General Manager of İZAYDAŞ

Greetings,

We left 2023 behind, the year when we celebrated the 100th anniversary of our Republic. Immediately following the pandemic period, economic difficulties, Russia-Ukraine crisis, Palestine problem, elections, February 6 major earthquake disaster, internal and external tensions, we demonstrated a good performance in our company in 2023, despite very difficult conditions.

We believe that in order for success to be sustainable, we must develop with ever-increasing effort. Since business life requires constant innovation, change and development. We work with great devotion with all our colleagues working in our company to carry İZAYDAŞ into the future in the best possible way.

Our turnover in 2023 exceeded the 400 Million TL cap. Approximately 4,500 analyzes were performed in our laboratory. 3,500 companies sent their waste, 370 of which were for the first time. We provided transportation services to 1,300 companies with 3,600 trips.

The amount of hazardous waste incoming for incineration was 42,000 tons, and the amount of hazardous waste incinerated was 39,000 tons. In response to these data, our energy production was 15 Million 300 Thousand kWh. 5 Million 150 Thousand kWh of this was sold to the national network.

The total of approximately 36 Million kWh of electrical energy was produced in the LFG facilities installed in our domestic waste landfills. With the production of 9 Million 800 Thousand kWh in our Hydroelectric Power Plant project and a total of 62 Million kWh of electrical energy this year with our Biogas facility, İZAYDAŞ has produced a production which covers the domestic electricity needs of a city with a population of 66 Thousand.

We actually provided service to 3,500 ships entering the Gulf and received 22,000 m3 of waste. We swept 110 tons of waste from the sea surface. The number of our visitors in 2023 was 2,100 people. Our R&D studies continued and we successfully completed major maintenance in our facilities. We invested around 100 Million TL in fixed assets with the support of our metropolitan municipality for all these.

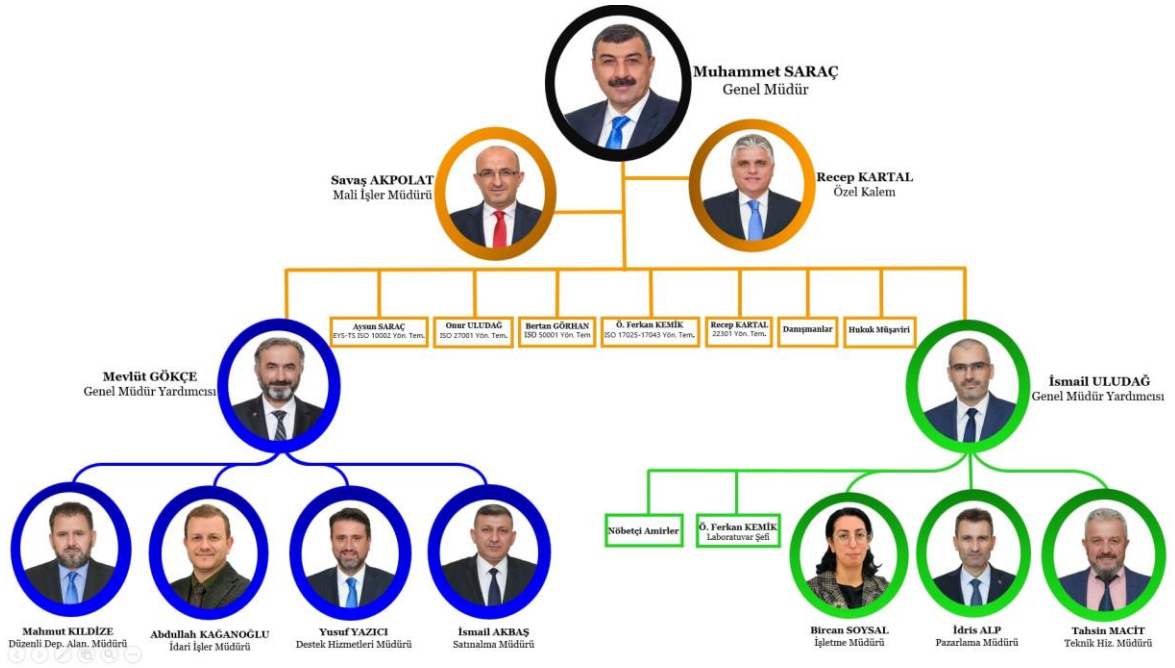
I would like to thank my colleagues who contributed to these studies and contributed to reaching these figures with great devotion.

Under the leadership of Assoc. Prof., Tahir BÜYÜKAKIN who is the Metropolitan Municipality Mayor of Kocaeli and Chairman of the Board of Directors of İZAYDAŞ, we will continue to serve our country and our city jointly with our board of directors, managers and all our colleagues.

I would like to thank all our stakeholders, our customers especially, for their support and contribution, and I hope that 2024 will be beneficial for Türkiye and all humanity.

Muhammet SARAÇ
General Manager

OUR MANAGERS



INTEGRATED MANAGEMENT SYSTEM

Certification Body Audits (Third Party Audits)

The integrated management system surveillance audit was conducted by the certification body Qualityst on 11-12.09.2023. The compliance of quality management system applications within the scope of the integrated management system with the ISO 9001:2015 standard, the compliance of environmental management system applications with the ISO 14001:2015 standard, and the compliance of occupational health and safety management system applications with the ISO 45001:2018 standard have been audited and certified.

The Customer Satisfaction – Complaint Management System surveillance audit was conducted by the certification body participation on 17.01.2023. The compliance of management system applications with the ISO 10002:2018 standard was audited, the audit was completed successfully and it was decided to maintain the certificate.

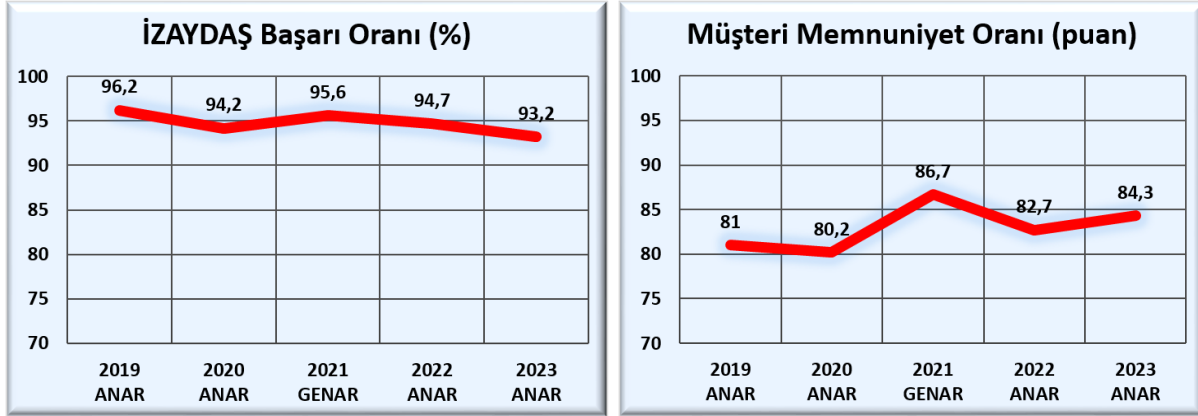
Integrated Management System was established in 2006 with the integration of ISO 9001 Quality Management System, ISO 14001 Environmental Management System and ISO 45001 Occupational Health and Safety Management System, and you may find the certificate renewals and additional certifications indicated in the table below.

Management System	First issue date	Last Document Renewal Date	Expiry date
ISO 9001:2015 Quality Management System	21.08.2006	08.10.2021	26.08.2024
ISO 14001:20015 Environment Management System	21.08.2006	08.10.2021	26.08.2024
ISO 45001:2018* Occupational health and Safety Management System	21.08.2006	08.10.2021	08.10.2024
ISO 10002:2014 Customer Satisfaction Management System	17.01.2013	27.01.2022	04.01.2025
ISO 50001:2018 Energy Management System	02.12.2014	15.12.2023	10.12.2026
ISO 27001:2013 Information Security Management System	10.04.2018	28.06.2021	10.04.2024
ISO 17025:2012 Laboratory Accreditation	22.12.2011	10.01.2020	17.04.2024
ISO 17043:2013 Laboratory Proficiency Testing Provider Accreditation	07.08.2014	24.03.2023	01.12.2026

**The Occupational Health and Safety Management System, which was certified according to the OHSAS 18001 standard in 2006, was certified according to the ISO 45001:2018 standard in 2021.*

Customer Satisfaction Research

The customer satisfaction research was conducted by a survey method by an outsourcing research company. The research; was applied to four customer groups: loyal-irregular customers, potential customers, customers receiving laboratory services and customers receiving proficiency testing services. The research results were reported by the research company from which the service was received and an information presentation was made on 23.02.2023. Based on the results, the rate of customers finding İZAYDAŞ successful is 94.7% and customer satisfaction is 82.7 points. According to the research results, issues in need of improvement were followed by action planning.



İZAYDAS Success Rate (%)

Customer Satisfaction Ratio (points)

ENVIRONMENTAL MANAGEMENT SYSTEM

Temporary Activity Certificate / Environmental Permit and License Certificate

Since the current Environmental Permit and License Certificate will expire on 24.08.2022, renewal works have been commenced. Due to the amendment made in the Environmental Permit and License Regulation on 16.10.2021 and the Regulation on the General Principles of Waste Pretreatment and Recovery Facilities published on 09.10.2021; Since the following obligations have been imposed;

- ✓ Obtaining a Pre-Process license for Collection-Separation Facilities (TAT),
- ✓ Licensing the hazardous waste recovery license as a hazardous waste pre-treatment license,

the new Environmental Permit and License Certificate, effective/valid until 18.08.2028, which includes all activities, was received on 18.08.2023.



Studies within the Scope of Zero Waste Certificate

With the aim of preventing waste, using resources more efficiently, reducing the amount of waste, and leaving a clean world for the future by recycling waste, we have been conducting the separate collection of packaging waste activities within the Company since 2011. With the entry into force of the Zero Waste Regulation, we became the first business in Kocaeli to receive a Zero Waste Certificate. With the success of becoming a facility, the work continued in 2023.

The amounts of packaging waste sent for recycling within the scope of zero waste are given in the table below.

Year	2019	2020	2021	2022	2023
QUANTITY (KG)	20.140	18.140	22.080	17.430	8.060

Kocaeli Chamber of Industry – Şahabettin Bilgisu Environment Awards

"Kocaeli Chamber of Industry Şahabettin Bilgisu Environmental Awards" award program has been organized by Kocaeli Chamber of Industry since 1995 in order to reward industrial organizations that contribute to the development of environmental awareness, protection and improvement of the environment. In the award organization held for the 29th time in 2023, the companies that applied were assessed by being part of the Field Audit Team in order to find the winners of the environmental awards in the Large-Scale Company and SME categories. An Award Ceremony was organized and presented by Kocaeli Chamber of Industry on 15.06.2023 for the businesses that were rewarded as a result of the evaluations.

Environment Inspections

An inspection was conducted by the Ministry of Environment, Urbanization and Climate Change within the scope of Environmental Permit and License Application on 24.03.2023. On 04.08.2023, a sudden inspection was conducted by the Provincial Directorate of Environment, Urbanization and Climate Change within the scope of Waste Interim Storage - Non-Conformity Letter Physical Conditions Control. No nonconformities were ascertained during the inspections.

ISO 14064 Corporate Carbon Footprint Calculation Study

2021 - 2022 yılı İZAYDAŞ Karbon Ayak İzi Raporu hazırlanmıştır. QSI Certification Inspection and Testing Services Ltd. for the calculation and reporting of the carbon footprint resulting from all activities of İZAYDAŞ (İzmit, Derince and Yuvacık Facilities) in line/accordance with ISO 14064-1: 2018 Corporate Carbon Footprint Standard. A contract was signed with Şti. 2021 was taken as the base year and meetings and studies relating to reporting were held during the year. İZAYDAŞ Carbon Footprint Report for 2021 - 2022 has been issued.

ENERGY MANAGEMENT SYSTEM

Energy Management System Certificate

ISO 50001:2018 standard certification audit of the Energy Management System for 2023 was conducted by the certification body KALİTEST on 07-08.12.2023. As a result of the audit, the documents showing the compliance of the Energy Management System being implemented with the relevant standard were renewed and our certificate was renewed until 10.12.2026.

LABORATORY

İZAYDAŞ Laboratory has managed to increase its paid analysis revenues compared to the previous year by closely following the legal and commercial developments in the sector.

İZAYDAŞ Laboratory provides services within the following scopes;

- In the Test Area with ISO 17025 Accreditation Certificate; Water, Wastewater, Sea Water, Pool Water, Waste, Soil, Sewage Sludge, Waste Oil, Insulation Liquids, Precious Metals, Medical Waste, Solid Fuel (Coal), Emission and Immission;
- In the Sampling Area; Rivers and Streams, Groundwater, Lakes and Ponds, Sea Water, Solid Wastes, Sludge Samples from Sewage Water and Treatment Facilities, Sampling from Surface Soil, Manual Sampling from Petroleum Liquids, Sampling from Insulating Fluids, Emission and Immission Measurement and Sampling;
- In the Field of Proficiency Testing with ISO 17043 Accreditation Certificate; it provides services within the scope of Waste, Water, Waste Water, Waste Oil, Sea Water and Soil.

Our analysis parameters within the scope of TÜRKAK Accreditation Certificate and Qualification Certificate are available and published on on TÜRKAK website www.turkak.org.tr, website of Turkish Ministry of Environment, Urbanization and Climate Change <http://laboratuvar.cevre.gov.tr> and on the website of İZAYDAŞ www.izaydas.com.tr.

Year	2019	2020	2021	2022	2023
Declaration and Paid Analyzes	1.164	1.186	2.426	2.836	2671

Waste acceptance analysis	684	206	186	195	47
Business Analysis	2.218	1.917	2.136	1.905	1860
Total	4.066	3.309	4.748	4.936	4578

ACCOUNTING

You may find İZAYDAŞ's income sources listed as follows:

- Incineration Proceeds
- Industrial Waste Storage Revenues
- Hazardous Waste Storage Revenues
- Inert Waste Landfill Revenue
- Private Transaction Revenue
- Municipality Domestic Waste Revenues
- Industry Domestic Waste Revenues
- Energy Revenues
- Ship Waste Revenues
- Laboratory Revenues
- Other Revenues (Waste transportation, intermediate storage, etc.)

Independent Audit

In line/accordance with the Turkish Commercial Code (TCC) No. 6102, our company has been included in the scope of compulsory independent audit and has been certified by Independent Auditor Etken Independent Auditing and YMM A.Ş. A contract was made with. The opinion given in the Independent Audit Report; The financial information included in the annual activity report of the board of directors is consistent with the audited consolidated financial statements in all material respects and reflects the truth.

In the section of other liabilities arising from the legislation, it has been indicated that in line/accordance with the third paragraph of Article 402 of the Turkish Commercial Code (TCC) No. 6102, there is no significant uncertainty relating to whether the business will be able to continue its activities in the foreseeable future within the framework of continuity, according to BDS 570.

ADMINISTRATIVE AFFAIRS DIRECTORATE

ADMINISTRATIVE AFFAIRS

An inspection was conducted within the scope of the Nutrition-Friendly and Physical Activity-Supporting Workplace Application we filed to the Provincial Health Directorate, and as a result of the inspection, it was considered appropriate to issue a certificate to our workplace.



The parking lot was completed by the KBB Department of Technical Affairs by way of laying 8,400 m³ of excavation, 6,400 m³ of filling material, 3,350 tons of plantmix base material, 2,410 tons of bituminous asphalt and 1,550 tons of binder asphalt in the guest, personnel and waste vehicle parking lot.



SUPPORT SERVICES

Hazardous Waste Transportation

In line/accordance with the Environmental Law and the Communiqué on the Transport of Waste on Highways; Hazardous waste shall be transported by persons, institutions or organizations that have a transportation license from the relevant governorship.

İZAYDAŞ provides hazardous waste transportation services with its 11 licensed vehicles and 13 certified drivers. As of 2023, it has provided 16,580.53 tons of hazardous waste transportation services. In addition, 1,013.13 tons of sludge, hazardous waste and domestic garbage were transported from Derince Waste Reception Facility to Izmit Facility in a total of 256 trips.

Transported from companies	Units	2019	2020	2021	2022	2023
Waste oil	Ton	0	0	0	0	0

Dangerous waste (Tons, Trips, Km)	Tons	10.272,24	8.823,11	14.174,03	16.242,16	16.580,53
	Trips	1.662	1.427	2.238	2.591	2.765
	Km	163.201	125.333	211.461	251.789	275.520
Derince Port Bilge, Sludge, Threat. Waste, Domestic Garbage (Number of Trips, Tons, Km)	Trips	241	303	318	367	256
	Tons	1.361,40	1.935,28	1.984,97	2.097,89	1.013,130
	Km	15.678	19.840	23.647	25.672	17.642

DIRECTORATE OF PROCUREMENT

PURCHASING

Purchasing made by way of direct procurement in 2023 was;

- 20.509.185,63 TL of purchase of goods,
- 13.456.968,54 TL of purchase of services,
- 6.750,00 TL construction work,

TENDERS AND CONTRACTS

In 2023, a total of 48 tenders were held within the scope of 14 income-generating works with a contract value of 14,965,203.10 TL and 34 works with a contract purchase value of 180,378,729.25 TL + VAT.

MARKETING DIRECTORATE

MARKETING ACTIVITIES

- 119 company visits were made.
- 4,027 telephone calls were made.
- 3,123 price offers were sent.
- 1,764 wastes from waste producers were accepted to our incineration facility and 329 wastes to our landfills.
- 313,980 kg of notified waste (unclaimed) was disposed of in our facility.

RECEIVED WASTE QUANTITIES

Amounts of Waste Arriving at the Incineration Plant

Year	2019	2020	2021	2022	2023
Incoming (ton)	42.137	37.956	39.640	41.950	48.200

Amounts of Waste Arriving at the Incineration Plant (from the Customers)

Yıl	2019	2020	2021	2022	2023
1st class warehousing (tonnes)	42.947	44.585	51.715	52.846	43.819
2nd class warehousing (tonnes)	18.760	13.991	33.024	55.997	46.487
Total (tonnes)	61.706	58.576	84.739	108.843	90.306

MARINE SERVICES

Ships Served and Revenues Obtained

Year	2019	2020	2021	2022	2023
Number of Ships from which Waste is Received (number)	3.409	3.454	4.193	3.970	3.790

İZAYDAŞ Seaplane Flight Hours (minutes)

Year	2019	2020	2021	2022	2023
İZAYDAŞ	2.235	1.060	720	1325	100
TÜÇA	-	-	-	-	14.450
İSKİ	5.505	0	0	0	0
KBB Environment Protection	4.675	6.405	9.095	11.990	2.770
Total	12.415	7.465	10.970	13.315	17.320

ENTERPRISE DIRECTORATE

ENTERPRISE

Clinical and Hazardous Waste Incineration and Energy Production Facility

The operating principle of the facility, which has a burning capacity of 5,400 kg/hour, is to burn flammable plastic wastes from industry, used oils, pharmaceutical and cosmetic wastes, petrochemical wastes, PVC, solvents, paint wastes, adhesives and adhesives, treatment sludges, etc. which is based on the disposal of hazardous waste and clinical waste by burning.



Wastes Disposed of by Incineration

Data relating to the wastes disposed of by incineration in the incineration facility in line with the waste acceptance criteria are given in the table below. 144,474 Sm³ of natural gas was consumed as additional fuel in the combustion facility in 2023.

Year	2019	2020	2021	2022	2023
Units	ton				
Total	40.910	36.751	39.980	38.838	39.065

Flue Gas Emission Values

2023 Incineration Plant Flue Gas Emission meets all standards of relevant regulations.

Incineration Plant Performance

As of the end of 2023, the facility's total operating hours were 7,549 hours, incidental downtime hours were 539 hours, and planned maintenance downtime hours were 672 hours.

Incineration Plant Energy Production

39,065 tons of these wastes were burned, and 15,294,910 kWh of electrical energy was produced within the framework of the 49-year electricity production license in 2023. 11,070,240 kWh of this was consumed at the facility, 5,101,970 kWh was sold to TEİAŞ and 903,500 kWh of electricity was purchased.

	kWh	2019	2020	2021	2022	2023
Produced Electricity	kWh	17.686.800	16.235.000	16.937.400	15.338.800	15.294.910
Purchased Electricity	kWh	777.969	896.901	1.022.276	954.598	903.500
Consumed Electricity	kWh	13.219.129	11.764.216	11.924.374	11.007.272	11.070.240
Sold Electricity	kWh	5.245.640	5.367.685	6.035.302	5.286.126	5.101.970

RECYCLING

Medical Waste Collection, Transport and Disposal Work

Medical waste generated in all health institutions within the borders of Kocaeli province is collected by licensed medical waste transportation vehicles and transported to the İZAYDAŞ site. After the infected medical wastes are sterilized and shredded in the Medical Waste Sterilization Facility, they are ultimately disposed of in the Class 2 Regular Landfill. Pathological wastes are burned in the Hazardous Waste Incineration and Energy Production Facility.



You may find the amount of medical waste collected in Kocaeli province shown in the table.

Year	2019	2020	2021	2022	2023
Total Amount of Medical Waste (kg)	2.337.337	2.889.970	3.212.660	2.955.488	2.977.314
Amount of Pathological Waste (kg)	46.342	43.858	47.687	58.904	58.578

Bio-gas Plant

The biogas is obtained as a result of anaerobic digestion by using cattle manure, fruit and vegetable waste, rumen waste, grass and process-compatible food industry waste in the Biogas Facility. The produced gas is converted into electrical energy with the help of a gas engine. The heat energy generated by cooling the gas engine is used to heat reactors operating under mesophilic conditions.



The amount of waste taken into the facility and the amount of fermented product coming out of the facility is given in the table.

Type of waste	2019	2020	2021	2022	2023	Units
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Grass	100	320	1.882	4.306	10.360	kg
Chicken manure	0	0	0	667.340	0	kg
Cattle Manure	3.345.460	2.724.620	4.459.840	5.055.110	5.657.650	kg
Fruit-Vegetable	2.905	21.224	10.405	14.053	12.397	kg
Rumen Waste	45.430	158.070	228.320	271.080	215.740	kg
Other	71.900	689.580	1.024.400	1.330.868	804.823	kg
Total	3.465.795	3.593.814	5.724.847	7.342.757	6.700.970	kg

Fermented Product	2019	2020	2021	2022	2023	Birim
Solid Fermented	200	2.280	7.920	32.020	33.860	kg
Liquid Fermented	3.237.080	3.605.020	5.870.000	7.794.000	6.276.000	Kg
Total	3.237.280	3.607.300	5.877.920	7.826.020	6.309.860	kg

The amount of Energy produced is given in the table below.

Year	2019	2020	2021	2022	2023
Energy (kWh)	27.700	18.800	71.600	198.700	167.300

ATY Plant

With the idea of converting industrial hazardous wastes, including bulky wastes, into fuel, work has been initiated to establish a Refuse-Derived Fuel (RDF) Facility within İZAYDAŞ. The facility construction has been completed and the RDF facility process main equipment orders have been installed.

The basic components of the RDF facility are crushers, conveyors, equipment to separate materials according to weight and size, fire and ventilation equipment and work machines.



Year	2021	2022	2023
Amount of waste medicine disposed of	918 kg	6.675 kg	8.307 kg



ÇŞİDB-UNIDO-İZAYDAŞ HPMP Project

Within the scope of the HPMP project; in order to improve our country's recovery, recycling and reclamation infrastructure, UNIDO provided equipment support to three companies operating or planning to operate in this field, in line with their needs in this regard.

In project scope; the equipment was installed and a preliminary demo study of the project was conducted by training in November.



WASTE ACCEPTANCE PLANNING

Preliminary process quantities

You may find the amount of pre-treatment of waste (liquid compartment, powder compartment, amount of packaging for recycling, etc.) on a yearly basis shown in the table.

YEAR		Units	2018	2019	2020	2021	2022	2023
Adjusting various liquids or powders to the desired weight		kg	110.500	183.571	118.430	220.745	147.065	262.000
Amount of Contaminated Packaging Going to Recycling	Plastic	kg	22.390	25.030	14.920	16.740	24.620	15.640
	Metal	kg	151.340	163.860	101.740	90.770	83.550	57.420

Amount of IBC Going for Recovery		number	2.425	1.267	821	657	320	473
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DIRECTORATE OF REGULAR STORAGE AREAS

REGULAR STORAGE AREAS

The total amount of (in 2023); 651,242 tons of municipal domestic waste (Class II) and 54,836 tons of Hazardous Waste (Class I) were disposed of by storing them in Regular Landfills.

İzmit Landfill Site	Units	2019	2020	2021	2022	2023
Amount of Hazardous Waste (Class I)	ton	59.058	56.819	63.028	68.213	54.836
Domestic Industry. Waste Quantity (Class II)	ton	19.408	15.992	33.799	41.320	47.300
Amount of Domestic Waste (Class II)	ton	633.468	663.720	642.384	590.251	651.242

Landfill Gas (LFG) / Energy Production Project
İzmit Sanitary Landfill

A tender was held on 23.06.2010 for the Construction and Operation of İZAYDAŞ İzmit and Dilovası Domestic Solid Waste Sanitary Landfill Landfill Gas (LFG) Electricity Production Plant. As the result of the tender, İzmit Storage Facility started electricity production on 02.03.2012, as a result of the electrical connections and the completion of electricity production. The total gross amount of energy produced in 2023 was 33,896,160 kWh/year.

Year	2019	2020	2021	2022	2023
Gross Produced Energy (kWh/year)	26.251.650	33.663.420	49.575.710	47.394.993	33.896.160
Energy Sold (kWh/year)(*)	24.902.720	32.056.240	47.569.810	45.047.215	28.396.950

(*) It refers to the net electrical energy given to the network after transformer and busbar losses.

Dilovası Sanitary Landfill

There are two gas engines in the Dilovası Sanitary Landfill. The engines have an installed capacity of 1,063 MW and the facility operates at full capacity for more than 8,000 hours per year. Dilovası Storage Facility started producing electricity on 24.10.2015 as a result of the electrical connections and the completion of electricity production. The total gross amount of

energy produced in 2023 was 1,943,350 kWh/year. Since waste is not removed, energy production has decreased.

Year	2019	2020	2021	2022	2023
Gross produced energy (kWh/yıl)	6.177.303	3.939.120	2.976.370	2.286.340	1.943.350
Energy sold (kWh/year ^(*))	5.762.160	3.649.438	2.810.734	2.092.200	1.858.531

(*)It refers to the net electrical energy given to the network after transformer and busbar losses..

The validation processes for the carbon credits of both fields are ongoing.

Groundwater / Leachate Analysis

In line/accordance with the "Regulation on the Regular Storage of Waste", samples were taken from the Groundwater Wells and Leachate Collection Manholes located in İzmit and Dilovası Landfills and analyzed in 2023.

Significant Projects Commissioned in 2023

On 05.06.2023, concrete road construction work was completed on the roundtrip and waste dump route of Lot 7 A area. It was opened for use on 30.06.2023.



The 2,580-meter collector line was cleaned regularly in 2023 by taking camera images up to the İSU main connection point by means of outsourcing.



LABOR HEALTH AND SAFETY

Work Accidents

The number of minor and major work accidents has been recorded as 33 as of the end of December 2023. First aid, medical intervention and hospital transfer were provided to 33 victims of 33 work accidents. 26 working days were lost due to 33 work accidents in 2023.

We keep the track of number of accident-free working days in our facility on our board located above the shift supervisor. If there are two or more lost working days in our dashboard as a result of accidents experienced by İZAYDAŞ employees, we reset our dashboard. 45 accident-free working days have been recorded as of 31.12.2023. Our record for accident-free working days is 568.

With the objective to test the TAMP-Kocaeli Disaster Response Plan and its annexed disaster group plans within the disaster response system and to improve inter-institutional cooperation and coordination, a table-top-field exercise was held simultaneously at 14.00 on Wednesday, November 15, 2023, in different locations. The intervention, ensuring area safety and intervention processes were observed in the announced drills held in the İZADAŞ Hazardous waste R&D Area (Old Truck Parking Area), in which KBB, its subsidiaries and our institution were involved.

PUBLIC RELATIONS

Organizations which we attended to

We, as İZAYDAŞ, a leading organization in environment and waste management, one of the subsidiaries of Kocaeli Metropolitan Municipality, we take care to meet with waste producers at every opportunity, with our increasing capacity and innovations implemented in favor of waste producers, as well as with Metropolitan Municipality organizations. Participation in ten organizations was made in 2023.

Name of the event	Date	Place
INTERNATIONAL ZERO WASTE DAY	30.03.2023	KOCAELİ
IFAT EURASIA – INTERNATIONAL ENVIRONMENTAL TECHNOLOGIES FAIR	27-29.04.2023	İSTANBUL
IREMCON CONFERENCE - TÜYAP	27-28.04.2023	İSTANBUL
VIII. ISTANBUL CARBON SUMMIT - ITU SDKM	02.05.2023	İSTANBUL
Türkiye ENVIRONMENT WEEK EVENT	05.06.2023	KOCAELİ
KSO ŞEHABETTİN BİLGİSU ENVIRONMENTAL AWARD CEREMONY	15.06.2023	KOCAELİ
WORLD CLEAN UP DAY EVENT	16.09.2023	KOCAELİ
13.TURKTAY PANEL HILTONSA	18.19.10.2023	ANKARA
EIF 17th WORLD ENERGY CONGRESS AND FAIR	17.11.2023	İSTANBUL
CLIMATE CRISIS - CARBON FOOTPRINT AND WE CONFERENCE	08.11.2023	KOCAELİ

INTERNATIONAL ZERO WASTE DAY - KOCAELİ



IFAT EURASIA INTERNATIONAL ENVIRONMENTAL TECHNOLOGIES FAIR – İSTANBUL



IREMCON INTERNATIONAL ENVIRONMENTAL CONFERENCE – İSTANBUL



VIIIth İSTANBUL CARBON SUMMIT - İSTANBUL



TURKIYE ENVIRONMENT WEEK EVENT – KOCAELİ



KSO ŞAHABETTİN BİLGİSÜ 29TH ENVIRONMENT AWARDS – KOCAELİ



WORLD CLEAN UP DAY EVENT – KOCAELİ



EIF 17th WORLD ENERGY CONGRESS– İSTANBUL



13rd TURKTAY PANEL – ANKARA



CLIMATE CRISIS, CARBON FOOTPRINT AND WE CONFERENCE – KOCAELİ



Our visitors

In 2023, the number of visitors welcomed by İZAYDAŞ from schools, local and foreign institutions, municipalities, associations and foundations, and chambers was 2,100.

Year	2018	2019	2020	2021	2022	2023
Number of visitors	4.961	3.142	1.316	526	2.362	2.100



İZAYDAŞ

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Sağlıklı Toplum

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