

# SUSTAINABILITY REPORT 2020







# SUSTAINABILITY REPORT 2020







## About Our Report

In our ninth Sustainability Report for 2020, we continue to convey the progress and results of our efforts that guide our economic, environmental and social performance to our stakeholders. We give our stakeholders the opportunity to evaluate the measurement, monitoring and improvement efforts we carry out in managing our impacts arising from our activities in 2020.

### Report Scope

The information in our report encompasses İÇDAŞ's operations at all of its facilities between 1 January 2020 and 31 December 2020, unless specified otherwise.

### Reporting Principles

We have prepared our report in accordance with the Basic option of GRI Standards. In addition to GRI's principles of materiality, stakeholder engagement, sustainability context and integrity, we took into account the World Steel Association's sustainable steel production performance indicators and the International Financial Institution's (IFC) Sustainability Performance Standards..

### Our Future Report

We plan to publish our future report in 2022, in which we aim to convey our sustainability performance in 2021.





# Message to Our Shareholders

## Dear Stakeholders,

We continue to convey to you our economic, social and environmental performance in 2020 and how we manage our impacts within the scope of sustainability in our eighth sustainability report, which also includes our goals and practices.

İÇDAŞ is a steel, energy and ship producer with employer, contractor and investor characteristics in addition to its environmentally friendly and innovative technologies. We operate in the steel and energy sectors, which are critical for Turkey to maintain a strong economic structure.

## Our Contributions to the Economy

Our country became the 7th largest producer of crude steel with 35.8 million tonnes produced in 2020. As İÇDAŞ, we realized 9.11% of Turkey's crude steel production at our Değirmencik Integrated Plant located in Biga, Çanakkale. In the energy sector, İÇDAŞ's production reached 3.78% of the total electricity produced by the private sector and the state throughout Turkey with 11.54 billion kWh in 2020. We see that all the investments we make in our business also contribute indirectly to the country's economy and society. Upon examining our economic impacts, our growth investments, local and national economic contributions were this year's highlights as well. Our environmental and social investments are based on our strong financial structure.

Our direct investment in Çanakkale to date is over 5.66 billion dollars, of which approximately TRY 213.4 million is in 2020. Locals constitute 77% of our employees.

## Value Given to Our Employees and Society

In addition to occupational health and safety in all our activities and investments, our priority social impacts are our relations with our employees and the local public. We care about providing a safe, efficient and fair working environment for our employees, communicating with them openly, and recognizing opportunities for personal and professional development. We continue our activities with a target of zero accidents. Since our establishment as İÇDAŞ, we continue to invest in improving the quality of life of the society, improving social life with educational and sports opportunities and meeting social needs.

We continue our investments in seven different historical points with a holistic approach that appeals to the whole community in our region and protects our cultural heritage.

## Our Sensitivity to the Environment

Because we operate in sectors with high environmental impacts, we are working beyond the expectations of the law to keep these impacts to a minimum. Our practices within the scope of emissions management, which we continue for climate protection purposes, waste management, which we conduct to prevent environmental pollution, and water management, which we have initiated with the goal of protecting natural resources, constitute an important part of our business.

The total budget allocated for environmental protection in 2020 is approximately TRY 239 million. Our primary goal in waste management is to recover waste. Our recycling rate this year was 59% in Deđirmen- cik and 83% in Bekirli.

Since 2007, we have been managing the water issue at İÇDAŞ Deđirmencik Integrated Plant under the 'Sustainable Water Management Project'. In 2020, we reused 322 million m<sup>3</sup> of water through the treatment process, while meeting all our water needs, including fresh water, from the sea. Environmental activities accounted for 88% of our operating and invest- ment expenditures in emission reduction and climate protection costs.

As İÇDAŞ, we aim to continue to increase the value we create for our stakeholders while carrying out our activities with the goal of sustainable growth. Sharing your questions and other ideas and suggestions about the information contained in this report with us will help us create more value for you.

Best regards,

**Tarık YEGÜL**

General Manager



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Total Installed Power

1.706,85  
MW



Electricity Production

11,54 BILLION  
kWh



Raw Steel Production

3,26 MILLION  
Tonnes



Consolidated Net Sales

15.733  
Billion TL



Environmental Investments

239.11  
Million TL

Distribution of Net Sales

- % 66,28 Steel
- % 30 Energy % 3,72 Other



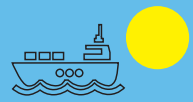
**We Realize**

**% 9,11**  
of Turkey's  
steel production



**We are the one of the**

First **2.**  
exporters  
of steel in  
Turkey



**Export Volume**

**799**  
Million \$



**Our Social Investments**

**25.39**  
Million TL

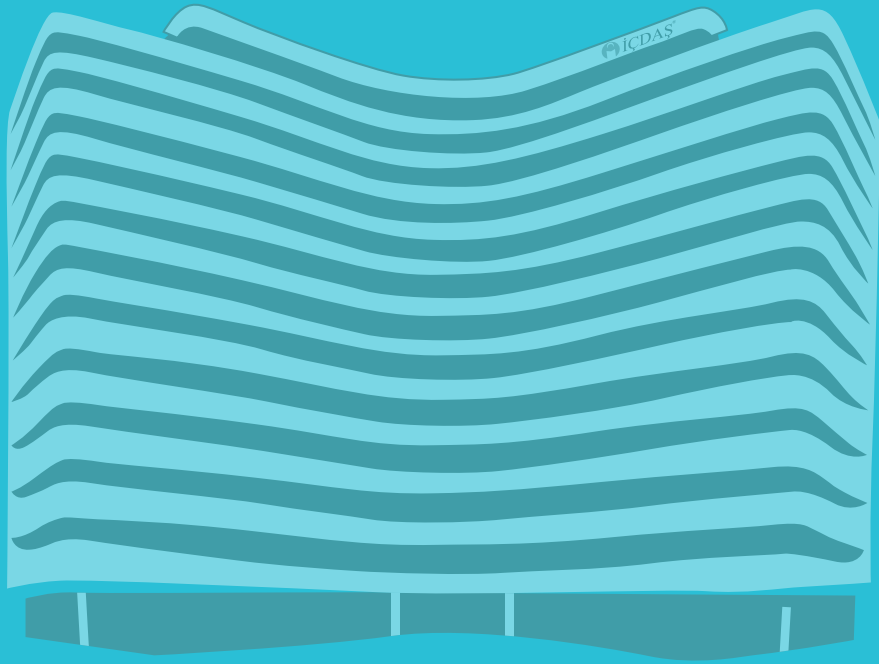




İÇDAŞ®



İÇDAŞ®





# Corporate Profile

Since 1970, we are among the top steel producers in our country in the steel production. We are one of the biggest producers of steel among the largest private sector steel producers with regard to our production capacity. We maintain our top rank in the export listing prepared in the sectoral basis each year.

In addition to steel production, which is our main field of operation, we conduct our activities in the fields of energy, shipyards, logistics (sea, land), transportation (air), port management, ship management, construction, insurance, mining, agriculture and animal husbandry with the same precision.

Our Değirmencik Integrated Plant in Biga, Çanakkale features three steel plants with a capacity of 4,5 million tons/year and four rolling mills with a capacity of 4 million tons/year.

As to capacity, the biggest construction steel processing rolling mill of our country is in our plant with 1.9 million tons/year. Of our two shipyards, Aksaz Shipyard (dry pool) have been operationalized in 2020, and is the first and only shipyard which has the capacity to manufacture an aircraft carrier in our country. Three-unit 405 mW thermal power plant, four HPP, one SPP, two piers, two dock are among the largest private sector port facilities in Turkey with a daily loading capacity of 30,000 tons and offloading capacity of 60,000 tons. And the auxiliary facilities of these units are included.

In addition to the Değirmencik integrated plant, our two-unit power plant with a capacity of 1,236 megawatts in the Bekirli village connected to Biga, and our wind power plant with a licensed installed power of 60 megawatts and our seed bank with a capacity of four hundred thousand tons in Biga are in operation.



## Group Companies



**İÇDAŞ Çelik Enerji Tersane ve Ulaşım San. A.Ş.**  
Steel, Electricity Production and Shipbuilding



**İÇDAŞ Elektrik Enerjisi Üretim ve Yatırım A.Ş.**  
Electricity Production



**İÇDAŞ Elektrik Enerjisi Toptan Satış İthalat ve İhracat A.Ş.**  
Electricity Sale



**ERAS Taşımacılık Taahhüt İnşaat ve Ticaret A.Ş.**  
Land Transport



**BİGAİR Havacılık ve Taşımacılık Sanayi ve Ticaret A.Ş.**  
Airline



**İÇDAŞ Dış Ticaret A.Ş.**  
Agriculture and Animal Husbandry



**İÇDAŞ Sigorta Aracılık Hizmetleri A.Ş.**  
Insurance



**İÇYAPI İnşaat Taahhüt ve Ticaret A.Ş.**  
Construction



**İCE TANKER Deniz Taşımacılık Ltd. Şti.**  
Ship Management



# Products and Services

Steel billets, construction steel, wire rod produced in our steel plants and electrical energy produced in our power plants are up to international standards. Steel products are used in sectors such as construction, automotive, tire, machine manufacturing, while electricity produced in thermal power plants is transferred to legal customers through the state network. We mainly incorporate the ships we produce in our shipyard to İÇDAŞ's own fleet.

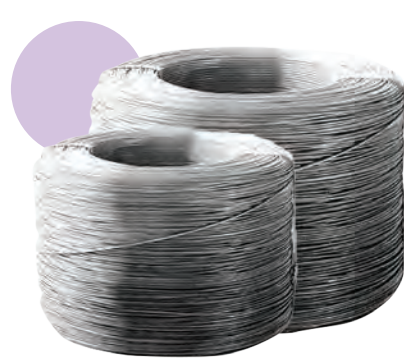
**1 STEEL BILLET**, is the starting point for rolling products such as construction steel, flat bar, section and wire rod. They are square - shaped, long and continuous casting semi-finished products with cross-sections ranging from 100 mm to 200 mm.

**2 CONSTRUCTION STEEL**, is a type of steel used in reinforced concrete construction manufacturing, originally produced as an alternative to flat surface construction steel which it has since replaced, with protrusions (ribs) on the surface.

**3 WIRE ROD**, is a semi-finished metal rod made by hot rolling, usually with a round section, wrapped in coil and used for cold drawing. Welding electrode is used in the production of products such as steel wire mesh, wire, bolt, spring and so on.

**4 THERMAL, HYDRO, WIND AND SOLAR POWER**, Electricity produced in our thermal, hydro, wind and solar power plants are delivered via the lines to customers operating in sectors such as hotels and industrial companies, gas, information technology, steel, finance and investment, construction, food, cement, electronics, energy, logistics, mining, automotive, health, agriculture, textile and transportation as well as shopping malls, restaurants, schools, homes and public institutions.

**5 SHIPBUILDING**, By 2020, we have completed the production of 17 ships in our shipyard, including chemical tankers and dry cargo ships. In 2020, we started working to build two 4,500 DWT and created the production schedule to launch them in 2022. We aim to grow our fleet by launching 7,500 DWT stainless steel chemical tankers in 2021, whose production was continued in 2020. With Aksaz Shipyard (dry pool) being operationalized in 2020, we have speeded up our works of ship maintenance. A total of 5 ship's maintenance and repair works have been realized in 2020, in Aksaz Shipyard, which is the biggest dry pool of our country as to technical specifications. While the smallest one is Turkish Star 3 ship with a capacity of 5,014 DWT and 83.12m long, the biggest one is Berk Münevver ship with a capacity of 63,592 DWT and 199.90m long. Maintenance and repair work service for 300\*60 m lengths will be provided in Aksaz Shipyard.



# İÇDAŞ in Numbers

## Corporate Profile

## Sustainability Profile

### EKONOMIC



**Consolidated Net Sales**  
**15.733 TRY Billion**



**Distribution of Net Sales**  
% 66.28 Steel  
% 30 Energy  
% 3,72 Other



**Export Volume**  
**799 USD Million**  
Export to 54 Countries



One of the 20 Companies Exporting the most in Turkey  
One of the 3 Companies Exporting the most in Steel Industry



**Total Installed Power**  
**1.706,85 MW**  
%72,41 Bekirli Termik (1.236 MW)  
%23,73 Değirmencik Termik (405 MW)  
%3,52 RES (60 MW)  
%0,31 HES (5,30 MW)  
%0,03 GES (0,55 MW)



**Electricity Production**  
**11,54 kWh Billion**  
(3.78% of the total electricity produced in Turkey in 2020)

### SOCIAL



**Group Number of Workers**  
**5.543**



**Rate of Local Employment**  
**% 77**



**Our Social Investments**  
**25,39 TRY Million**

**Our Social Investments**  
% 1,33 Sport  
% 6,63 Education  
% 83,71 Infrastructure  
% 8,34 Cultural

### ENVIRONMENTAL



**Environmental Operating Costs and Investments**  
**239,11 TRY Million**

%84 Değirmencik Facility  
%16 Bekirli Facility



**Raw Steel Production**  
**3,26 Million Tonnes**  
(9.11% of total production in Turkey)

**Daily Recycled Steel Scrap Capacity**  
**15 Thousand Tonnes**

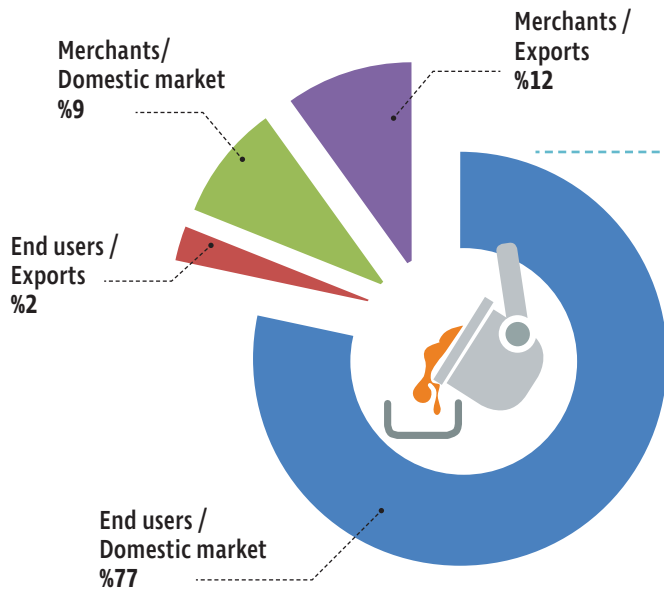
(Rates regarding Turkey are based on 2020 data.)







# Customer Profile



## Steel Customers

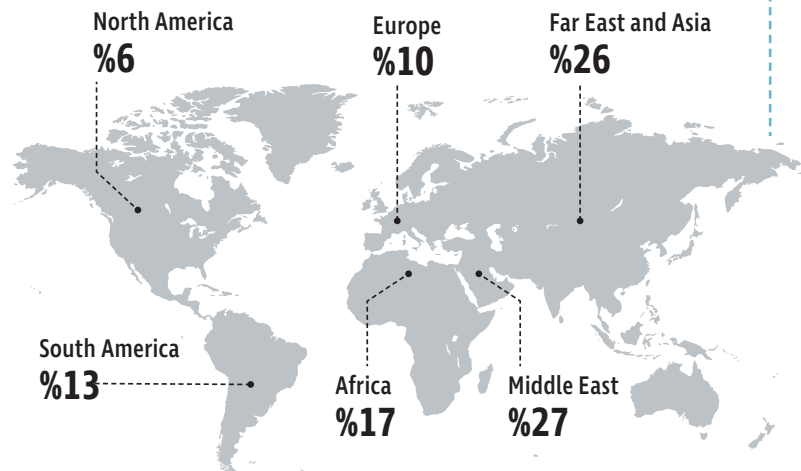
Steel Customers	Number	Rate
End users / Domestic market*	519	77%
End users / Exports*	15	2%
Merchants / Domestic market**	59	9%
Merchants / Exports**	81	12%
<b>Total</b>	<b>674</b>	<b>100%</b>

\*End users: Construction firms, straw manufacturers and wire manufacturers.

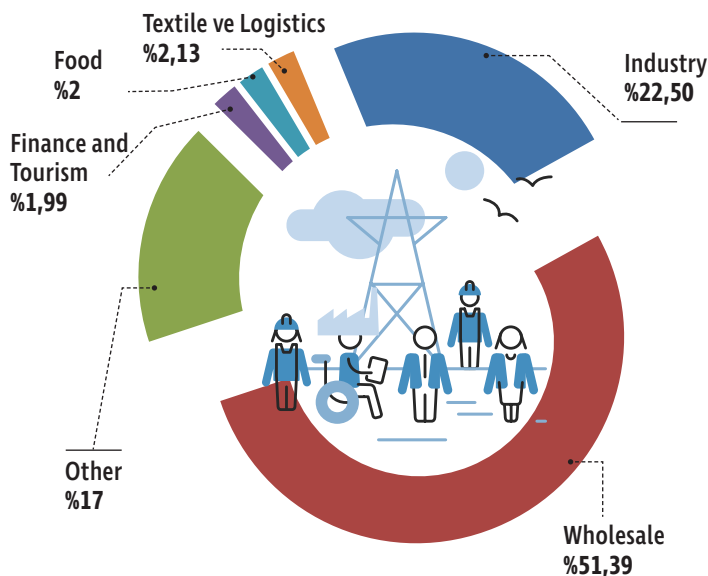
\*\*Merchants: Distributors and intermediary firms.

Steel Export Markets	
Far East and Asia	%26
N. America	%6
S. America	%13
Africa	%17
Europe	%10
Middle East	%27

## Steel Customers



## Electricity Customers (Based on consumption)



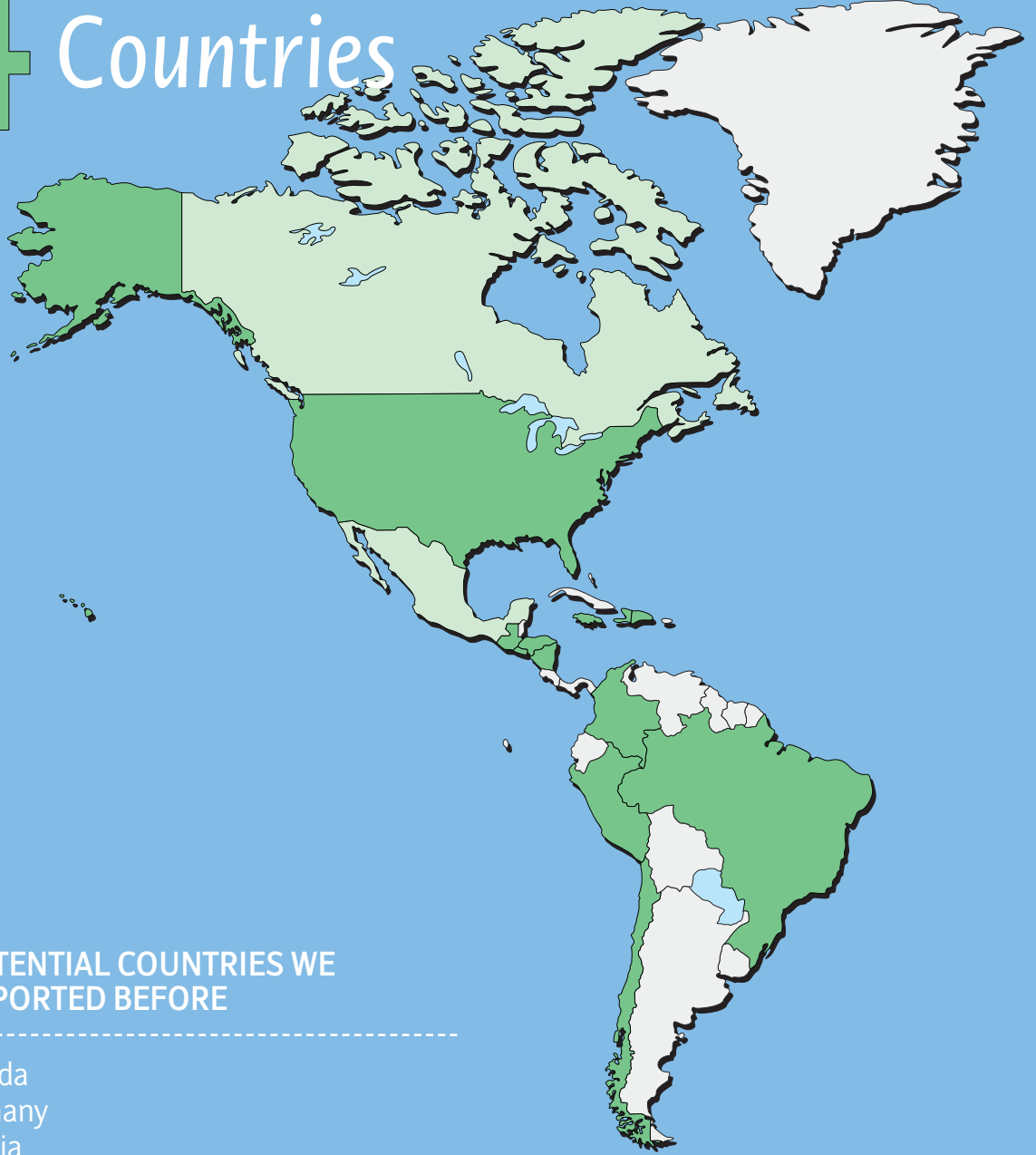
## Electricity Customers (Based on consumption)

Industry	%22,50
Wholesale	%51,39
Other	%17
Finance and Tourism	%1,99
Food	%2
Textile and Logistics	%2,13



# İÇDAŞ Steel

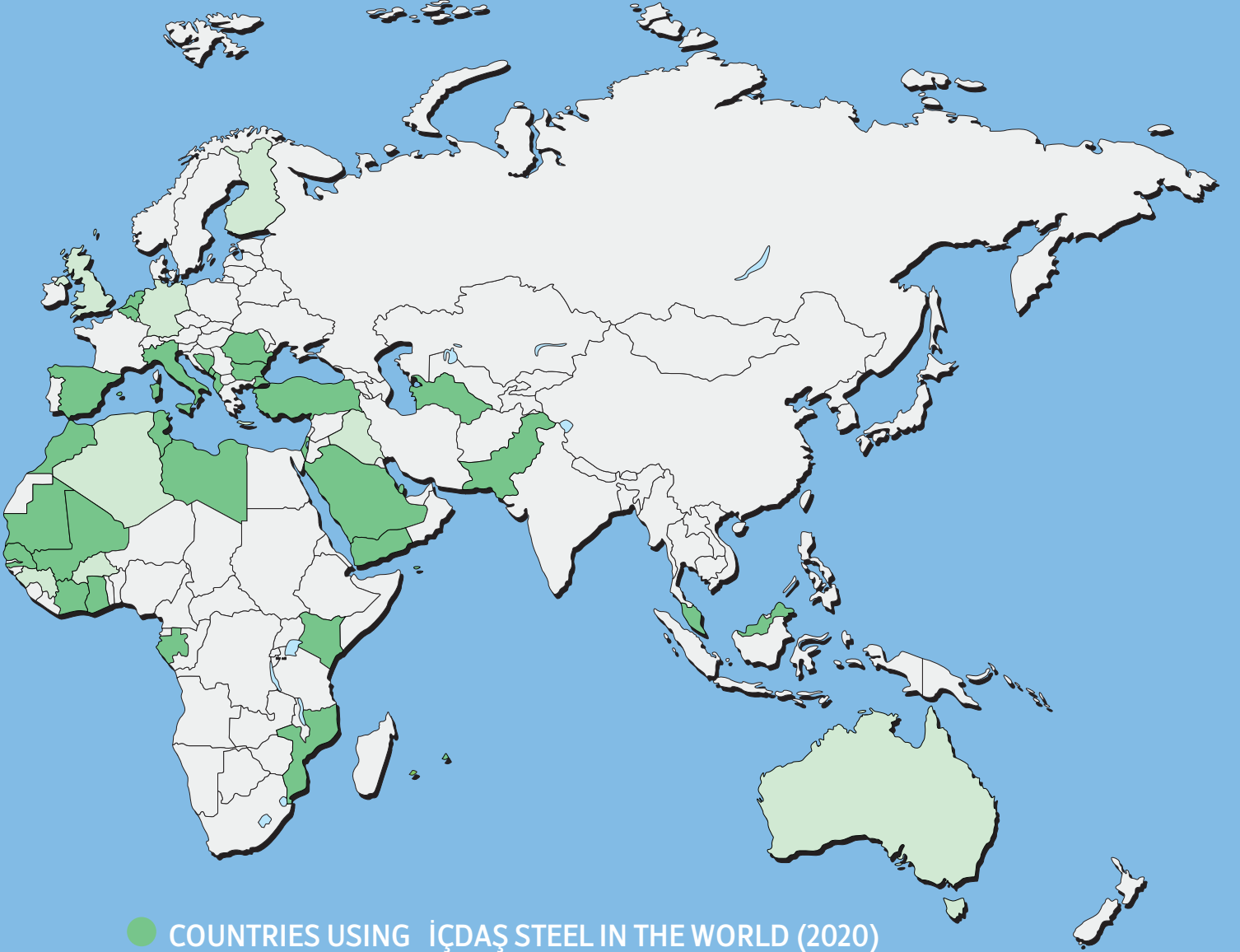
## 54 Countries



● POTENTIAL COUNTRIES WE EXPORTED BEFORE

- Canada
- Germany
- Algeria
- United Kingdom
- Finland
- Mexico
- Malta
- Irak
- Avustralia
- Burkina Faso
- Cabo Verde
- Reunion

\*No export in 2020



● COUNTRIES USING İÇDAŞ STEEL IN THE WORLD (2020)

- Hong Kong
- Israel
- Yemen
- Fas
- USA
- Peru
- Haiti
- Romania
- Saudi Arabia
- Singapore
- Brasil
- Ethiopia
- Bulgaria
- Gana
- Belgium
- Tunis
- Netherland
- Mauritius
- Italy
- Spain
- Chile
- Ivory Coast
- Kosovo
- Pakistan
- Senegal
- Costa Rica
- Turkmenistan
- Albania
- Colombia
- Turkey
- Guatemala
- Gabon
- Mauritania
- Mali
- Honduras
- Mozambique
- Katar
- Jamaica
- Malaysia
- Kenya
- Libya
- Montenegro



# Strategy and Management

We produce at universal quality and standards in all of our fields of activity and fulfill our responsibilities with our service vision. We are aware of our responsibilities to our country and the environment.



“ İÇDAŞ conducts all of its internal business processes in accordance with corporate management principles such as transparency, fairness, accountability, and responsibility.”

## Corporate Management

Members of the Board of Directors are equally responsible for the environmental, social and economic performance of the company. Members of the Board of Directors of İÇDAŞ consists of family members. All of our board members, especially our founders, are leaders in the sector, and important and responsible people in the Turkish business environment. Their approach of self-assessment regarding their own performances are critical to achieving the company's growth and sustainability goals.

In all our affiliated companies, our board members can take different positions and also take part in the executive duties of these companies. There are no independent members in our Board of Directors. There are no committees affiliated to the Board of Directors.

Our board members manage sustainability risks and opportunities on a daily basis as part of their executive duties and evaluate them by communicating continuously. Aware of our place in the top 500 ranking of the Istanbul Chamber of Industry, where Turkey's largest industrial organizations are ranked, they consistently monitor the reports and data shared by the Turkish Steel Producers Association (TÇÜD) with regard to the sector and make instant decisions if necessary.

We implement our Risk management using the SAP HANA system module to ensure internal control by including sustainability risks. Our current and potential risks have been identified by our Board of Directors and our policies determined to manage sustainability-related risks have been included in the book İÇDAŞ Internal Management Policies.

The company's Disciplinary Regulations consist of rules and principles that all our employees must follow. This regulation is issued in writing to our employees before they start the job. With this regulation, it is projected to prevent situations and behaviors that are contrary to job security in terms of employee safety and health, information security and business discipline.

The Disciplinary Committee or the relevant department managers and directorates are responsible for the examination of complaints or cases.

## İÇDAŞ ETHICS

İÇDAŞ is among the leading steel companies in Turkey. The company operates in energy, sea transportation, shipyard, mining and port management as well as steel production. Our company has the principle of carrying out its activities responsibly and ethically. We respect and support the International Human Rights law which aim to support and maintain the human rights, including the ILO Declaration on Fundamental Principles and Rights at Work. Our acceptance of these international principles is consistent with our dedication on strengthening the society we operate, preserving the environment, respect for human rights and developing the working place. As İÇDAŞ, we assure our ethical rules with İÇDAŞ Disciplinary Regulations and İÇDAŞ Ethical Supply Chain Policy. In this scope, we issue it to all our employees not to experience any unethical behaviours. In 2020, we have reached our goal of “not experiencing any unethical behaviours”.

## Sustainability Management

We focus on the issues of environmental management, occupational safety and quality while realizing the goals determined to boost our sustainable impacts on the production branches (steel, energy and ship) and increase our activities in other fields with an innovative management culture and current, scientific, efficient and effective working methods. At the heart of our sustainability strategy is the principle that our employees and the people of the region live in a healthy and clean environment.

Creating value for our stakeholders is at the heart of our understanding of sustainability in all the processes we carry out. The principles with which we have established our outlook on sustainability represent our commitment to managing our sustainability impacts in our company's works and investment, being very clear and understandable by all stakeholders.

## Sustainability Principles

- ✓ Identifying and using technologies that comply with the country's requirements for environmental protection, pollution prevention and improvement, develop projects and ensuring their implementation,
- ✓ By defining a waste management policy related to our business, taking the necessary measures to eliminate pollutants caused by our business in a way that does not harm the environment and constantly improving our environmental performance,
- ✓ Reducing CO2 emissions from products and services, Creating sustainable performance criteria that are constantly growing and developing with management systems and goals,
- ✓ Conducting all kinds of measurements, analyses and controls, including environmental standards and ecological criteria, for environmental protection and pollution prevention,
- ✓ Fully fulfilling the requirements of national laws and regulations and international agreements concerning our sector related to the environment,
- ✓ Ensuring that economic decisions and ecological decisions are considered together in order to improve our position in the sector on a balanced and continuous basis,
- ✓ Taking necessary care and measures in the use of natural resources by adapting to the sustainable development goals,
- ✓ Developing business policies by taking into account the environmental demands of non-governmental organizations and all implementing institutions and organizations, as well as the people living around us, Developing environmental awareness by implementing a continuous training program for our employees in order to gain effectiveness in environmental practices,
- ✓ Using methods to minimize the effects of transportation activities,
- ✓ Ensuring efficient use of energy and continuously improvement thereof,
- ✓ Ensuring efficient use of water and keeping water consumption per unit product at the lowest level.



## GLOBAL OBJECTIVES FOR SUSTAINABLE DEVELOPMENT



## Communication with Our Stakeholders

We consider individuals and institutions that are affected by our activities today and in the future and have financial implications for their behavior and decisions as our stakeholders. We evaluate the different views of stakeholder groups according to their interests.

In order to communicate with our key stakeholders about our activities, we try to take their ideas or inform them on various platforms.

İÇDAŞ Sustainability Survey which we opened up for the participation of our employees in all of our facilities to assess our sustainability works.

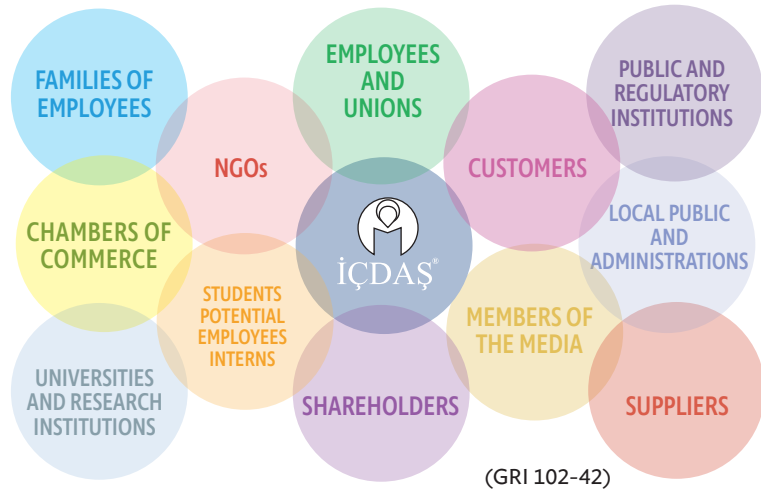
We reviewed with our Sustainability Working Group our key stakeholders and strategic issues that we identified as a result of the sustainability identification survey that we had conducted in recent years with the participation of our senior managers and the consequent strategy workshop.

### Key Stakeholders

We evaluate the thoughts that are directly related to our business within the framework of sustainability by updating our communication platforms and by creating new platforms in the framework of the ideas and demands of our stakeholders. We believe that the returns we receive when setting our sustainability goals will help shape our goals.

## Our Stakeholders

- ⊗ Employees and Unions
- ⊗ Stakeholders
- ⊗ Customers
- ⊗ Public and Regulatory Institutions
- ⊗ Local Public and Administrations
- ⊗ Members of the Media
- ⊗ Suppliers
- ⊗ Chambers of Profession and Industry
- ⊗ Non-Governmental Organizations
- ⊗ Families of the Employees
- ⊗ Universities and Research Institutions
- ⊗ Students / Potential Employees / Interns



## Stakeholder's View

### **Bülent ERDOĞAN / Biga Mayor**

I follow up the investments of İÇDAŞ in Biga since 2000's, in consequence of Biga Mayorship I have been carrying out for 2 years and as well as working as a tradesman in the district for a long time and being born and raised in Biga. First of all, i would like to thank İÇDAŞ, for its social and economic contribution to our region and for making Biga's name in both in Turkey and in the world.

It is said that the best investment is the investment on human and the future. And İÇDAŞ invested on Biga's future by building a Labour School, Kindergarten, Science High School and completely renewing our sports hall and keeps doing so. Thus, we need the contribution of İÇDAŞ for Uyanık Library, open 24/7, which we planned to bring Biga a building to enable our children and the youth perform social activities and enrich their vision and read books.

We observe that İÇDAŞ, the door opening Biga to the outside world from steel production to energy production, shipyard to logistics activities, gives importance to the environmentalist works and environment by complying with the required rules, getting required permissions. This situation is as valuable as the investment for our future generations. The awards about employment and environment received from the related directorships of our country and independent organizations, the Seed Bank, with a capacity of 400 thousand tonnes, which closely concerns our next generation and which we attended to its opening ,and transparently, sharing the real time air quality measurements with the agricultural and animal husbandry authorities, demonstrates us the industrial development of İÇDAŞ's positive impact to Biga.

The leading sector in the economy of all of the developed countries has always been the steel and energy industry. We listened to Kızilelma Project in the construction of the dry pool that we have inspected at İÇDAŞ facilities. This place will provide huge improvements for our national defence industry as it will be the place where the first airplace carrier of our country, and also the place where the biggest dry cargo ships of The Marmara, the Black Sea and the Mediterranean will be constructed.

The fact that İÇDAŞ, the biggest private sector steel and energy producer has been servicing in Biga is primarily a value and gain. We appreciate their sponsorship support in employment and cultural history while we evaluate their support to cultural structure with their development of our region and social responsibility projects as a support to sustainable economic and social activities of our township. İÇDAŞ sheds light on the history by bringing Parion Ancient City in our Kemer village in the tourism and thus in the economic and cultural heritage while drawing on many ancient cities in Çanakkale region to come to light. We, as Biga Municipality, supported the creation of tourism awareness by gathering our September 2019 assembly in Parion. This place is visited by many foreign tourists. And this means Biga wins.

One of the subjects we give the most importance is to bring the historical and cultural works in Biga. We know that İÇDAŞ is sensitive about this subject and adopts our historical values and names. We have completed the documentary of Bigalı Mehmet Çavuş from Bahçeli village, who has a significant place in history with his devotion in Seddülbahir during Çanakkale Wars. Our next objective is to restore the Mahmet Çavuş's house in Bahçeli and bring the memorial house in the future. We expect the support of İÇDAŞ which has examples of support in this area.

Both Service and development are links of a chain. We realize by experiencing that İÇDAŞ have provided significant contributions to develop Çanakkale and our country with the investments in Biga and thus, as the link of the chain, making Biga a known place, a center of attraction. As a stakeholder of İÇDAŞ, which has a growing number of investments, I thank you for the things you have done and will do for our Biga, we assume it as star of Turkey, and wish you success. We will build Biga's future together with our motto "Biga is all of us".





“ İÇDAŞ The information about activities given to the locals in the area / regions and communication platforms are sufficient.”

## Sustainability **Communication Platforms**

Stakeholders	Communication Platform	Communication
Employees and Unions	İÇÖS	Continuous
	Intranet	Continuous
	OHS Meeting	Monthly
	Notice	Continuous
Stakeholders	Boards Meeting	Monthly
	Executive Board	Weekly
Customers	Call Center and Customer Portal	Continuous
	Seminar-congress-fairs	A few times a year
	Mutual visits	Continuous
	Internet	Continuous
	Product information brochure	A few times a year
	Factory trip and information meeting	A year once upon
<b>Public and Regulatory Institutions</b>	Face-to-face meetings	Continuous
Local Community and Government	Face-to-face meetings	Several times a week
Members of the Media	Face-to-face meetings	Weekly
	Phone, e-mail, social networks	Several times a week
Suppliers	Ethical Procurement Policy information	Once a year
Chambers of Profession and Industry	Memberships	Monthly
	Presentations on topics such as environment, OHS	A few times a year
<b>Non-Governmental Organizations</b>	Memberships	Monthly
Families of the Employees	Cultural excursions	A few times a year
	Picnics and social organizations	A few times a year
Universities and Research Institutions	Factory introduction trips and presentations	Once in 2 months
	Providing professional courses	Continuous
Students / Potential Employees / Interns	Factory introduction trips and presentations	1-2 times a week
	Presentations on topics such as environment, OHS	1-2 times a week

(GRI 102-43)












# Strategic Issues in the Eyes of Our Stakeholders

Konular	Employees and Unions	Stakeholders	Customers	Suppliers	Media	Local Public and Administrations	Public
Economical Performance	4.88	5.00	4.50	4.46	4.57	5.00	4.50
Employment	4.50	5.00	4.50	4.58	4.71	5.00	4.50
Occupational Health and Safety	4.75	5.00	4.50	4.88	4.14	5.00	5.00
Traning and Education	4.50	5.00	5.00	4.84	5.00	5.00	5.00
Local Communities	3.75	5.00	4.50	4.42	4.29	4.50	5.00
Emissions	4.63	5.00	5.00	4.46	3.86	5.00	5.00
Global Climate Chance	4.50	5.00	5.00	4.61	3.86	4.50	4.50
Biodiversity	4.38	5.00	4.00	4.37	3.86	4.50	4.50
Energy	4.75	5.00	5.00	4.57	3.71	5.00	4.00
Water	4.75	5.00	4.50	4.76	4.86	5.00	4.50
Liquid and Solid Wastes	4.00	5.00	4.00	4.60	3.86	5.00	4.00
Epidemic Diseases	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Primary Material Efficiency and material consumption	4.00	5.00	4.50	5.00	4.00	4.50	4.00

\*Assessments is done on 5 points.

## Our Collaborations for Sustainable Development

Related SDG	Project	Collaborating NGO or Public Institution	Collaboraton Start	Date Collaboration
	Animal husbandry, Beekeeping and Ovine Breeding	Biga District Directorate of Food, Agriculture and Livestock Biga Red Meat Association Çanakkale Beekeepers	2007	Continues
	İÇDAŞ Agricultural Practices	Association Food, Agriculture and Livestock	2007	Continues
   	İÇDAŞ Sports Club	Turkish Basketball Federation Turkish Chess Federation Turkish Archery Federation Turkish Sailing Federation Turkish Swimming Federation Çanakkale Youth and Sports Provincial Directorate Çanakkale Basketball Provincial Representative Office Çanakkale Chess Provincial Representative Office Çanakkale Sailing Provincial Representative Office Çanakkale Swimming Provincial Representative Office Çanakkale Governorate Biga District Governorate Çanakkale Municipality Karabiga Municipality	2010	Continues
 	Radiation Safety	Nuclear Regulatory Authority and Turkish Atomic Energy and Prospection Agency (TENMAK)	Continues	Continues
	Trainings from İÇDAŞ Employees	Biga Vocational High School	2013	Continues

Related SDG	Project	Collaborating NGO or Public Institution	Collaboration Start	Date Collaboration
	Renewable Energy Generation with SPP	Ministry of Energy and Natural Resources General Directorate of Renewable Energy	2014	Continues
 	Electricity Generation from Cooling Water Discharge via HPP	The Department of Energy Electricity Production	2011	Continues
	Investigation of the use of steel slag as “Coastal Port Fill Aggregate, Railway Ballast Material and Mineral Fertilizer in Agriculture” and creation of a legislative proposal	Turkish Steel Producers Association (TÇÜD) and Istanbul Technical University (İTÜ)	2018	Continues
	Main Sponsorship of the Excavations in the Parion	Ministry of Culture and Tourism	2008	Continues
	Main Sponsorship of Apollon Smintheion	Ministry of Culture and Tourism	2011	Continues
	Main Sponsorship of the Troia Excavations	Ministry of Culture and Tourism	2015	Continues
	Main Sponsorship of the Assos Excavations	Ministry of Culture and Tourism	2016	2021
	Main Sponsorship of the Alexandria Troas	Ministry Of Culture and Tourism	2017	2028
	Maydos Kilisetep Mound	Ministry of Culture and Tourism	2018	Continues
	Gürecaaltı Rescue Site Excavations	Ministry of Culture and Tourism	2019	Continues
 	Air Quality Monitoring with the Continuous Emission Measurement System (SEÖS)	Ministry of Environment and Urban Planning	2015	Continues
 	Industrial Facilities Domain Air Quality	Ministry of Environment and Urban Planning	2010	Continues
 	Monitoring of Cooling Water Discharge with Continuous Wastewater Monitoring System (SAIS)	Ministry of Environment and Urban Planning	2012	Continues
 	Biga Peninsula Environmental Monitoring	TUBİTAK Marmara Research Center	2010	2021
 	Biodiversity Monitoring Around the Facility	İÇDAŞ	2013	Continues
	Carbon Verification (Gold Standard)	Rina, Eco-Act	2020	Continues

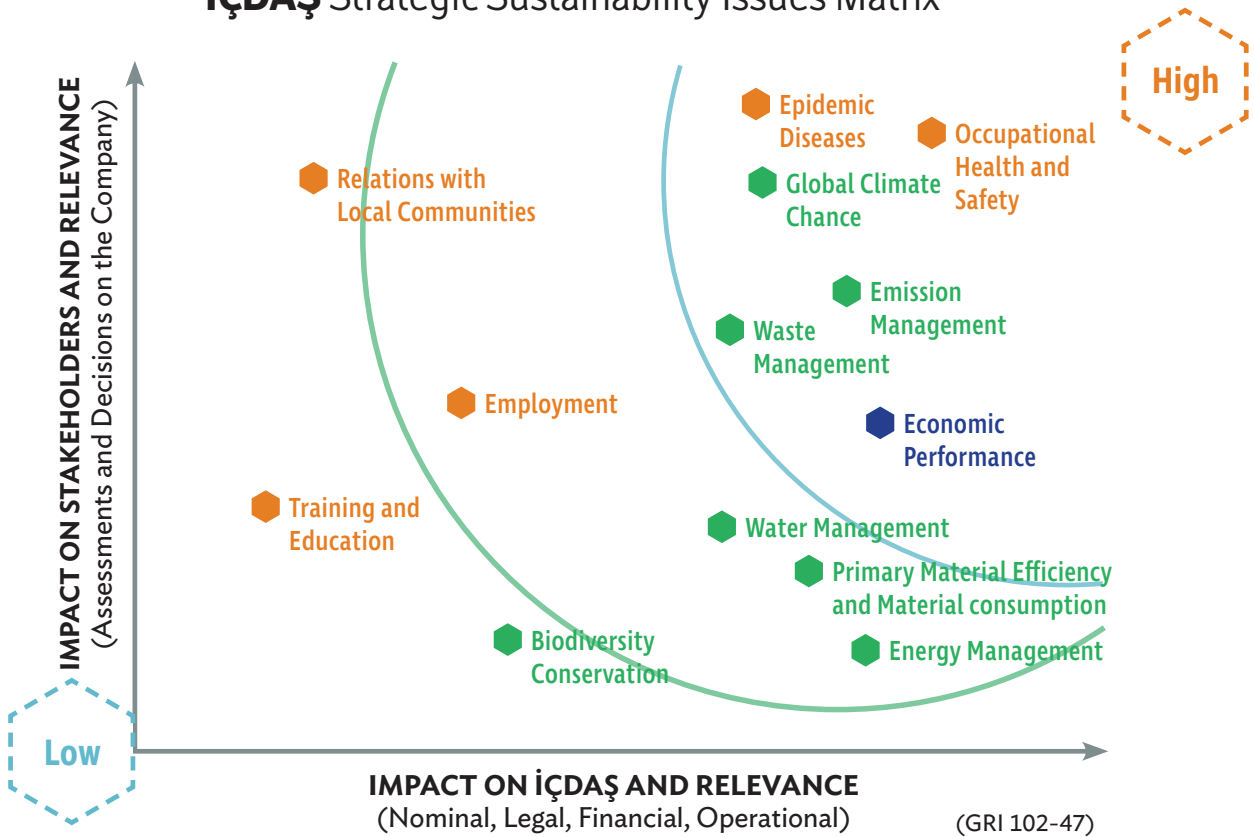
# Our **Strategic Sustainability** Issues

The sustainability strategy survey, which we conduct every year with the participation of all our senior managers, primarily our Board of Directors, the strategy workshop and the İÇDAŞ Sustainability assessment survey, conducted with the participation of our employees, are the basis of the process for determining our impacts so as to look at the issues from our employees' point of view and make better evaluations.

In our strategy workshop, which we held with the participation of our directors, we evaluated our priorities after examining the issues of strategic importance for our company separately in economic, environmental and social terms. We created the İÇDAŞ Strategic Matrix. Every year, our Sustainability Working Group evaluates these issues.

In our Sustainability Matrix, in the upper right section of the table, issues of higher importance to both our stakeholders and our company that directly and significantly affect our company's reputation, legal, financial and operational performance were included. These issues constitute the main headings of the relevant sections of the report and we convey the relevant performance of our company in detail with the data in the report.

## İÇDAŞ Strategic Sustainability Issues Matrix



## Priorities of Our Employees

1 Occupational Health and Safety	6 Water	11 Emissions
2 Employment	7 Liquid and Solid Wastes	12 Epidemic Diseases
3 Economic Performance	8 Local Communities	13 Primary Material Efficiency and Material consumption
4 Energy	9 Biodiversity	
5 Training and Education	10 Global Climate Chance	

# Boundaries of Strategic Issues

Priority Issues	Limit of Subject		Reporting Restrictions	
	Intracompany	Extracompany	Intracompany	Extracompany
Economic Performance	Entirety of İÇDAŞ	N/A	None	N/A
Employment	Entirety of İÇDAŞ	N/A	None	N/A
Occupational Health and Safety	İÇDAŞ Değirmencik and Bekirli	Number of subcontractor accidents	None	We conduct checks in accordance with legal requirements.
Training and Education	Entirety of İÇDAŞ	N/A	None	N/A
Local Communities	İÇDAŞ Değirmencik and Bekirli	N/A	None	N/A
Emissions	İÇDAŞ Değirmencik and Bekirli	Contractor	None	Emissions controls are being carried out on subcontracted vehicles entering the facility.
Global Climate Change	Entirety of İÇDAŞ	The Whole Planet	None	A greenhouse gas report is being prepared in accordance with legal requirements.
Biodiversity	İÇDAŞ Değirmencik and Bekirli	Nearby lands adjacent to İÇDAŞ borders	None	N/A
Energy	İÇDAŞ Değirmencik and Bekirli	N/A	None	N/A
Water	İÇDAŞ Değirmencik and Bekirli	N/A	None	N/A
Liquid and Solid Wastes	İÇDAŞ Değirmencik and Bekirli	Contractor	None	All the rules applied to waste water and waste management apply in all the activities of subcontractors at İÇDAŞ fields.

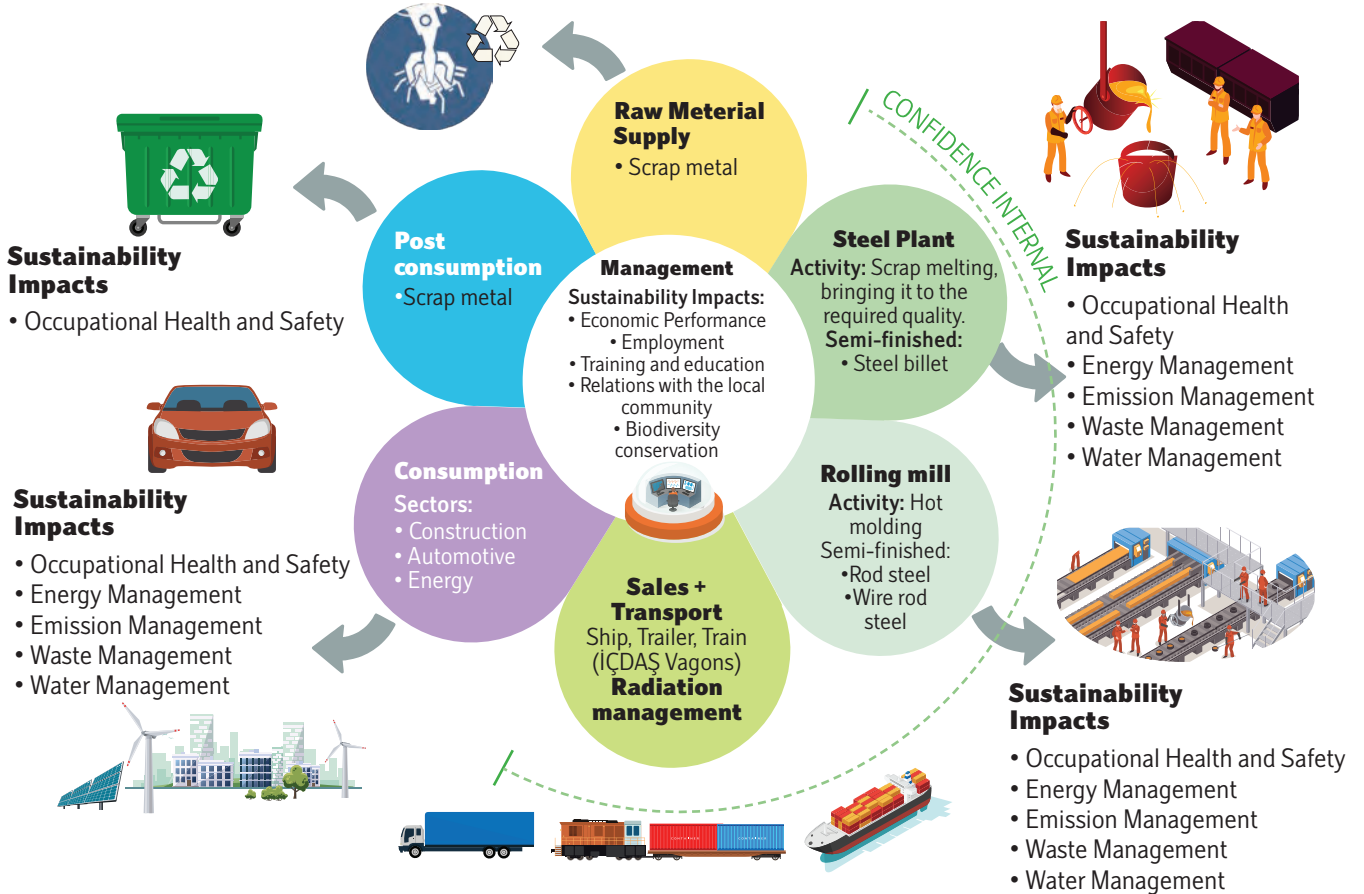
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# Our Sustainability Impacts in the Value Chain

We examined our sustainability impacts in our steel and energy production value chain together with our Sustainability Working Group at our 2019 strategy review meeting. We have identified the effects of sustainability in steel and energy production processes, which are our priority production activities, and we will convey them to our valued stakeholders with the following diagram.

## Sustainability Impacts in the İÇDAŞ Value Chain (Steel Production)



## Sustainability Impacts in the İÇDAŞ Value Chain (Energy Production)

### Sustainability Impacts

- Energy Management
- Emission Management
- Waste Management
- Occupational Health and Safety

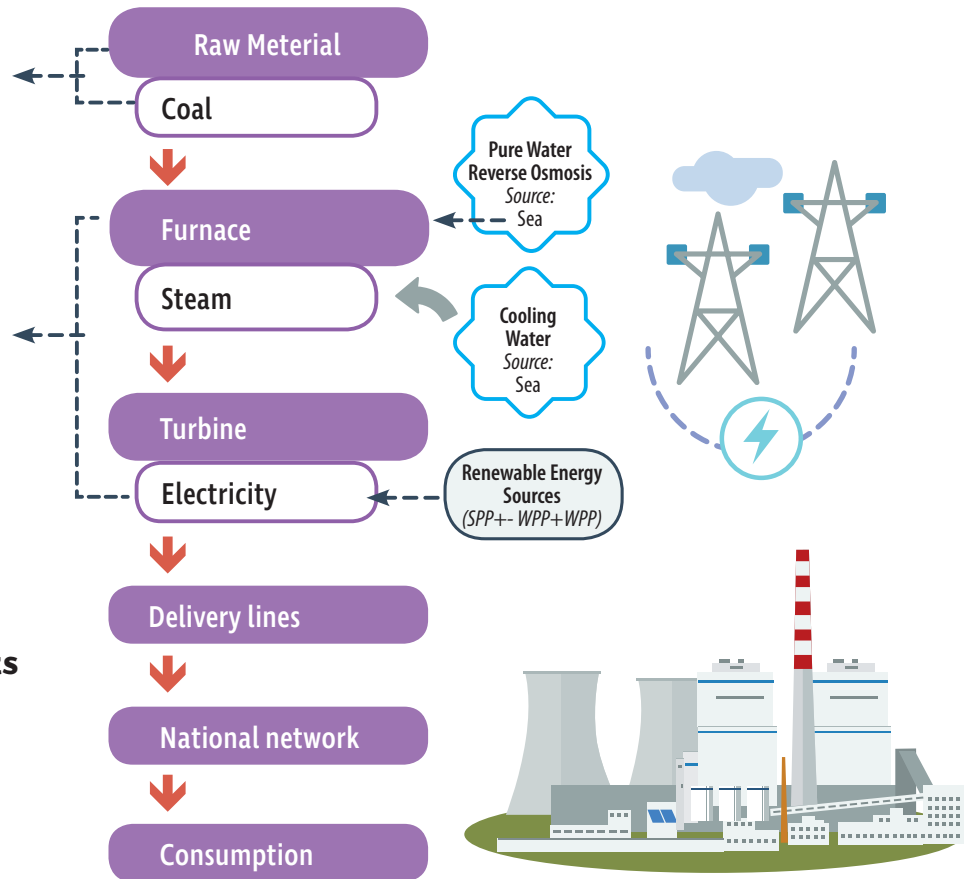
### Sustainability Impacts

- Energy Management
- Emission Management
- Waste Management
- Occupational Health and Safety
- Water Management

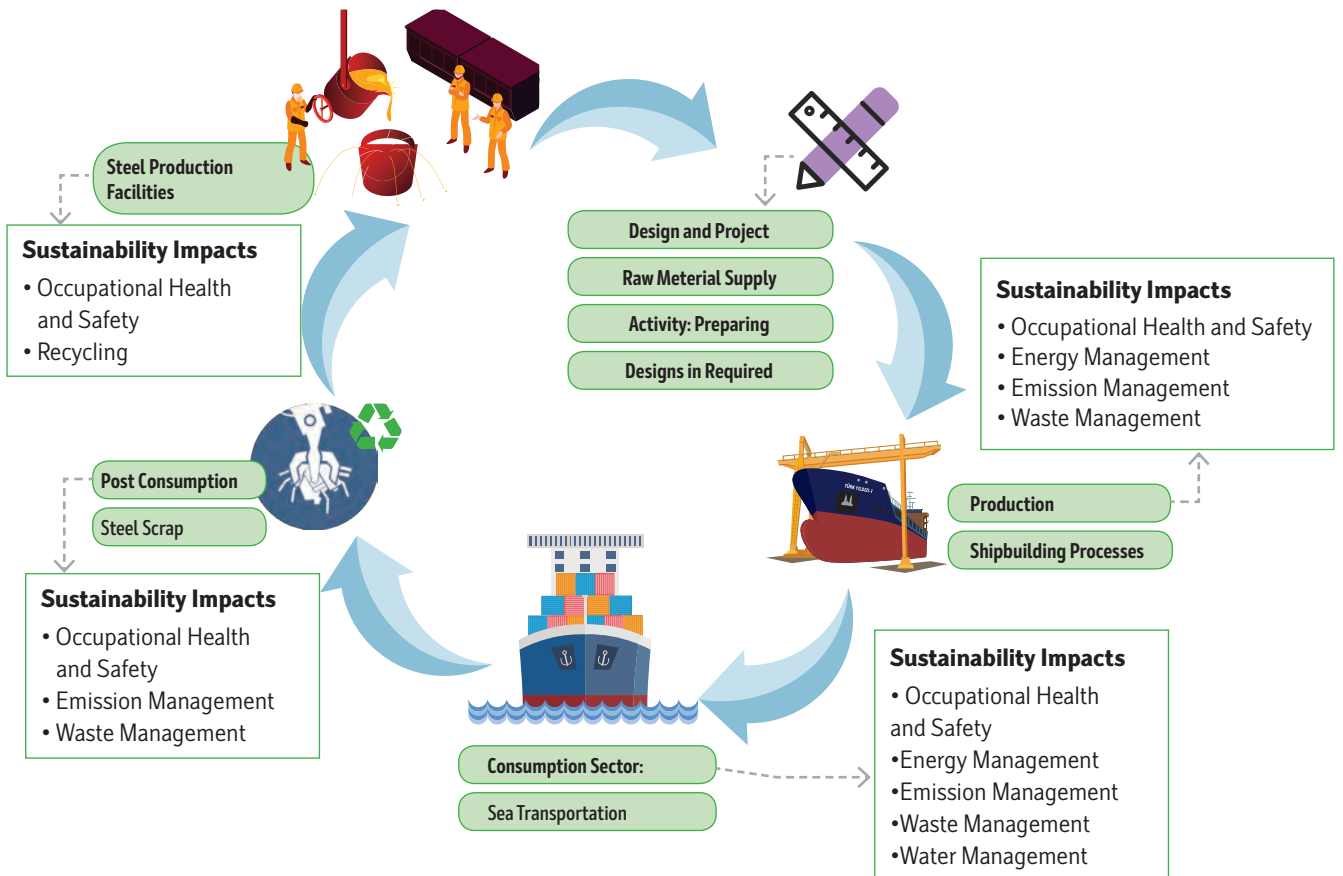
### MANAGEMENT

### Sustainability Impacts

- Economical Performance
- Employment
- Training
- Relations with the local community
- Biodiversity conservation



## Sustainability Impacts in the İÇDAŞ Value Chain (Shipbuilding)



## Our Strategic Sustainability Goals

Our Strategic Sustainability Issues	Objectives	Completion Goal	Completed / New Targets
<b>Economical Performance</b>			
<b>National and Local Economic Contributions</b>	Analysis and use of domestic ores in steel production	2023	Our work on the use of domestic ores continues.
	Building two 4,500 DWT Stainless tanker	2020	2022
	7,500 DWT Stainless Steel Chemical Tanker	2019	2021
	Increase our employment numbers with our new investments	Continuous	In 2020, we employed 572 new staff.
	Making new investments in the shipyard sector	2020	In 2020, we operationalized it.
	To invest in cement and clinker plants	2023	Work continued in 2020.
<b>Social Performance</b>			
<b>Occupational Health and Safety</b>	Reducing accident frequency and weight ratio	Continuous	We continue our educational work consistently.
	Providing OHS training to 100% of our employees	Continuous	We gave OHS training to all staff who started working in 2020.
	Providing OHS training to 100% of our subcontractors	Continuous	We gave OHS training to all subcontractors who started working in 2020.
	Increase total OHS training time	Continuous	We are constantly searching for training that can provide contributions to our employees.
<b>Employment</b>	Increasing the satisfaction of our employees	Continuous	We monitor via a satisfaction survey. Our investments to improve physical conditions are ongoing.
	Maintain the İÇÖS Recommendation System effectively	Continuous	We have collected a total of 854 proposals by the end of 2020. We have implemented 312 of these recommendations.
<b>Relations with the Local Community</b>	Continuing our social investments mainly in education, sports and culture	Continuous	We continue our activities and cultural investments at İÇDAŞ Sports Club.
	We aim to achieve a respectable corporate perception through direct observation, having been accepting visitors at our facilities since 2011.	Continuous	Facility introduction trips have been suspended due to Covid-19 experienced worldwide in 2020. We will continue Facility introduction trips after the epidemic ended.
	To continue to provide trainings at Biga Vocational High School	Continuous	In 2020, no students were enrolled in the Department of Metallurgy at the Vocational High School. Training was decommissioned in 2020. If students are admitted to the department, we will continue to provide training and students with a team consisting of our Principal, Deputy Director, Chief, Assistant Chief and engineers.
	Every year we introduce 200 young people to swimming, 300 young people to sailing, 300 young people to surfing	Continuous	We have achieved participation above the targeted numbers.
	Increasing the number of students within the Sports Club	Continuous	In 2020, we reached a total of 350 students, 198 of whom were licensed.
	Continue the main sponsorship for Parion excavations	2026	Excavations continue.
	Continue the main sponsorship for Apollon Smintheion excavations	2020	Excavations continue.

<b>Relations with the Local Community</b>	Continue the sponsorship for Troia excavations	2020	Excavations continue.
	Sponsorship of the Alexandria Troas	2028	Excavations continue.
	Start sponsoring Assos excavations	2021	Excavations continue.
	Gürecaaltı Rescue Site Excavations	2023	Excavations continue.
	Sponsorship was commenced for the Maydos Kilisetepe mound excavation site	2028	Excavations continue.
<b>Environmental Performance</b>			
<b>Emission Management</b>	Reducing road transport, giving weight to rail and sea	Continuous	In 2020, we carried out our logistics activities mainly by sea and railway. We realized our transport impact by performing 3% reduction, the target of which was 0.5% in 2020.
	Liquid steel production primary material utilization and improving material efficiency	Continuous	In 2020, our material efficiency is designated as 82%. In 2020, our material efficiency target was realized as 81.70%.
	To reach the total number of planted tree saplings to 400 thousand	2023	The data is monitored online by the Ministry.
	Online monitoring and broadcasting of air quality in our facility domain	Continuous	The data is monitored online by the Ministry.
	Keeping chimney emissions below legal limits	Continuous	By keeping our data below legal limits in 2019, we achieved a reduction in emissions.
<b>Waste Management</b>	Reducing the amount of waste going to regular storage to 5%	2020	We carry out R & D studies for the use of thermal plant ashes in fields such as gas concrete, cement, lime, etc. Our work continues within the scope of zero waste.
	To contribute to the work carried out in partnership with ITU, Ministry of Environment and urbanization, TÇÜD and KGM (General Directorate of highways) for the development of the use of artificial aggregate in road construction	Continuous	In 2017, the project was completed. In 2018, Artificial aggregates were included in the technical specification of highways. Since 2018, Artificial aggregates produced from slag have started to be used on highways as a byproduct.
	Investigation of the use of steel slag as "Coastal Port Fill Aggregate, Railway Ballast Material and Mineral Fertilizer in Agriculture" and creation of a legislative proposal Turkish Steel Producers Association (TÇÜD) and Istanbul Technical University (ITU)	2020	Project work was started at the end of 2018. The works is going on in 2020.
	To efficiently use the scrap and alliage materials to produce steel in our steel facilities.	Continuous	In 2020, our facilities worked by 92.5% efficiency.
	Reducing the domestic waste sent to the Regular Storage Facilities	Continuous	The amount of waste created in our facilities in 2020 and the recycling ratios is given in Waste Data section of our report.
	Increasing the amount of waste sent to recycling	Continuous	The amount of waste generated at our facilities in 2020 and their recovery rates are given in the Waste Data section of our Report.
	Reducing the amount of splatters, flue dust and scales created as a result of steel production, which is our main activity area.	Continuous	In 2020, there has been 0.02% reduction in the rate of waste to total steel production. The target has not been reached.
	Make materials available to daily life from wood waste	Continuous	Using wood waste, we made over 100 pieces of goods for use in our facilities. These include tables, stools, boxes and stairs.
	Protecting restricted water resources by continuing to extract fresh water from the sea	Continuous	In 2020, we continued to meet all the water needs of our Değirmencik and Bekirli facilities from the sea.



Water Management	Reduce water consumption per ton of steel produced.	Continuous	In 2020, our water consumption have been 0.63 m <sup>3</sup> per ton of steel, while it was 0.53% m <sup>3</sup> in 2019.
	Keeping the amount of carbon in ash of 3 units at Değirmencik Thermal Power Plant below 10 %	Continuous	The 2020 year-end Average has been 6.70%. Our 2020 target have been designated as 10%. Target achieved.
Energy Management	Reduce energy consumption per ton of steel produced.	Continuous	In 2020, there have been 0.1% increase on our target of 0.50% reduction. We could not reach our goal.
	To continue TÜBİTAK Mam Environmental Monitoring Project	2021	In 2016, the first 6-year period ended and the final report was prepared. In 2016, a new 5-year contract with TÜBİTAK MAM was extended until 2021
Biodiversity Conservation	Ensuring annual reporting of biodiversity in the region where our Biga facilities are located	Continuous	The 2020 report has been prepared.
	Taking live inventory biodiversity inventory for 2020, observing its yearly distribution.	Continuous	A live inventory was created for and around the facility in 2020, but no new species were added.
	Performing Ornithological and wildlife monitoring in WPP sites	Continuous	March 1 -November 1 in 2020 was monitored and reported by our biologist.
	Installing temperature monitoring system for cooling water discharge channels and switching to temperature monitoring process	Continuous	Temperatures were actively monitored. Our wastewater measurements with 4 sais are shared live with the CSHB.



## Our Economic Performance

We know that fulfilling our environmental and social responsibilities along with our financial performance is our priority to ensure sustainable growth. As a result of our corporate culture, İÇDAŞ is fulfilling our social and environmental commitments as well as to grow economically.





# Awards and Highlights



**İÇDAŞ Çelik Enerji Tersane ve Ulaşım Sanayi A.Ş.**

Istanbul Chamber of Industry

**Turkey's 500 Largest Industrial Enterprises  
12th Rank**



**İÇDAŞ Elektrik Enerjisi Üretim ve Yatırım A.Ş.**

Istanbul Chamber of Industry

**Turkey's 500 Largest Industrial Enterprises  
81st Rank**



ÇİB Steel Exporters Association 2020 Awards:

**Most Export Categories In All Products 2nd award,  
Construction Steel and Wire Rod Export category 1st award  
Semi-finished product export category 1st award**



2020  
"LEADERS OF THE STEEL EXPORTERS"  
CONSTRUCTION STEEL AND WIRE ROD  
EXPORT FIRST AWARD STEEL EXPORTERS  
ASSOCIATION



With 176 wagons  
**Turkey's 6th private sector enterprise with  
largest fleet**



"MY TURKEY CLEAN" CLEANEST  
INDUSTRIAL FACILITY  
WINNER AWARD 2013  
Republic of Turkey Ministry of  
Environment and Urbanazition



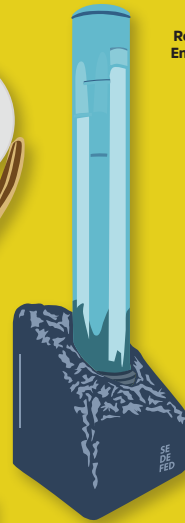
ŞAHABETTİN BİLGİSÜ  
ENVIRONMENT AWARD  
2013  
KOCAELİ CHAMBER OF  
INDUSTRY



İÇDAŞ  
Çanakkale Valtığı  
Çevre Ödülü



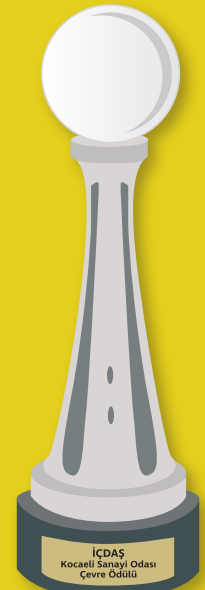
Large Scale Company  
Sustainable  
Environmental  
Application Award



SEDEFED  
Competition Award



AWARD WINNER  
2010  
İSTANBUL CHAMBER  
OF INDUSTRY



İÇDAŞ  
Kocaeli Sanayi Odası  
Çevre Ödülü



Düşük Karbon Kahtaraması



# Sustainable Growth and Our Contributions to the Economy



“İÇDAŞ creates significant economic value for shareholders, suppliers, local public, public institutions).”

The economic competition is based on the continuity of production, low cost of products, the use of environmentally friendly and clean technologies. In order to ensure the continuity of our financial sustainability, we aim to grow and industrialize with internal quality products, to maintain our position in the market, to compete, to maintain ecological balance and to make investments in accordance with universal competition.

From our shareholders to our employees, from our suppliers to our local neighbors, our financial sustainability is very important for all our stakeholders. Thanks to our strong financial structure, we form the basis of our environmental and social investments. With our investments, we aim at projects that offer employment opportunities, contribute to production, add value to our ecological environment, culture and human life.

With a turnover of approximately TRY 15.73 billion, we, as İÇDAŞ, are a leading steel, energy and shipbuilder, employer, contractor, investor and provider of innovative technology solutions with a wide range of environmentally friendly technologies. By taking the top place in the export rankings in the sector every year, we provide significant amounts of foreign exchange input to our country, With about 5 thousand direct and indirect jobs that we, as İÇDAŞ, have created, we create an economic family of about 10 thousand people in total.

## Steel Production



We are one of the largest private sector investors in steel in our country by capacity. While Turkey is ranked 7th in the world in steel production, it is ranked 1st place in Europe. We realize approximately 9.11% of Turkey's steel production at İÇDAŞ facilities. We are the 3rd biggest exporter of steel in Turkey.



## Energy Production

We produced 3.78% of the energy produced in Turkey in 2020, with 8.54 billion kWh at our Bekirli plant, and 2.80 billion kWh at our Değirmencik Integrated Plant.

## Rail Transport



We also retained our place in rail transport in 2020. We are the private sector company with the sixth largest railway fleet in Turkey. Our annual carrying capacity is 214 thousand tons and we carry steel scrap collected from many points in Anatolia by rail. As İÇDAŞ, we aim to reduce our costs by shifting the transportation of products and raw materials to the railway and to protect the environment with less emissions than the highway. In order to use the railway network effectively, we have established steel dispatch centers in two points of Turkey (Ankara, Bandırma).

During the overhaul of our railcars, heavy maintenance and complete painting operations such as wheel set, draw Assembly, brake systems are carried out in accordance with international

## Shipyards Activities and Sea Transportation

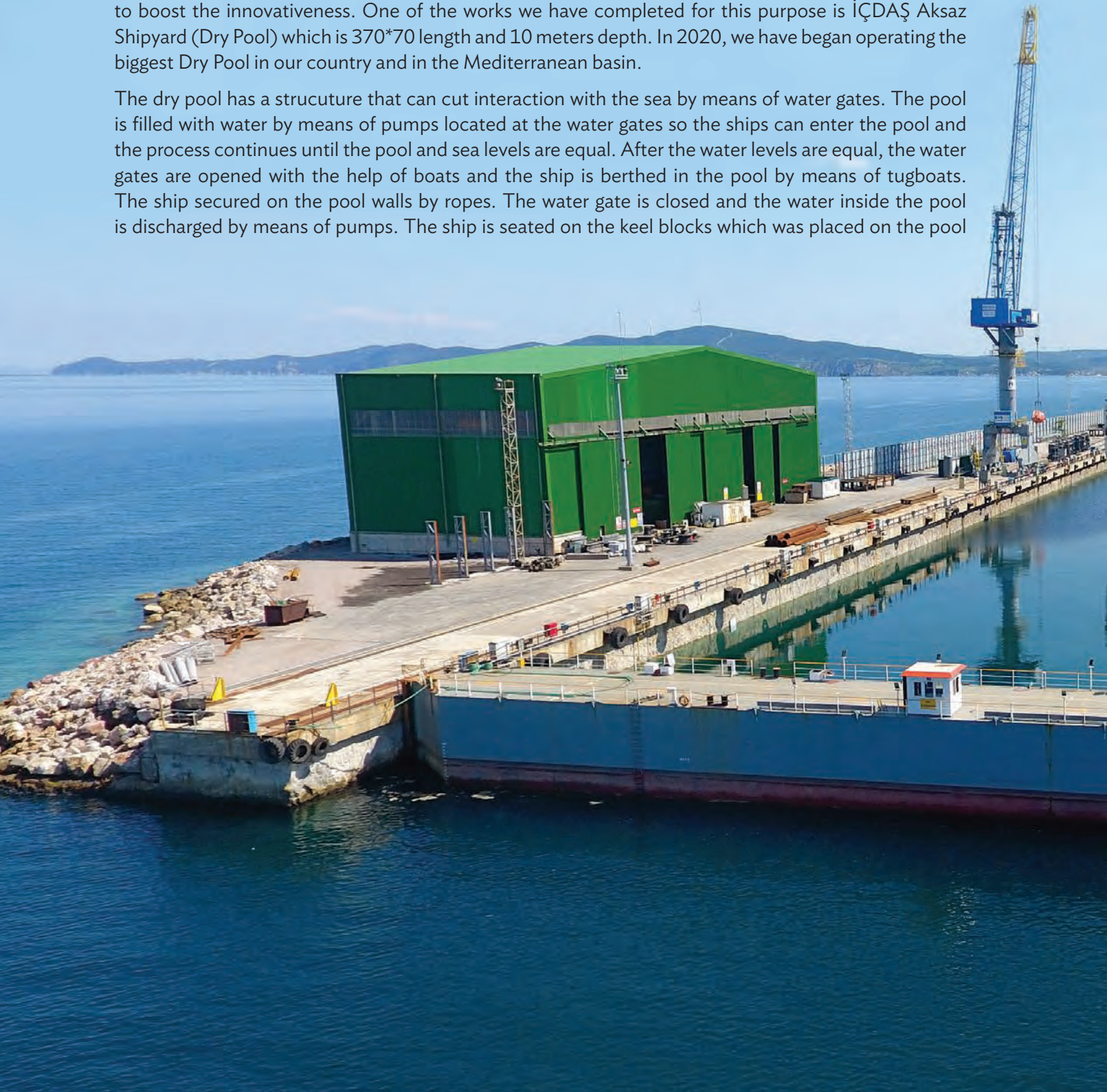


We also make a significant economic contribution with our ship berthing and loading/ unloading activities in our ports with high capacity. Within the scope of our Değirmencik facility, we have completed the construction of the largest dry pool shipyard in our country in 2020 and began operations.

### Aksaz Shipyards (Dry Pool)

The interactions in the ports and coastal towns have played a significant role in the development of civilizations and humanity. The most important feature that determined the shapes and construction of the ports has been the sizes of the ships. There were shipyards for the big ports and shipbuilding in the port towns where the commerce was active. Maritime industry has a huge role in the growth and development of the country. We aim to create a humanly labour and economic growth in all of our activity areas. Our primary target is to support an inclusive and sustainable industrialization and to boost the innovativeness. One of the works we have completed for this purpose is İÇDAŞ Aksaz Shipyards (Dry Pool) which is 370\*70 length and 10 meters depth. In 2020, we have begun operating the biggest Dry Pool in our country and in the Mediterranean basin.

The dry pool has a structure that can cut interaction with the sea by means of water gates. The pool is filled with water by means of pumps located at the water gates so the ships can enter the pool and the process continues until the pool and sea levels are equal. After the water levels are equal, the water gates are opened with the help of boats and the ship is berthed in the pool by means of tugboats. The ship secured on the pool walls by ropes. The water gate is closed and the water inside the pool is discharged by means of pumps. The ship is seated on the keel blocks which was placed on the pool

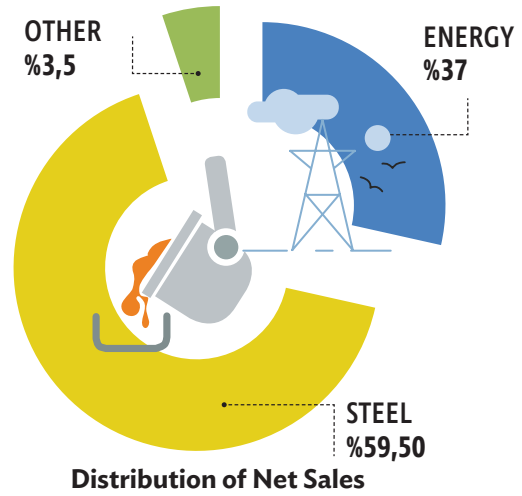
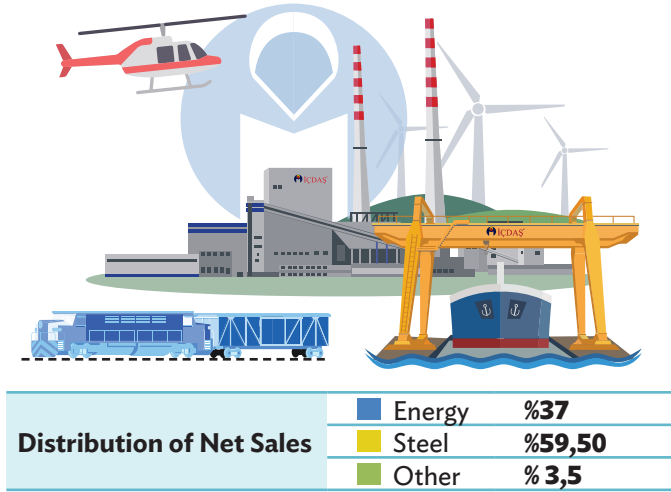


ground according to the keel block plan and the maintenance and repair works can be started on the underwater parts of the ship (propeller, steering, haft, etc.) Thus, the maintenance and repair works of the ships becomes easier and more secure.

All the maintenance works can be performed according to the needs of the ships. The maintenance works for ships up to 330\*60 sizes can be performed. The works done here mainly includes weld bonding, base coat and top coat paint, engine, electrical and furnishing installation. Shipbuilding works can be performed in the pool, apart from maintenance and repair works. Aksaz Shipyard is the first shipyard that has the capacity to build an aircraft carrier in our country. We are proud to contribute to our National Defence Industry with 100% national capital.



## Distribution of Net Sales



## Results and Achievements



**Environmental:** By increasing the control frequency of environmental impacts, environmental impacts from activities were reduced.



**Economic:** We have developed new activity areas by the investments in the sustainable economic growth. We aim to create an economy by continuing our works for the fleet management system in railway transport.



**Corporate:** The validity of our management systems documents has been maintained and the continuity of our company's corporate reputation has been ensured.



**Social:** Our improvements in occupational safety standards have contributed to our employees working in safer and safer environments.



## Completed and Ongoing Investments in 2020

Investment Name	Place of Investment	Investment Description	Total Budget	2020	
					Investment Amount
•• Integrated Steel Manufacturing Plant	Değirmencik - Biga	Assessments continues.	\$ 800.000.000		-
•• Skilled Steel Bar	Değirmencik - Biga	Assessments continues.	\$ 500.000.000		-
•• Cement and Clinker Plants	Biga-Bekirli ve Biga-Karahamzalar	Assessments continues.	\$ 250.000.000		-
•• Dry Pool additional dock and pier	Biga / ÇANAKKALE	Assessments continues.	\$ 70.000.000		-
•• PC Strand and PC Wire Production Facility	Biga / ÇANAKKALE	Assessments continues.	\$15.000.000		-
•• Special Steel Manufacturing	Değirmencik - Biga	Assessments continues.	400.000.000 ₺		-
•• Rail Transport – Locomotive Investment	Domestic	Assessments continues.	€ 11.000.000		-
✓ Aksaz Aksaz Shipyard Dry Pool	Biga / ÇANAKKALE	Completed	180.000.000₺	57.366.543₺	
✓ 7500 Dwt Stainless Chemical Tanker	Değirmencik - Biga	Completed	84.841.789₺	82.682.680₺	
•• 4500 Dwt Stainless Chemical Tanker	Değirmencik - Biga	Continues	60.000.000₺	1.918.512₺	
•• Number 2 Steel Continued Casting Machine Road Addition	Değirmencik - Biga	Continues	70.000.000₺	16.021.670₺	
•• 1200 Tonnes Scrap Spool	Değirmencik - Biga	Continues	19.308.720₺	19.308.720₺	
•• Gas Release Under Vacuum Facility	Değirmencik - Biga	Continues	63.000.000₺	5.500₺	
•• Number 3 Rolling Mill New Wire Rod Line	Değirmencik - Biga	Continues	350.000.000₺	1.229.064₺	
•• Hh-4 Wire Rod Line Automation Optimization	Değirmencik - Biga	Continues	9.000.000₺	4.595.481₺	
•• Steel plant-2 Modernization	Değirmencik - Biga	Continues	225.000.000₺	1.933.666₺	
•• Shipyard Supplemental Buildings	Değirmencik - Biga	Continues	56.000.000₺	1.409.426₺	
•• Lime Facility	Değirmencik - Biga	Continues	2.659.945₺	2.659.945₺	
•• Port Tugboat	Değirmencik - Biga	Continues	24.336.385₺	24.336.385₺	

## Local Economic Contributions



Our economic contribution to Çanakkale where the most of our investments located so far is approximately \$ 5.66 billion, including TRY 213,4 million in 2020. Indirect contributions to the economy of the region are much higher and long-term. Our use of employment priorities in favor of the people of the region strengthens this effect.

Detailed information about our social and environmental investments, education, sports and cultural support projects and indirect economic impacts that it create are included in the “Social Performance” section of our report.

## Production Target With Domestic Resources In Steel

Our natural resources is decreasing each day. In a world where there is more consumption than the renewing power of the nature, there is a constriction in the steel sector both national and international basis. Our work on more efficient processes that may be an alternative to scrap, which is the main raw material of our steel production, continues.

We perform our works to protect our natural resources and produce better quality and cost-effective production. We perform analysis and studies to use domestic and national resources, which is one of our production targets. The sections we use high energy in terms of environment includes the steel plant arc furnace and rolling annealing furnaces. Our work continues to convert waste heat energy from our electric arc furnace and rolling annealing furnaces into electrical energy. Also, we continue investments on the energy efficiency.



“ İÇDAŞ, solar power, wind power and hydro power plant renewable energy investments continue.”

## Energy Investments

Ensuring the security of supply in energy all over the world and in Turkey is critical for sustainability. Sustainable energy is already among the biggest needs of the next century. Population growth, industrialization and urbanization are the main reasons why our energy needs are increasing every day.

While the rate of external dependence on energy is 70% level, the energy import is the highest cost in foreign trade deficit. As İÇDAŞ, reducing external dependence on energy and ensuring security of energy supply, our sensitivity to quality and uninterrupted energy supply is increasing every day. Due to the high level of external dependence on natural gas, we continue to invest in fossil fuel-derived and environmentally friendly thermal power plants and renewable energy sources.

### İÇDAŞ Biga WPP (Wind Power Plant) Project

Wind power, being a renewable energy source, is among the clean and safe energy resources. In 2011, TEİAŞ (Turkey Electricity Transmission Co.P.) as a result of the tender organized by the wind farms, we implemented the 60 megawatt İÇDAŞ Biga WPP project in Biga district, Çanakkale province. After the decision of Çanakkale Provincial Directorate of Environment and Forestry stating that “EIA is not required” for the project, we started construction in 2014. We commissioned 16 turbines in 2015. By commissioning 3 turbines of 3.2 MW in 2016 with an investment of 100 million dollars, we have 60 MW licenced installed power with a total of 19 turbines. With this production amount, an annual carbon emission reduction of 70.000 tons will be achieved for 22/04/2018 - 20/04/2021 term. In addition to maintaining ecological balance, we aimed to create portfolio diversity in energy production and conduct carbon trading. We have completed the approval process required for Biga WPP to participate in the voluntary carbon market by obtaining gold standard certification.

### İÇDAŞ Biga SPP (Solar Power Plant) project

Our investments on renewable energy sources continues to achive zero carbon release. Installation of SPP on the roofs of rolling mills in our production facilities is among our targets. In 2017, we installed on one roof of our rolling mills with TRY 2.5 million investment. After getting permissions to connect to the public transformer power, our investments on the remaining roofs will be continued. We succeeded to achieve approximately TRY 1.5 million economic value with our production in 2020.



The clean energy sources, since it is an alternative to fossil-derived production for electricity production, will positively affect the close environment ecosystem and a population of 50.000 people around the plant.

## Our Local Procurement Practices

Our supplies from Turkey's internal borders cover the word "local" in the supply for İÇDAŞ. We meet the needs of our company from various parts of the world and Turkey, mainly in the supply of raw materials. In our purchasing procedures, we set the criteria for determining and selecting a local supply and supplier list.

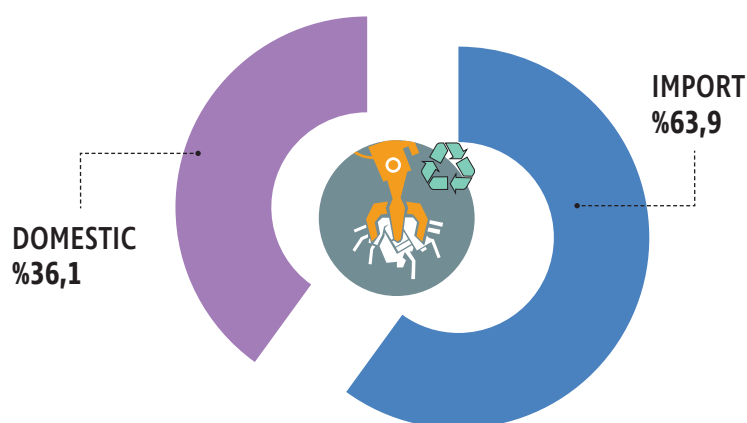
If the quality/price balance is optimal in our purchasing policy, the domestic alternative is the first priority. Scrap and coal, our primary raw materials, are ranked first in the ranking of materials purchased from abroad. We supply our needs such as fuel oil, machinery and equipment from within the country. 36.1% of our suppliers consists of our domestic suppliers. From a financial point of view, 63.95% of our expenses consist of our foreign suppliers.

### Steel Scrap Purchase Rates



#### Steel Scrap Purchase Rates

Import	% 63,9
Domestic Purchase	% 36,1



### İÇDAŞ SUPPLY CHAIN

İÇDAŞ Supply Chain Structure	Local	Foreign		
Total number of suppliers	2.787	194		
Locations of suppliers by country or region	<table border="1"> <tr> <td><b>Non-scrap</b> Marmara: 2.200 Aegean: 137 Other: 377</td> <td><b>Scrap</b> Marmara: 56 Aegean: 5 Other: 12</td> </tr> </table>	<b>Non-scrap</b> Marmara: 2.200 Aegean: 137 Other: 377	<b>Scrap</b> Marmara: 56 Aegean: 5 Other: 12	European Community, Efta, America, Africa, China, Colombia, United Kingdom, India, Israel, Russia, Ukraine, Brazil, Bosnia And Herzegovina, Canada, South Korea, Libya, Malaysia, Mozambique, Lebanon, Adriatic, Turkey, Kazhakistan, Mexico, Japan, Lithuania, Czech Republic
<b>Non-scrap</b> Marmara: 2.200 Aegean: 137 Other: 377	<b>Scrap</b> Marmara: 56 Aegean: 5 Other: 12			
Types of suppliers	Main manufacturers, licensees, auditors, consultants, intermediaries, wholesalers, subcontractors, shippers, steel scrap suppliers	Steel scrap, coal, Pig Iron, billet Iron, spare parts supplier companies		
Approximate value of payments to suppliers	<b>TRY 4.62 Billion</b>	<b>TRY 8.18 Billion</b>		

# Our Social Performance

Our primary social stakeholders are the local community including our employees and the families of employees. Because of all our operations in our areas of activity we carry out, our responsibilities towards the development, safety, health of our employees and the local people in the areas where our facilities are located constitute our possible social effects. In carrying out our communication with our employees and planning our social and environmental investments, we act by taking into account the priorities of the local people, whom we define as ‘our neighbors’ within the framework of our Human Resources Policy.

## HIGHLIGHTS



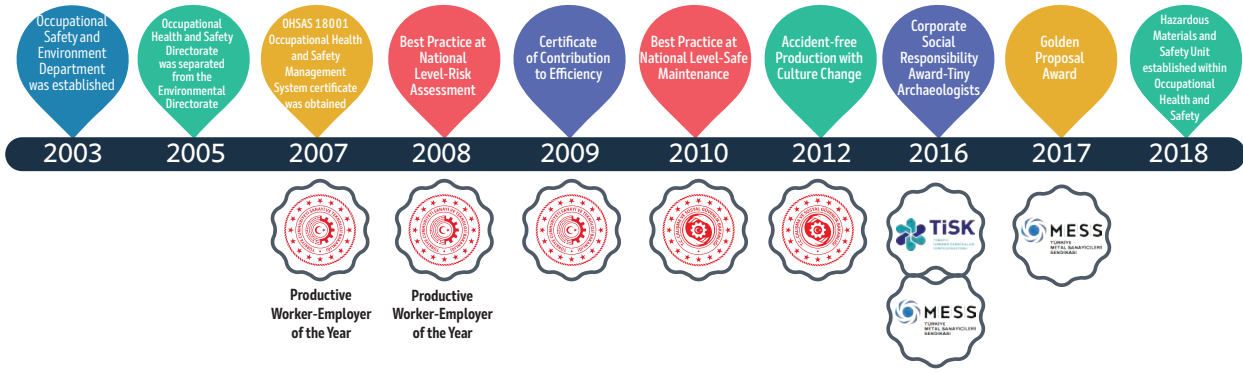
## Occupational Health and Safety



“ İÇDAŞ’s the preventive precautions for occupational safety and employee health is sufficient.”

Year	THE AWARDS ISSUED BY
2003	Occupational Safety and Environment Department was established
2005	Occupational Health and Safety Directorate was separated from the Environmental Directorate.
2007	OHSAS 18001 Occupational Health and Safety Management
2007	Productive Worker-Employer of the Year Ministry of Science, Industry and Technology
2008	Productive Worker-Employer of the Year Ministry of Science, Industry and Technology
2008	Best Practice at National Level-Risk Assessment Ministry of Labour and Social Security
2009	Certificate of Contribution to Efficiency Ministry of Science, Industry and Technology
2010	Technology Best Practice at National Level-Safe Maintenance Ministry of Labour and Social Security
2010	Accident-free Production with Culture Change Ministry of Labour and Social Security- European Agency for Occupational Health and Safety
2012	Accident-free Production with Culture Change Ministry of Labour and Social Security- European Agency for Occupational Health and Safety
2016	Golden Proposal Award MESS
2016	Corporate Social Responsibility Award-Tiny Archaeologists TİSK
2017	Golden Proposal Award MESS
2018	Hazardous Materials and Safety Unit established within Occupational Health and Safety

## OCCUPATIONAL HEALTH AND SAFETY DOCUMENT AND AWARDS TIMETABLE



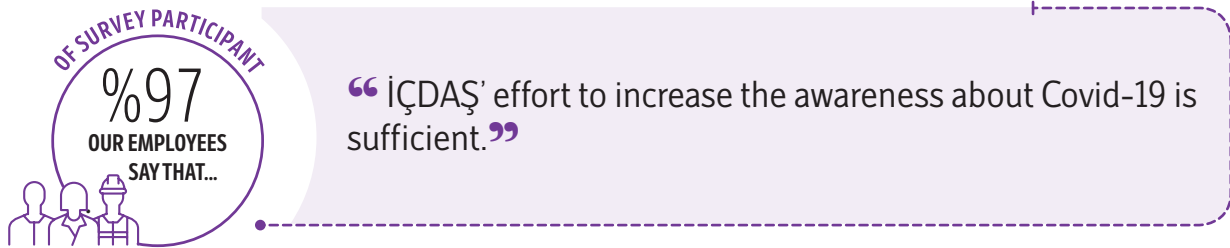
The steel industry is within the base metal industry and is one of the industries considered to be ‘heavy’. The mass of the material and the machines heavy and constantly moving from one place to another, such as the temperature of the melted metals to 1,800 degrees, toxic and corrosive substances, odor, smoke, and noise, pose the most significant risks in terms of Occupational Health and Safety.

The health and safety of our employees is one of our strategic priorities. As İÇDAŞ, we pay maximum attention to the health and safety of our employees within the framework of our Occupational Health and safety (OHS) Policy and OHS management system practices.

At İÇDAŞ, we implement the ISO 45001 - Occupational Health and Safety Management system as part of our risk management strategies in order to adapt to the changing occupational health and safety legislation, especially in the process of integration of our country into the EU acquis. This system allows our company to consistently assess health and safety risks, reduce accident risks, identify risky situations that are close to happening, and improve its overall performance.

In 2020, we trained our employees for 24.06 hours per person, including 12.07 hours OHS. Data on our OHS performance are included in the ‘Social Performance Indicators’ section of our report.

### Epidemic Diseases (Covid-19)



World Health Organization have declared a pandemic on March 11, 2020 after Covid-19 disease, which appeared at the end of year 2019 in the report term, have spread around the world. The first case was seen on March 11, 2020. Within the scope of “Preventive Precautions at work against Corona virus” announcement that was issued by Ministry of Labour and Social Security, decisions on the precautions to be taken at workplace are made after an urgent meeting, and started to be implemented. Informing the employees about Covid-19 by e-mails and banners and increasing the awereness have been ensured. An Action Plan for Precautions and Emergency on Covid-19 have been prepared and implemented.

- ✓ The areas where our employees use actively is being disinfected regularly via ULV devices.
- ✓ The employees who have a chronic disease were permitted to rest at home.
- ✓ Masks have been distributed to the employees regularly.
- ✓ Fever measurements have been started while getting on the employee servi and single seat order have been implemented.

- ✔ Training organizations have been suspended. Remote Learning Module have been purchased to be able to continue employee trainings actively.
- ✔ Eating hall seat order have been changed The number of TVs in the mess hall have been increased. CCTV videos have been published for TVs to increase Covid-19 awereness.
- ✔ Thermal fever thermometers were placed in the main entrances.
- ✔ PCR tests have been started to be conducted on our employees regularly.
- ✔ HES control was added to the card pass system at the main entrance doors and the entrance possibility of risky employees have been prevented to enter into the facility.
- ✔ Kleentech nano ion technology was implemented for disinfection processes.
- ✔ TUV SUD have conducted an inspection in our plants in the scpoe of COVID-19 Occupational Health and Safety Control Precautions Inspection Form and the certificate of compliance have been received.

The health of our employees and their families will always be in the first place. All the precautions taken in our facilities will continue to be implemented definitively during epidemic.



“ İÇDAŞ’s precautions to help preventing the spread of Covid-19 which affected the whole world in 2020, is sufficient.”

## Radiation Safety

We produce steel in our steel plants by melting the scraps. One of the precautions we took in our facilities is radaitaion safety to recycle scrap without creating risks to the environment and safety of workers. We are also among the leading organizations of the sector with our existing measurement systems and investments. Every day, steel scrap enters our Biga facilities regularly from many parts of the world and Turkey. The countries in our scrap supply system are the least likely to contain explosives, chemical waste or radioactive waste and contamination. We control steel scrap at every stage from the procurement process to its admission to our facilities and its processing.

Scrap, whose purchase process is carried out from abroad, is obtained from licensed scrap processing plants. İÇDAŞ Scrap Surveyors make regular visits to suppliers and provide compliance to check whether the enterprises have sufficient technical requirements. Scrap is loaded onto the ship by conducting radiation and chemical control under the supervision of independent international surveillance companies.

Our facilities have a total of eight entrance and exit gates, four of which are in the port and four on the highway. All the scraps brought to our facilities have to use those gates. All of our doors have a fixed radiation measuring device. Our Scrap Surveyors check again for scrap that has successfully passed the entrance checks. We have developed additional control mechanisms to prevent errors caused by humans or equipment. Fixed radiation measurement devices are available in our facilities, where we have smoke extraction and dust collection systems to detect radiation right after smelting process. Although it is very unlikely that radiation will be detected after our actively operated control mechanisms. Our products are checked for the last time in fixed Radiation Measurement Systems located at the exit doors before they are taken out of the facility.

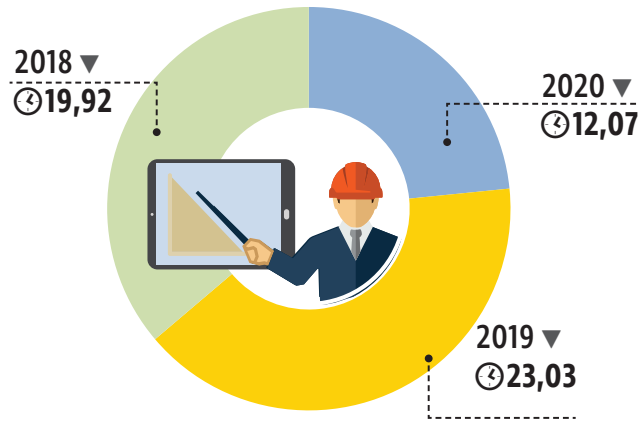
# Training and Education



“ Training and programs provided by İÇDAŞ with its employees to support personal development is sufficient.”

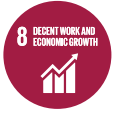
In 2020, we provided 96,229 hours of training to İÇDAŞ staff in 9 main headings, including health, safety and personal development trainings.

OHS Training Time Per Staff	Unit	2018	2019	2020
All Employees	Hour/Employee	19,92	23,03	12,07



Detailed documentation of our training data is included in the “Social Performance Indicators” section of our report.

Trainings by Subject (employee x hours)	Hour
Occupational Health and Safety	48.292
Orientation	11.488
Professional	20.183
Single Point	6.312
Information Security	2.581
Quality	2.189
Personal Development	480
Energy Management System	2.133
Environment and other	2.571
Total	96.229

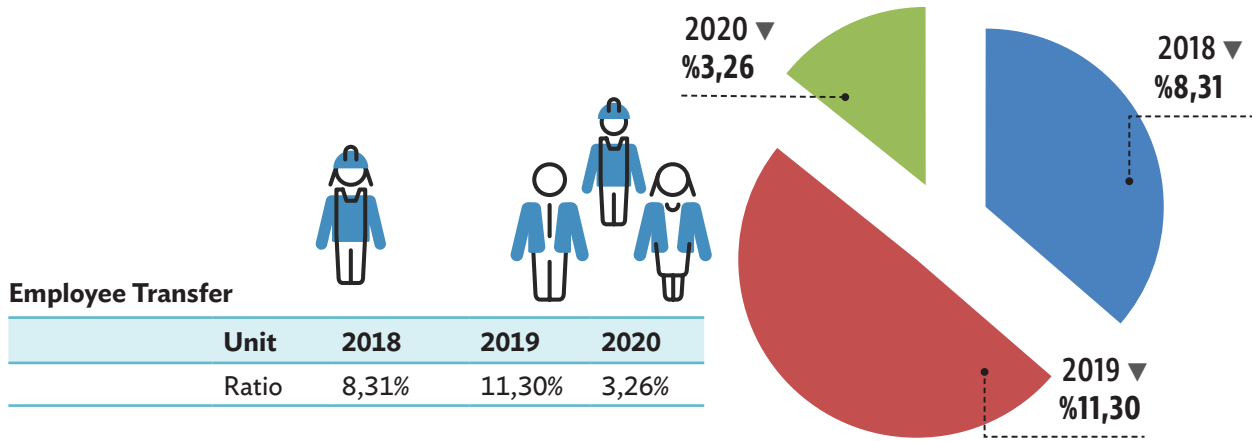


# Relations with Our Employees

At the beginning of the most important elements of our participation among the high-ranking companies in the world with its production capacity and technologies today comes the knowledge, skills, experience and diligence of its human resources. At the same time, the labor of its employees is its largest capital. As always, our employees are our priority stakeholders within the scope of sustainability. We described the part of our mission related to our employees as **“ensuring that our working environment is safe and efficient, recognizing fair attitude, teamwork, open communication, personal reliability and opportunities for development”**. We aim to develop and advance our activities with a happy and participatory human resource created through the provision of both their health and safety and their personal development.

Firewood, marriage, birth, death, military, children, education, food, transportation, shoes, natural disaster supplies, cleaning supplies, bonuses, holidays and additional contributions outside of salary, such as paid annual leave are provided to our full-time employees.

Services and ancillary rights offered to employees: right to withdraw advance, workers ‘ services, health center, lodging. It is possible for the children of employees to participate in İÇDAŞ Sports Club Activities free of charge.



## İÇDAŞ Recommendation System (İÇÖS)

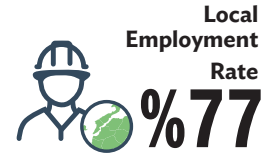
İÇÖS Recommendation System is the most important communication channel between employees and our Board of Directors. It is a communication platform created with the initiative of the Board of Directors in order to benefit from the ideas and suggestions of the employees and to increase the management communication of the employees in 2008. We announced a manual detailing the purpose, scope, operation of the system and the benefits it will bring to the company and employees.

Our employees consider all the improvement suggestions (productivity, OHS, environment, quality, etc.) they throw the internal proposal forms that they fill into the proposal boxes located in the dining rooms of the facility. These recommendations are collected periodically and examined at İÇÖS work unit meetings. Recommendations applicable in this review are submitted to the Executive Board of the İÇÖS. The board approves the appropriate proposals and initiates work to take effect.

İÇÖS is run by a 20-person committee consisting of a working unit and an executive committee. A total of 854 proposals came from the beginning of the system until the end of 2020, and 312 of these proposals were implemented for OHS improvement and labor efficiency. Cost savings were also achieved in production processes.

## Local Employment

We give local employment great importance in improving communication among our employees and enabling the quality of life of the people of the region to improve. Evaluating local human resources is one of our priorities when recruiting for Değirmencik Integrated Facilities and Bekirli Thermal Power Plant, applications from the people of the region are among our preferred reasons.



Today, more than four thousand regional people are directly employed within İÇDAŞ, while the regional employment created by our company with the services received from the region reaches six thousand people.

Local Employment In Çanakkale	Status	2018	2019	2020
Senior Directors	Local	20 38%	24 %48	26 46%
	Other	32 62%	26 %52	31 54%
Değirmencik Facility	Local	3426 77%	3195 79%	3285 76%
	Other	1050 23%	859 21%	1013 24%
Bekirli Facility	Local	617 81%	567 82%	586 83%
	Other	141 19%	126 18%	123 17%
Total	Local	4063 77%	3786 %79	3897 77%
	Other	1223 23%	1011 %21	1167 23%



“ The works performed by İÇDAŞ to inform and increase the awareness of the employees about ethical work applications is sufficient.”



## Equality of Opportunity and Human Rights

We create equal opportunities for our employees regardless of their gender. We adopt the principle of equal pay for equal work as stated in our Human Resources Policy. Female employment in our group constitutes 2.71% of total employment. In our country, as in the whole world, our female employment rate is low due to the nature of the steel and energy sectors.

We certainly do not have significant and risk-bearing operations related to child and forced labor, including our group companies. In the Book of Management Policies, our rules on human rights and working conditions for our company and suppliers are described in detail.

Our proportion of unionized workers depends on the large scale of the sector being labor intensive. One of our communication platforms is the monthly evaluation meetings attended by trade union representatives and workers’ representatives.

Our Employees Under Collective Bargaining Agreements	2018	2019	2020
Number	2.999	2.697	2.870
Rate %	51,5	51,09	51,78



(GRI 102-41)



“ In the eyes of the locals living in the regions in which İÇDAŞ’s facilities are located, İÇDAŞ is a company that respects their rights, cares about public health / safety and positively impacts the region with its activities..”



## Relations with the Local Community

We aimed to protect the values and interests of the people of the region since the first day of our investments in the region. It is important that our managers are mainly people of the region in achieving this goal. We aim to reach primarily to the local community in all our corporate responsibility works we have carried out together with our investments and activities and we respect the culture, history and traditions of the region.

### Facility Introduction Trips

We started to organize factory promotion trips with the support of İÇDAŞ Press and Public Relations Directorate in 2020. As the public did not have sufficient knowledge of our company’s production and environmental practices in 2010 and the public requested to see our company and facilities on site and to obtain information.



For this purpose, in the last ten years a total of 10,217 of people, including those from universities, colleges, high school and elementary school students, members of Chambers of artisans, representatives of NGOs and associations, local and central government representatives, parliamentarians and representatives of the media in the region of Çanakkale have visited our facilities, with 1,004 of those visiting in 2019. About 70% of visitors were school and university students in the region, while the remaining 30% were NGO representatives. In 2020, we could not host visitors because of the Covid-19 disease that affected the whole world.

We ensured the views and thoughts about the visits to our facilities to appear in the written and visual media to enable a larger part of the society to be informed about the trips that happened before 2020. Our goal was to establish cooperation with the local public in an ever-strengthening manner and create a positive common perception across different social strata by providing direct observation-based information to external stakeholders, starting with the immediate vicinity, on İÇDAŞ's environmental and water management systems, social responsibility practices, work environment and innovative production technologies. After Covid-19 ends, we will continue to work by re-opening our facilities for visits to inform the public properly.

We ensure that opinions and thoughts about the visits are included in the written and visual press and that the application is transmitted to wide segments of society. We aim to provide a respected corporate perception through direct observation.

## Results and Achievements



**Environmental:** İÇDAŞ's sensitivity to environmental values has been the most important gain of the application with regard to public perception. Each of our visitors has been an ambassador who has spread our sensitivity.



**Economic:** The implementation will help our facilities provide adequate and skilled employment in the region in the long term.

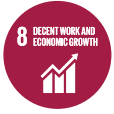


**Corporate:** The corporate performance of our company and the meaning of the awards it has received in many branches became much more clearly understood by the public. While creating a great sense of trust among internal stakeholders, İÇDAŞ has developed the sense of corporate belonging and motivation of the employees to work.



**Social:** The application strengthened the communication between the external stakeholders by enabling them to familiarize themselves with İÇDAŞ and the facility authorities, enabling our internal stakeholders to take part in the activities carried out by the external stakeholders. Non-regional stakeholders have also made requests to participate in the implementation.





# Our Social Investments



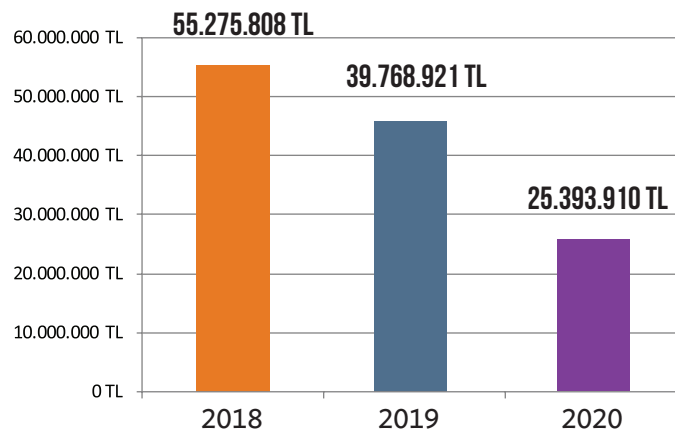
“ İÇDAŞ’s social progress investments with regard to the local public in the areas in which İÇDAŞ’s facilities are located are sufficient.”

We are aware of our responsibilities with our motto” healthy-educated-social Youth; solid Society”. We continue our work to increase educational opportunities, improve social life with the quality of life of society, and meet social needs and expectations. In 2020, we have bought a second PCR test device for Biga State-run Hospital to ensure PCR tests to be performed more since it is the most reliable test for Covid-19. We continue to support the young population living in the region with a holistic approach to protecting our cultural heritage, which appeals to our investment in education and sports and the whole of society, so that they are educated, healthy, members of society with thousands of years of heritage and full confidence in themselves and high levels of prosperity.

Our social investments, which we always care about, reached TRY 334.1 million in 2020, with TRY 25.3 million in Çanakkale territory. Social and environmental infrastructure supports consist of the financial and material assistance that we provide for the construction and repair of structures such as road bridges, mosques, parks, transmission lines, etc.

Our Support to Local People and the Local Economy	2018	2019	2020
Social and Environmental	29.384.314	34.774.244	21.256.551
Sport	1.009.165	343.201	337.920
Training	20.094.043	158.662	1.682.623
Cultural	4.788.286	4.492.814	2.116.816
Total	55.275.808	39.768.921	25.393.910

## Our Support to Local People and the Local Economy



## Education Support

We have provided scholarships worth TRY 7.3 million to 3,905 students in the last 12 years to facilitate their life in education and to provide improvement to their social lives. We have constructed 1 Kindergarten, 1 Primary School, 1 Science High School and 2 Vocational High School for the youth to

keep their education on a fully equipped schools. We also contribute to the higher education schools by providing library training and meeting halls, laboratory and other infrastructures. We aim they would become a member of the society having self confidence, well-education and a higher welfare level.

## Sports Support

We aim to support the development of young people in the region with a healthy, high self-confidence, team spirit, competitive, sporting structure. As İÇDAŞ Sports Club, we primarily support our employees and their children for their participation in sports activities such as Sailing-Windsurfing, Swmiming, Basketball, Chess and Archery. We have the rightfull pride that our sporters represent our country and İÇDAŞ in the international competitions. We also support the sports branches and clubs operating in our region.

## Support for Cultural Development

In order to promote the historical and cultural riches of our region and unearth the universal value of our country, we undertake the task of contributing to the development of Anatolian cultural history by undertaking the main sponsorship of the excavations of Parion the customs city of Rome, Smintheion the riding center, Troia the city of legends, Assos the city of philosophers, Alexandria Troas the city Alexander gave it name , Maydos Kilistepe ancient city and Gürecealtı rescue area. We pioneer to share the results of the scientific research by publishing in the national and international public.

İÇDAŞ, being the first company to sponsor 7 important archeological excavations at the same time both in our country and in the world, we take pride in preserving our cultural heritage.

## Stakeholder's View

### VEYSEL GÜLER / KEMER VILLAGE CHIEF

İÇDAŞ have supported our village on both economical and social subjects. İÇDAŞ giving priority to the local people to choose employees since it was founded, provides our young ones with jobs. Our youth work in the proper sections in İÇDAŞ according to the diplomas and certificates they had. We enabled the youth which does not have a professional competence certificate but want to work, to get a certificate and to work in the appropriate departments by opening İŞ-KUR Supported professional courses. İÇDAŞ enabled a regular life and an opportunity to shape their future by providing job opportunities for 5,000 family in our city and by raising living standards in the region.

İÇDAŞ have contributed not only to the economic life by providing job opportunities but also contributed to social life in many ways. The most of important of which is maybe the contributions to uncover the historical areas. İÇDAŞ supports many archeological excavations in Çanakkale. The excavation site that has got İÇDAŞ support for a lonest time is Parion excavation site in our village borders. This excavation site provides economic contribution to our village with the visitis of the domestic and foreign tourists.

İÇDAŞ also makes a difference with the support for the education. With the schools and sports halls İÇDAŞ have built in our village, in our district and in our city, our youth have a better education opportunities. Moreover, İÇDAŞ demonstrated a sensitive behaviour in providing the maintenance and repair tools for the schools and sports halls that was built. İÇDAŞ Primary School of our village were also built by İÇDAŞ. We would like to sincerely thank İÇDAŞ for the contributions in our region.

# Our Social Expenditures

Activity	Place of	Related Stakeholders	Type	2020 Budget (TRY)
Parion Excavation Site	Çanakkale	Ministry of Culture and Tourism	Cultural	495.676,41₺
Assos Excavation Site	Çanakkale	Ministry of Culture and Tourism	Cultural	433.038,21₺
Troia Excavation Site	Çanakkale	Ministry of Culture and Tourism	Cultural	403.330,44₺
Apollon Excavation Site	Gürpınar	Ministry of Culture and Tourism	Cultural	326.744,10₺
Troyas Aleksandro	Çanakkale	Ministry of Culture and Tourism	Cultural	210.282,61₺
Maydos Excavation Site	Çanakkale	Ministry of Culture and Tourism	Cultural	247.744,36₺
18 March Hatime Ana Grand Mosque	Çanakkale	Religious Affairs/ÇOMÜ	Social and Environmental Infrastructure	16.520.000,00₺
“Biz Bize Yeteriz” Donation Campaign	General		Social and Environmental Infrastructure	962.767,00₺
Student Scholarship Payment	Biga	Directorate of National Education	Education	468.660,00₺
Sportive Sponsorship	General	Çanakkale Governorate	Sport	335.560,35₺
İbni Haldun University	Başakşehir	Turkey Youth and Education Foundation	Education	1.000.000,00₺
Biga Vocational High School Vocational High School Donation	Biga	Directorate of National Education	Education	122.430,00₺
Biga State-Run Hospital PCR Device	Biga	The Ministry of Health	Social and Environmental Infrastructure	349.933,74₺
İlim Yayma Foundation	General of country		Social and Environmental Infrastructure	133.000,00₺
Concrete and Iron to Construct Biga Governorate Şahmelek Picnic Area Road Construction	Biga	Çanakkale Governorate	Social and Environmental Infrastructure	1.105.423,85₺
Çanakkale Governorate Ezine Food İhtisas Organizaed Industry Area Iron Donation	Ezine	Çanakkale Governorate	Social and Environmental Infrastructure	795.027,00₺
Foundation, Chief Building, District Governorate Municipality, Police Station Iron and Other Donations	General of country		Social and Environmental Infrastructure	879.647,35₺
Afad İblid Brick House Construction	İblid		Social and Environmental Infrastructure	60.000,00₺
Lapseki İÇDAŞ-ÇİB Vocational High School	Lapseki	Directorate of National Education	Education	44.627,60₺
İÇDAŞ Kindergarten	Biga	Directorate of National Education	Education	21.830,00₺
Biga İÇDAŞ Sparts Hall	Biga	Çanakkale Governorate	Sport	2.360,00₺
Biga District Gendermarie Command	Biga	Çanakkale Governorate	Social and Environmental Infrastructure	247.800,00₺
Kemer Village	Biga	Çanakkale Governorate	Social and Environmental Infrastructure	9.440,00₺
İlahiyat İÇDAŞ Congress Center	Çanakkale	Çanakkale Governorate	Social and Environmental Infrastructure	67.614,00₺
İÇDAŞ Science High School	Biga	Directorate of National Education	Education	25.075,00₺
Balıklıçeşme District Gendermarie Command	Biga	Çanakkale Governorate	Social and Environmental Infrastructure	87.367,20₺
Buying Supplies for Syrian Families	Biga	Çanakkale Governorate	Social and Environmental Infrastructure	38.530,42₺

## Number of Students and Scholarship Amounts

Year		2018	2019	2020
Vocational High Schools	Girl	8	14	13
	Boy	12	10	7
	Total	20	24	20
University	Girl	87	96	49
	Boy	118	54	74
	Total	205	150	123
Other	Girl	15	6	6
	Boy	11	8	7
	Total	26	14	13
Total Students		251	188	156
Total Scholarship Amount		528.260 TL	494.550 TL	468.660 TL

## Business Opportunity for Graduates Without Requirement of Military Service From İÇDAŞ!



As in all sectors involved in business, the metal sector also requires a qualified work force. We create jobs by providing employment opportunities to new graduates while allowing qualified employees to train with the support we give to education. We give priority to İÇDAŞ Biga vocational and technical Anatolian High School graduates in employment without the requirement of having completed their military service.

To this end, a protocol was signed among İÇDAŞ Biga Vocational and Technical Anatolian High School and İÇDAŞ A.Ş. and Turkish Metal Industry Union Education Foundation (MEV). In this context, students who graduated from the Department of Electronic Technology are employed at İÇDAŞ Çelik Enerji Tersane ve Ulaşım San. A.Ş. without the requirement of having completed military service.

## Trainings at ÇOMÜ Çanakkale 18 March University and Biga Vocational High School

We see the opening of departments in our higher education institutions without regard to the sector as the main reason why our young people who have graduated from these places face the employment problem. The absence of personnel with the required qualifications is one of the important problems of the private sector.

As a result of a meeting between the General Directorate of İÇDAŞ and the rector of Çanakkale Onsekiz Mart Üniversitesi, an agreement was reached on the opening of “electricity generation, transmission, distribution” and “Metallurgy” programs within the Biga Vocational School to train trained and qualified personnel. As of the 2013-2014 academic year, we have established a commission between İÇDAŞ officials and Biga Vocational High School officials in order to bring the course plans in line with practical applications. In içdaş, engineers who have proven themselves in their profession, who serve as director, chief and Assistant Chief, give professional courses in their fields. Some classes are held in practice in the factory.

As İÇDAŞ, with the responsibility of being the largest heavy industry organization in the region, we provide comprehensive education to students on working conditions, quality control, Occupational Safety and environment in heavy industry conditions with the course content prepared for processes in iron and steel and electricity industry.

In 2020, no students were enrolled in the Department of Metallurgy at the Vocational High School. Training was decommissioned in 2020. If students are admitted to the department, we will continue to provide training and students with a team consisting of our Principal, Deputy Director, Chief, Assistant Chief and engineers.

## Results and Achievements



**Environmental:** we believe that protecting environmental values would be made more efficient by working with trained and skilled personnel.



**Economic:** We believe that the trainings given to students by people with experience in business life, supported by practices, will allow them to adapt to their business life and tasks faster and increase their productivity.



**Corporate:** We believe that the application will contribute to the creation of a highly competitive corporate structure and the employment of trained skilled and expert personnel at all levels of our facilities.



**Social:** With the application, we want to help young people alleviate their worries about the future while continuing their educational life.





# İÇDAŞ Sports Club

We started to offer sponsorship support for sportive activities so the youth can benefit the geographical advantages of the region. We established Karabiga Sailing School in Karabiga Resort in 2004 in order to meet the needs of the youth, completely free of charge. Thus, we provided an opportunity for the youth with world class facilities for water sports. We started to offer sponsorship support for swimming in Çanakkale in 2008 and we opened Çanakkale Sailing School in 2010. In 2011, we gathered all the sports activities within İÇDAŞ Sports Club. In 2012, we added windsurfing to our training activities consisting of sailing and swimming in 2013. In 2014, we added chess and basketball branches to the activities.

We aim to support the development of young people in the region with a healthy, high selfconfidence, team spirit, competitive, sporting structure. As İÇDAŞ Sports Club, we primarily support our employees and their children for their participation in sports activities such as Sailing- Windsurfing, Swmiming, Basketball, Chess and Archery. We have the rightfull pride that our sporters represent our country and İÇDAŞ in the international competitions. We also support the sports branches and clubs operating in our region.

Within the scope of Sports Club activities, we receive support regarding place arrangements, regional and national competitive organizations and logistics from Turkish Sailing Federation, Turkish Swimming Federation, Çanakkale Youth and Sports Provincial Directorate, Çanakkale Sailing Provincial Office, Çanakkale Swimming Provincial Office, Çanakkale Governorate, Biga District Governorate, Çanakkale Municipality and Karabiga Municipality. In addition, we scan every year in all primary schools in the city center in cooperation with the Provincial Directorate of Youth Sports and the Directorate of National Education in order to bring our talented and high physical potential children to the sport of swimming.

İÇDAŞ Sports Club, which has world-class infrastructure, has a total of 350 students, 198 of whom are licensed in five different branches. In 2020, the young people could not join the national and international comptetitions due to Covid-19 epidemic. After the epidemic, our support for young people will continue and they will take part in the competitions and continue to bring honour to our nation.



## Results and Achievements



**Economic:** The achievements of our athletes in industries such as sailing, swimming, surfing play an active role in the beginning of Çanakkale becoming a place of preference for sports tourism in Turkey. Today, our talented young people in swimming are settling in Çanakkale to continue their work within the İÇDAŞ Sports Club, and they prefer to continue their education and life in our region.



**Corporate:** İÇDAŞ Sports Club is the first institution that comes to mind in sailing and swimming sports in our region. Our athletes are a source of pride in our company with their active sports lives, team spirit and achievements in the competitions they participate in.



**Social:** As İÇDAŞ Sports Club, we have introduced thousands of young people living in our region to branches such as sailing, swimming, surfing. Some of these young people have been successful in being selected for the national team and have represented our country in international competitions. All coastal cities of our region hosted sailing tournaments, races and shows, while our athletes began to sail and achieve significant degrees in races held in our country and abroad. Achievements have increased children's self-confidence and paved the way for more important achievements..

Number of Students

Branches	Licensed	Amateur*	Total
1 Sailing - Windsurfing	53	5	58
2 Swimming	42	91	133
3 Basketball	84	-	84
4 Chess	-	47	47
5 Archery	19	9	28
<b>Total</b>	<b>198</b>	<b>152</b>	<b>350</b>



## Crowned Achievements !

**4**  
BRANCHES



**77**  
LOCAL



**3**  
NATIONAL



**2**  
INTERNATIONAL



**40**  
FIRST



**32**  
SECOND



**25**  
THIRD



## İÇDAŞ Sports Club 2020 Achievements

Branches	Awards	Competitions
Swimming	<b>24</b> Gold medal <b>19</b> Silver medal <b>12</b> Bronze medal	<b>61</b> Local <b>3</b> National
Sailing-Windsurfing	<b>24</b> Gold medal <b>17</b> Silver medal <b>12</b> Bronze medal	<b>16</b> Local







## İÇDAŞ's Journey of Sponsorship Support to Our Culture and History



“ We know that İÇDAŞ gives financial support to the excavations of the ancient cities in our region.”

The Troas region, one of the routes used by the Anatolian peoples of the Neolithic period during their migration to the European world, geographically corresponds to the Biga Peninsula, which is surrounded by the Aegean Sea to the west, the Bay of Edremit to the south and the Sea of Marmara to the North.

İÇDAŞ have undertaken the main sponsorship of the excavations of Parion the customs city of Rome, Smintheion the riding center, Troia the city of legends, Assos the city of philosophers, Alexandria Troas the city Alexander gave it name , Maydos Kilistepe ancient city and Güreçaltı rescue area. İÇDAŞ pioneer to share the results of the scientific research by publishing in the national and international public.

İÇDAŞ, being the first company to sponsor 7 important archeological excavations at the same time both in our country and in the world, takes pride in preserving our cultural heritage.



**2011 to present...**

  
**Apollon  
Smintheus**  
Ancient city of



**2015 to present...**



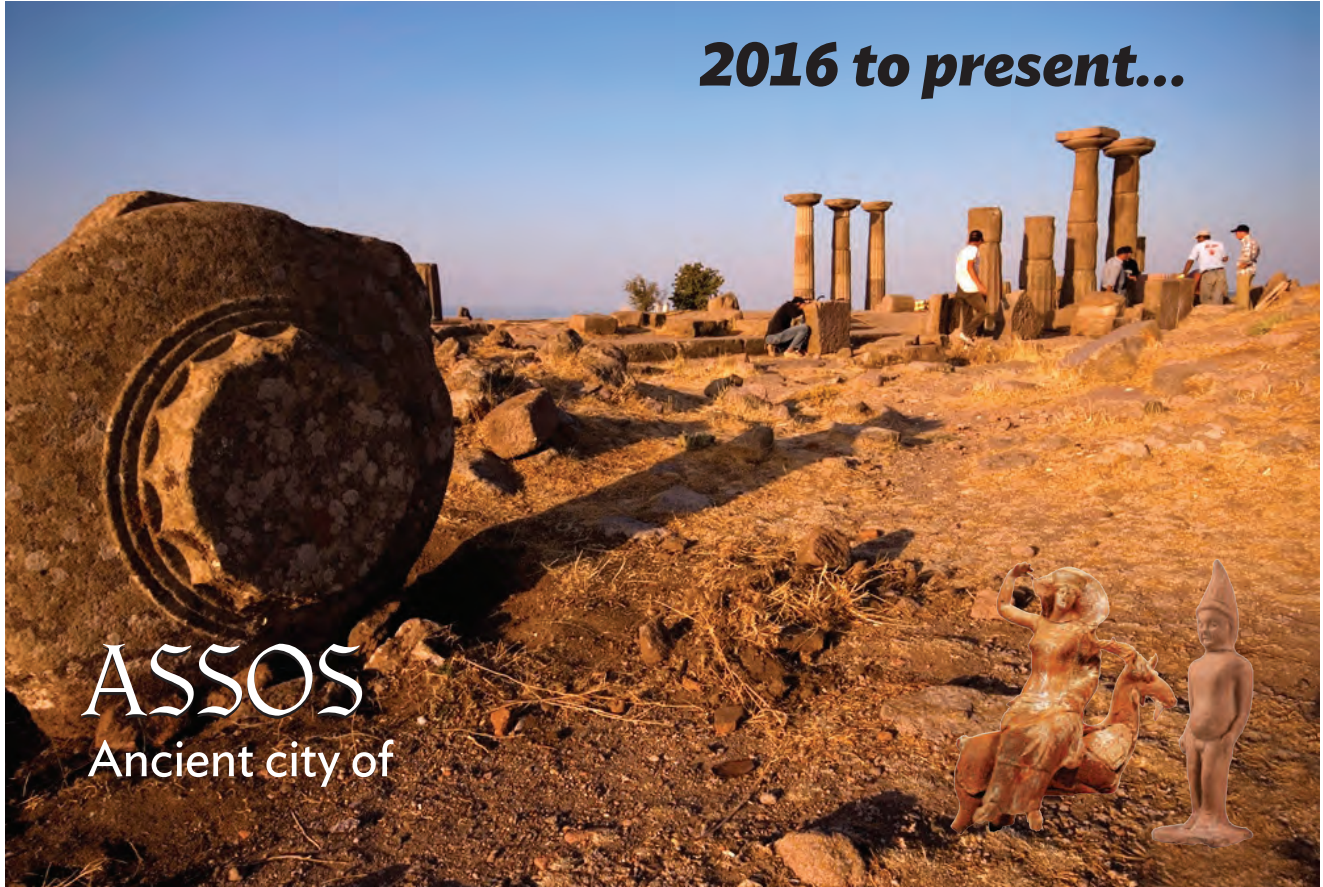
**TROYA**

Ancient city of



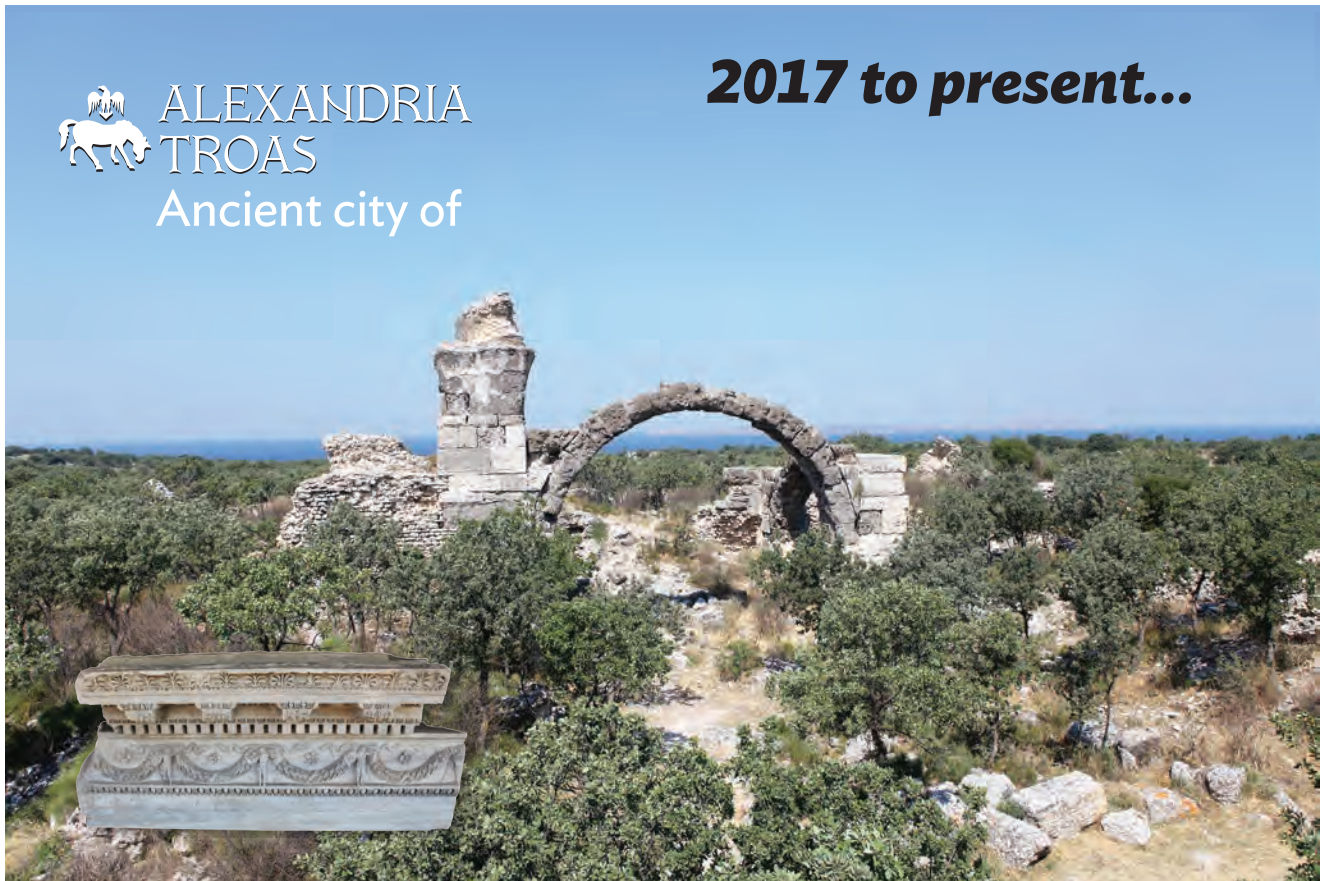
**2016 to present...**

**ASSOS**  
Ancient city of



**2017 to present...**

 **ALEXANDRIA**  
**TROAS**  
Ancient city of





*2018 to present...*

**MAYDOS**  
Ancient city of



*Excavations started in 2019*

**Güreçaltı Excavation Site**



# İÇDAŞ and the ENVIRONMENT

<b>2004</b>	Establishment Of The Environmental Unit
<b>2005</b>	ISO 14001 Environmental Management System Certificate
<b>2005</b>	İSTANBUL CHABER OF INDUSTRY Sector Environment Award
<b>2006</b>	KOCAELİ S.O. Şahabettin Bilgisu Environmental Incentive Award
<b>2008</b>	EU Turkey Programme Management Category 1st Place Award
<b>2009</b>	Akdeniz University. Environmental Service Award
<b>2009</b>	Establishment of an air quality measurement station for the first in the industry
<b>2010</b>	İSTANBUL CHABER OF INDUSTRY Sustainable Environment Award
<b>2010</b>	TÜBİTAK MAM Biga Peninsula environmental monitoring project
<b>2011</b>	Ministry Of Development Award For Best Sustainable Practice
<b>2011</b>	İSTANBUL CHABER OF INDUSTRY Environmental Management and Corporate Social Responsibility 1st Place
<b>2011</b>	Energy Academy Award In The Category Of Coal
<b>2012</b>	UN Rio + 20 Sustainable Development Conference, best practice example
<b>2012</b>	First environmental permit and license in steel industry
<b>2012</b>	UN Rio + 20 Sustainable Development Conference, best practice example
<b>2012</b>	Şahabettin Bilgisu Environment Award
<b>2012</b>	Implementation of SAIS installations
<b>2013</b>	Turkey's Cleanest Industrial Plant Çanakkale 1st Place
<b>2013</b>	Turkey's Cleanest Industrial Plant Turkey 1st Place
<b>2013</b>	Energy Academy Award In The Category Of Coal
<b>2013</b>	Publication of İÇDAŞ's first Sustainability Report
<b>2013</b>	LACP "World's 2nd Best Sustainability Report" (only report in our country to have made the list)
<b>2013</b>	Large-scale organization Environmental Friendly Practice Special Jury Award for social responsibility ( Biodiversity Project )
<b>2013</b>	Artificial reef and Biodiversity support project
<b>2014</b>	Energy Academy Award In The Category Of Coal
<b>2014</b>	Şahabettin Bilgisu Environment Award
<b>2016</b>	TÜBİTAK MAM Biga Peninsula environmental monitoring project extension
<b>2016</b>	İÇDAŞ A.Ş. Project realized in cooperation with TURMEPA "Çanakkale Sea Lovers-Blue Step for Çanakkale"
<b>2017</b>	Low Carbon Heroes Awards
<b>2018</b>	Finalist in the category of large-scale enterprise environment and Sustainability Management at the ISO 2018 Environmental Awards

# İÇDAŞ & ENVIRONMENT Time Table

**2004**

- Establishment of the Environmental Unit

**2005**

- ISO 14001 Environmental Management System Certificate
- ISTANBUL CHAMBER OF INDUSTRY Sector Environment Award

**2006**

- KOCAELİ CHAMBER OF INDUSTRY Şahabettin Bilgisu Environmental Incentive Award

**2009**

- Akdeniz Univ. Environmental Service Award
- Air Quality Measurement

**2011**

- Ministry Of Development Award For Best Sustainable Practice Application Award
- ISTANBUL CHAMBER OF INDUSTRY Environmental Management and Corporate Social Responsibility
- Energy Academy Award In The Category Of Coal

**2010**

- ISTANBUL CHAMBER OF INDUSTRY Sustainable Environment Award
- TÜBİTAK MAM Biga Peninsula environment

**2012**

- UN Rio + 20 Sustainable Development Conference , best practice example
- First environmental permit and license in steel industry
- Şahabettin Bilgisu Environment Award
- Implementation of SAISi

**2014**

- Energy Academy Award In The Category Of Coal
- Şahabettin Bilgisu Environment Award

**2013**

- Turkey's Cleanest Industrial Plant Çanakkale 1st Place
- Turkey's Cleanest Industrial Plant Turkey 1st Place
- Energy Academy Award In The Category Of Coal
- Publication of İÇDAŞ's first Sustainability Report
- LACP "World's 2nd Best Sustainability Report" (only report in our country to have made the list)
- Large-scale organization Environmental Friendly Practice Special Jury Award for social responsibility (Biodiversity Project)
- Artificial reef and Biodiversity support project

**2017**

- Low Carbon Heroes Awards

**2018**

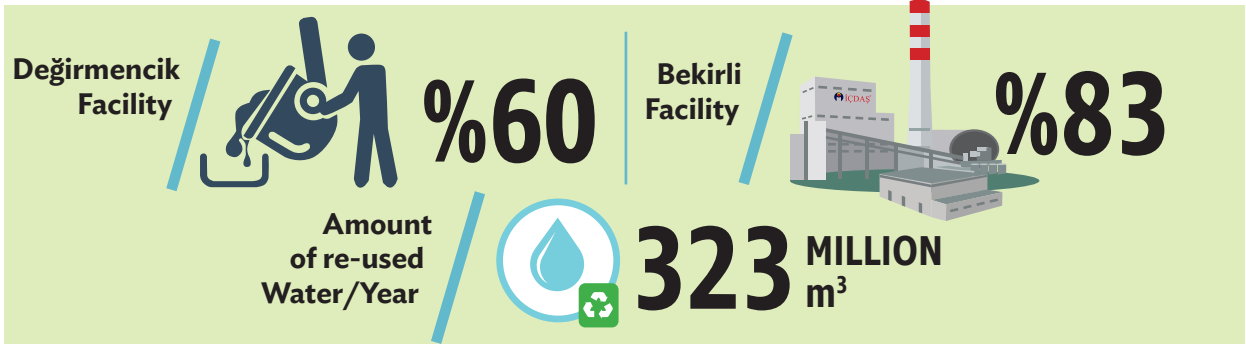
- Finalist in the category of largescale enterprise environment and Sustainability Management at the ISO 2018 Environmental Awards



# Environmental Performance

We continue our investments to protect the environment and human health in all processes. In all of our activity areas, in the scope of our environment policy, we aim a sustainable growth by means of preventing the environment pollution, reducing the waste, the efficient use of energy, putting the emissions under control, consuming the natural resources responsibly.

We continue our investments to protect the environment and human health in all processes from raw material selection to sending our products to customers in both our steel production facilities and power plants.



“ In the eyes of the locals living in the region, İÇDAŞ is a company that protects the environment / natural resources and prevents environmental pollution.”

## Environmental Management

We operate the largest arc furnace steel plant in our country in terms of capacity in our Değirmencik integrated plant. We reclaim thousands of tons of steel scrap coming to our plant by smelting them with the most advanced technologies and turning them into steel products. We carry out detailed checks on scrap at every stage from raw materials, auxiliaries, material selection, procurement to acceptance and processing to the facility. (Information for the Radiation Safety Administration is contained in the ‘Occupational Health and Safety’ section of our report.)

We carry our raw materials by sea and rail in order to keep carbon emissions per unit product at the lowest level. We managed to reduce our transport impact by 1% in 2020. The production techniques used in our facilities and all our investments are in line with the best applicable techniques reference documents published by the European Union. We adopt the cleanest and greenest production techniques used in the world and continuously improve these techniques.

In accordance with ISO 50001 Energy Management System principles, we work to make more efficient use of Natural Resources and save energy. We manage our environmental impacts in steel plants, power plants, lime plant, shipyard and port with ISO 14001 Environmental Management System.

In 2020, the total amount of operating expenses and investments we made for Environmental Protection was over TRY 239.1 million, of which about TRY 199.7 million was in Değirmencik and the rest was in Bekirli plant.





“ İÇDAŞ’s works regarding waste management, including waste water, and for the prevention of environmental pollution are sufficient..”

## Waste Management

Process-derived wastes are the most important subject of waste management. We regularly analyze our waste caused by the activities of our plant, monitor it. We record the metal ratios in slag, flue dust. We make improvements every year by comparing our waste per unit product with the values in the EU Best applicable techniques reference documents.

The process wastes are the most important subject of waste management. The process wastes from our facilities are steel mill slag, steel mill flue powder, rolling mill flood and thermal power plant ash. In addition to process waste, waste oils, WARL, packaging waste, organic waste etc. also come out of our facilities.

Our primary goal in waste management is to recover waste. We collect all waste, including waste taken from ships arriving at our port, separately at the source within the scope of the Zero Waste Project and send it to licensed recycling facilities in accordance with the legislation and recover or dispose of it. In 2020, we recovered 59% of our waste from our Değirmencik plant and disposed of 41% by methods in accordance with the law.

Our Değirmencik plant is the largest capacity recovery plant in our country because we recover more than 15 thousand tons of steel scrap per day during production. In 2020, we recovered 83% of our waste from our Bekirli facility and disposed of 19% by methods in accordance with the law. In 2020, we started to meet their raw material needs by obtaining a by-product certificate for volatile coal ash and sending it to cement factories and concrete production facilities. In this way, we continued our work on reducing our process waste from our plant.

	<b>T.C. ÇANAKKALE VALİLİĞİ Çevre ve Şehircilik İl Müdürlüğü</b>	
Belge No: TS/17/B2/15/2	<b>SIFIR ATIK BELGESİ (Temel Seviye)</b>	Tarih: 08/12/2020
Adı : İÇDAŞ ELEKTRİK ENERJİSİ ÜRETİM VE YATIRIM A.Ş. - BEKİRLİ TERMİK SANTRAL		
Adresi : ÇANAKKALE, Bekirli ve Kemer Köyleri, BİGA, TÜRKİYE		
Vergi No : 0850360464		
12/07/2019 tarihli ve 30829 sayılı Resmi Gazete’de yayımlanarak yürürlüğe giren Sıfır Atık Yönetmeliği’nce Sıfır Atık Yönetim Sistemi’ni kurarak <b>Sıfır Atık Belgesi</b> ’ni almaya hak kazanmıştır.		



T.C.  
ÇANAKKALE VALİLİĞİ  
Çevre ve Şehircilik İl Müdürlüğü



Belge No: TS/17/B2/15/5

Tarih: 08/12/2020

### SIFIR ATIK BELGESİ (Temel Seviye)

Adı : İÇDAŞ Çelik Enerji Tersane Ve Ulaşım Sanayi Anonim Şirketi Biga Şubesi  
Adresi : ÇANAKKALE,KÖYÜN KENDİSİ Mahallesi, SOKAK, No: 191-, BİGA,Türkiye  
Vergi No : 4810031427

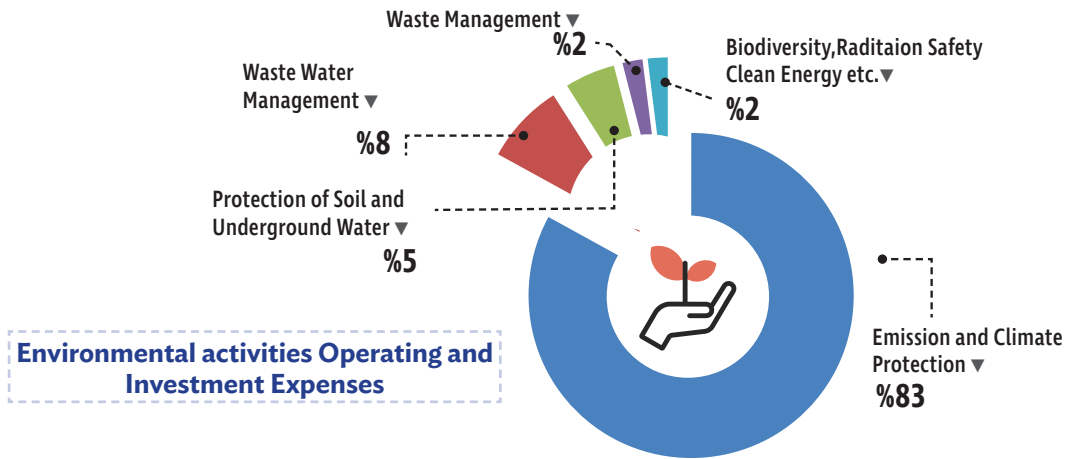
12/07/2019 tarihli ve 30829 sayılı Resmî Gazete'de yayımlanarak yürürlüğe giren Sıfır Atık Yönetmeliği'nce Sıfır Atık Yönetim Sistemi'ni kurarak Sıfır Atık Belgesi'ni almaya hak kazanmıştır.

## ZERO WASTE AT İÇDAŞ

Started with the aim of leaving a better world to the next generations, and carried out in the body of Ministry of Environment and Urbanization, and the zero waste project aimed to keep the wastes under control, as İÇDAŞ, we said "WE ARE IN FOR ZERO WASTE" in our production plants. We added 155 waste bins inside and outside of various points in our facilities in which our primary target is to recycle the wastes. In total, there are 325 waste bins in our facilities. We organized environmental trainings to raise awareness of our staff in the scope of zero waste. We tried to raise awareness by loading slides on the TVs inside the eating halls. We have taken part in the scope of zero waste by getting a zero waste certificate in all our production facilities to prevent wastefulness, to use our natural resources efficiently, to reduce the amount of waste, to degrade our waste in its source, to add value to the economy by recycling the wastes and to leave a clean and habitable world for the next generations.



Environmental activities Operating and Investment Expenses		
Emission and Climate Protection	185.074.051TL	%83
Waste Water Management	17.163.782TL	%8
Protection of Soil and Underground Water	11.531.974 TL	%5
Waste Management	4.953.424 TL	%2
Biodiversity, Raditaion Safety, Clean Energy and other	3.950.096	%2
<b>Total</b>	<b>222.673.327</b>	<b>%100</b>



## Artificial Aggregate Plant Investment and Use of Slag on Highways Project

İÇDAŞ is the first and only steel manufacturer in our country that produces artificial aggregates in accordance with AT standards from Arc Furnace slags. In order to prevent slag from being a waste accumulated in landfills and creating environmental pollution, slags formed in our facility are processed in our artificial aggregate facility established in our Değirmencik facility in 2012 and turned into artificial aggregates with EC conformity certificate (CE Certificate).

In the project, which is carried out with a budget of TL 4.6 million together with the members of the Turkish Steel Producers Association (TÇÜD), Istanbul Technical University (ITU) and the General Directorate of highways (KGM), the goal is to add artificial aggregates produced from slag to the KGM technical specification and make their use mandatory on highways. TÇÜD members provide financial support for the work.

In this process, ITU conducted all scientific studies on the use of slags on highways, conducted laboratory analysis of steel slags, studied compliance with the KGM technical specification and prepared various reports. KGM confirmed these results in its own laboratories and published the technical specification in 2017.

In 2018, Artificial aggregates produced from slag were included in the technical specification of highways and artificial aggregates started to be used in highways as a byproduct.

With this project, a permanent and effective solution was found for the biggest waste problem of the largest industrial enterprises of our country.

In 2018, a new study was launched with various universities in coordination of TÇÜD to enable artificial aggregates produced from slag to be used in marine fillings, railway construction and agriculture. Work continued in 2020.

## Results and Achievements



**Environmental:** The destruction of natural areas for waste disposal will be prevented and the damage caused to nature by quarries used in the construction of highways will also be reduced. Both waste storage will be eliminated and the use of natural aggregate used in place of these wastes will be reduced.



**Economic:** Slags can be used instead of natural aggregate, slag storage areas will disappear. This, in turn, will eliminate storage costs, making slag a saleable product. Labor and machine costs spent on obtaining natural aggregates will be reduced.



**Corporate:** İÇDAŞ continues to strengthen its corporate reputation as an important actor in a work that adds value to the country's economy.



**Social:** Reducing environmental pollution will have a positive impact on society.



## Water Management

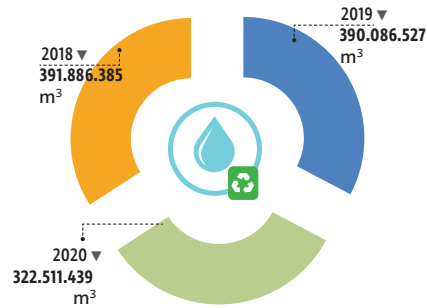
Since 2007, we have been managing a 'Sustainable Water Management Project' with a holistic approach at İÇDAŞ Değirmencik integrated plant and Bekirli Thermal Plant.

Our project was named one of the 24 best practices in Turkey in the field of Sustainable Development and Green Economy by the Ministry of Development, United Nations Development Programme (UNDP) and business and Sustainable Development Association (TBCSD) in 2012 and made us proud by representing our country at the Rio+20 summit in Brazil.

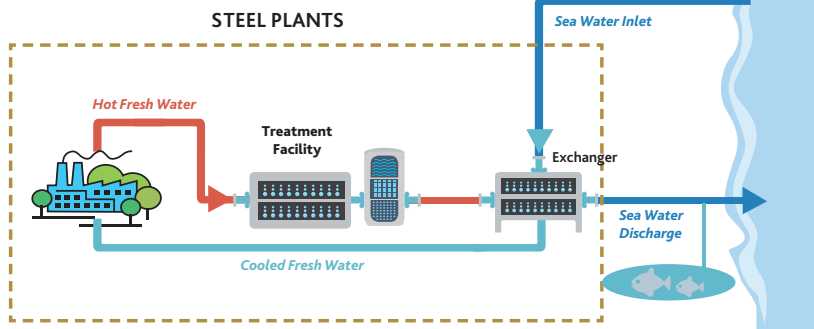
As İÇDAŞ, we supply water from the sea as use and process water in all our facilities. We meet 99% of our water needs in our steel plants and 98% of our energy plants from seawater. Because we use seawater, there is no water source affected by our activities.

### Reclaimed and Reused Water

2018	391.886.385 m <sup>3</sup>
2019	390.086.527 m <sup>3</sup>
2020	322.511.439 m <sup>3</sup>



### Cooling Water Flow Chart

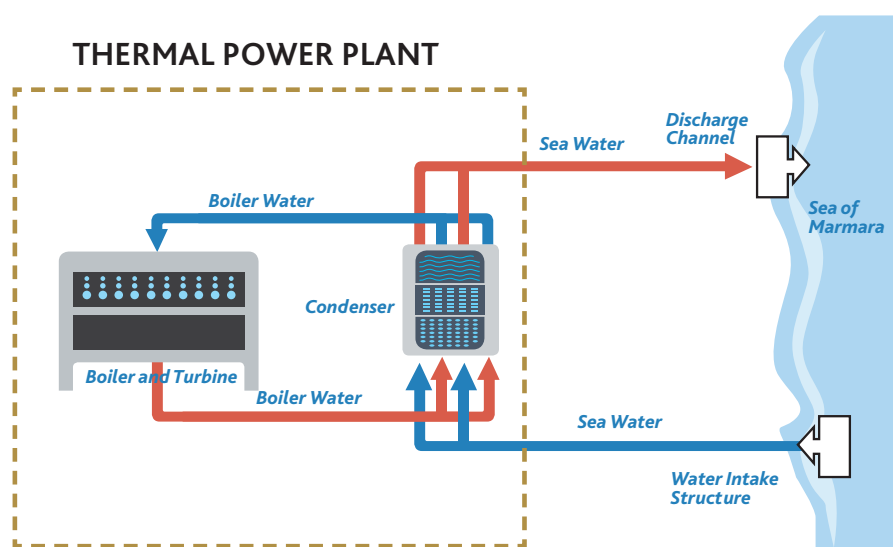


## Sustainable Water Management Project'

Water is the most important natural resource used for the operation of our facilities as well as the source of life. Water is used in steel production, cooling steel and bringing it to the required quality standards. Water is also used for cooling machine equipment used in operation. In energy production, water is one of the most basic resources. The energy released as a result of combustion turns the boiler water into hot steam, and electrical energy is generated by moving the steam to the turbine and through it to the generator.

The daily water requirement is approximately 30,000 m<sup>3</sup> when İÇDAŞ Değirmencik Integrated Plant and Bekirli Power Plant are operated at full capacity. The use of water at this density gives water an important environmental dimension both in terms of Water Resource Conservation and energy management. For this purpose, we implemented the 2007 İÇDAŞ Sustainable Water Management Project. Our work continues regularly in order to implement the project effectively by monitoring many parameters from a technical and financial point of view.

In this project; we aimed to completely end the use of ground water, which is a finite source, and to supply all of the enterprise's freshwater needs from the sea, which is an infinite source, to generate electricity from the cooling water discharged to the sea and establish a fish farm in the discharge water.



## Plant for Extraction of Freshwater from the Sea

Obtaining fresh water from sea water by reverse osmosis method is the first stage of the application carried out in three stages. In 2006, we aimed to meet all the fresh water needs from the sea, which was 3,500 m<sup>3</sup>/day, but will be 7.000 m<sup>3</sup>/day in parallel with production, and to completely end the use of ground water by closing 32 wells. The total investment cost of the plant is about 3 million 650 thousand dollars. We made this investment decision in spite of the fact that the cost of fresh water per unit is higher than that of well water. In 2019, we add a 6,000 m<sup>3</sup> capacity plant in our Değirmencik integrated plant and produce 18,000 m<sup>3</sup> of fresh water per day. We have realized a project similar to this successful project at the Değirmencik Integrated Plant at the Bekirli Power Plant with a capacity of 12,000 m<sup>3</sup>/day. Thus, our facilities in Biga reached a capacity of 30,000 m<sup>3</sup>/day. With this activity, we have ensured the protection of groundwater, as well as the more efficient use of the same resources in the agricultural field. Another indirect positive effect is that the risk of salt-water wedge moving inland from fresh water is reduced.

## Fish Production In Cooling Water Discharge

The second part of the application we aimed to produce 100 thousand bream and perch fish per year by producing fish in the cooling water discharge used in the production lines. In addition to carrying out fish

production activities in cooling water discharge for the first time in our country with the application, we meet all the water needs of the plant, which is 180 m<sup>3</sup>/hour, from cooling water. An important goal of the project is to show that the impact of cooling water on the ecosystem is sustainable. What makes fish production in cooling water advantageous is that the cooling water temperature is in the appropriate ranges for fish development in all seasons and does not require any investment in water supply.

## Electric Power Generation From Cooling Water Discharge

HPP (Hydroelectric Power Plant) project constitutes the third stage of implementation. (Details of this project are included in the 'Energy Management' section of our report.)

## Waste Water Management and Water Quality Monitoring

After treating all the water we use in our İÇDAŞ steel plants, we recover and use it again. We also provide recovery by condensing the Steam we use for energy production. Cooling water is the only waste water that can be considered from the production process in our facilities. Since the cooling water drawn from the sea cools the process water without contact and no chemical pollution occurs, we are able to discharge this water back to the sea.

Apart from the cooling water in our Değirmencik integrated plant, we have 14 different points of domestic waste water and 1 point of vehicle washing waste water discharge, 2 different points of domestic waste water in our Bekirli Plant, 4 physical and 1 Chemical Waste Water Treatment Plant. All our discharge points are defined in our environmental permit and license system and document. While we remove domestic wastewater sludge with a sewage truck, we discharge vehicle wash-induced wastewater into the receiving medium after passing it through a physical treatment plant.

Our discharge point 'continuous Wastewater Monitoring System (SAIS)' is installed at 2 points in our Değirmencik integrated plant and 1 place in Bekirli Power Plant. In this way, we continuously monitor the temperature parameter as well as pH, dissolved oxygen, conductivity, temperature and flow values in cooling water discharge and share the results with the Ministry of Environment and urbanization every fifteen minutes. In 2018, we changed our sais cabins and updated our Software. By making an annual maintenance agreement, we ensure that our cabinets and software are up to date.

We have a waste water laboratory accredited by TURKAK and qualified by the Ministry of Environment and Urban Planning. İÇDAŞ Environmental Control Laboratory has world-class technical equipment to perform all the analysis parameters within the scope of the authority.

## Results and Achievements



**Environmental:** Instead of using fresh water, which is a limited resource, we use seawater, which is a sustainable resource in a more environmentally friendly way. Continuous Wastewater Monitoring System monitors the cooling water taken from the sea and discharges in accordance with the standards and does not have a negative impact on the ecosystem. This project is one of the investments made in the environment.



**Economic:** By discharging cooling water in accordance with the standards, we do not have a negative impact on both the ecosystem and on the people of the region.



**Corporate:** İÇDAŞ is one of the first founders of continuous Wastewater Monitoring System. Our corporate consciousness is our sensitivity to the environment. Therefore, we allocate large budgets to environmental impacts and environmental investments and implement the necessary practices.



**Social:** The environment and ecosystem are an issue that will affect everyone. With this system, we eliminate potential negative effects.



# Energy Management



“ İÇDAŞ’s energy efficiency investments and works conducted with the aim of conducting productions with environmental sensitivity and awareness are sufficient.”

The steel sector accounts for an average of 7.5% of Turkey’s total energy consumption. The share of the industry in energy consumption is about 22.9%. From an environmental point of view, the importance of efficiency to be achieved in energy production and consumption is very high. Production technologies used to ensure energy efficiency should be compatible with measures that increase energy security, and reducing emissions resulting from energy efficiency is also important for climate protection.

As in arc furnace steel plants, about 56% of the total energy needs of the arc furnace in İçdaş are electrical energy. Fossil fuels are largely used in electricity production in Turkey. 88% of the total energy needs of all of İÇDAŞ’s facilities are met by coal, 9% by electricity and 3% by natural gas.

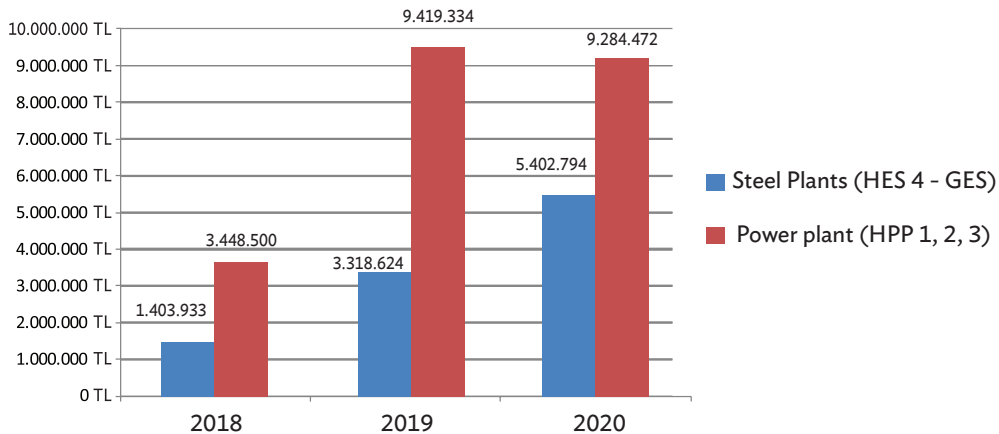
As part of the ISO 50001 energy management system, as İÇDAŞ, we implement our improvement action plans and monitor our performance in order to ensure maximum performance by means of measures to protect Energy, Natural Resources, reduce electricity and natural gas consumption in facilities.

We work with specialized international companies to recover the waste heat generated in our steel mill and rolling mill facilities. Products with high energy efficiency in plant lighting are our first choice.

Our energy efficiency studies have placed the philosophy of doing the same quality work/service by consuming less energy, creating less CO2 emissions, and therefore at less cost. Thanks to the energy we earn, we also contribute to reducing our country’s external dependence. We have the opportunity to be more competitive by following technological developments and constantly exploring best practice opportunities and reducing our costs.

## Economic Value of Energy Produced from Renewable Energy Sources and Consumed in the Plant

Facility Name	2018	2019	2020
Steel Plants (HPP 4-SPP)	1.403.933 ₺	3.318.624 ₺	5.402.794 ₺
Power plant (HPP 1-2-3)	3.448.500 ₺	9.419.334 ₺	9.284.472 ₺
<b>Total</b>	<b>4.852.433 ₺</b>	<b>12.737.958 ₺</b>	<b>14.687.472 ₺</b>



## Electric Power Generation From Cooling Water Discharge

We started work in 2008 to install hydraulic turbines on the cooling water discharge line, which is in the third phase of the Sustainable Water Management Project. We commissioned the facilities in 2009 to produce electrical energy from seawater. In 2011, with an investment of 15 million USD, we commissioned 4 hydroelectric power plants with an installed capacity of 6 thousand kilowatts, which we installed at the cooling water discharge points of the No. 2 steel plant and thermal power plant.

In our steel plant, we use non-contact seawater cooling systems for cooling products and machines, and in our thermal power plant for cooling steam. We discharge the seawater that cools the process water back into the sea. Due to land conditions, the annual energy spent on pressing water into a thermal power plant at an altitude of 30 meters and a steel plant at an altitude of 50 meters is about 110 million kilowatts.

Thanks to HPP, we get both economic, social and environmental gains as a result of recovering 25% of this energy. In 2020, we used 25.43 million kilowatt hours of electricity produced in hes in our steel and energy facilities to provide an economic value of TRY 13.16 million for our company.

Considering that the average annual electricity consumption per person in Turkey is 3,400 kilowatt hours, instead of drawing as much energy as 7,512 people will consume per year from the grid, we produce and use it in our own structure without creating emissions and providing efficiency conditions.



## Emission Management

All emission points in our facilities operate in accordance with national limits and the best techniques available internationally. Emission is one of the most important environmental parameters in the operation of İÇDAŞ's energy and steel production facilities. Best Techniques Available is our operation reference. There are a total of 10 stations with a continuous emission measurement systems in our facilities. We also monitor national limit levels in 10 stations and report to the ministry.

In addition to emissions measurements made in chimneys, we have been continuously conducting and reporting dust emission measurements that must be made once every two years and at two points in accordance with the legislation at eight stations established at the plant borders since 2006.

The dust retention efficiency of the fume extraction system, dust collection system and bag filters in the steel production and lime plant is 99.99% for dust particles above one micron.



“ İÇDAŞ's efforts on tackling the climate change is sufficient.”

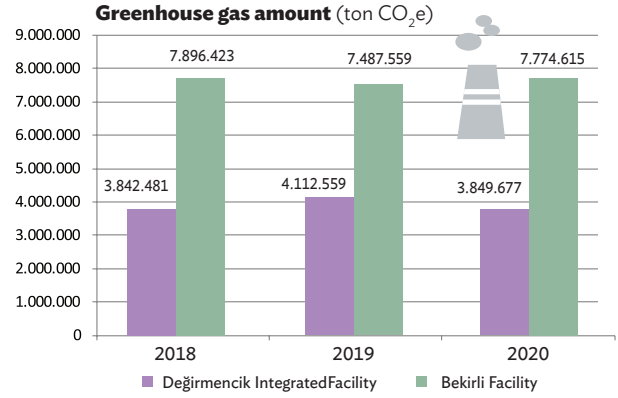
## Greenhouse Gas Effect (Monitoring Of Carbon Emissions)

According to the report issued by U.N. Environment Report, it is speculated that the average temperatures will rise by 1.4 °C ile 5.3 °C in 21st century and sea levels will rise up to 8-88 cm as a result of melting ice and irreversible changes will occur in the physical structure of the world. In 2010, we realized another environmental first in Turkey and became a steel plant that calculated the carbon footprint caused by steel production. As a result of the calculation of the carbon footprint and the work carried out in the field of sustainability, we received a sustainable steel certificate from the British company CARES in 2011.



December October 2012 the greenhouse gas amount for 2011 was audited by Bureau Veritas and certified in December 2012. We have created a carbon management infrastructure for calculating, reporting and managing greenhouse gas emissions. In the period 2012-2014, we also made our greenhouse gas calculations in accordance with ISO 14064-1. As of 2015, we are making our calculations within the scope of legislation. Our calculations for 2020 have been verified by the company authorized by the Ministry and have been shared with the ministry through the Integrated Environment Data System.

Calculations Made Within The Scope Of Legal Legislation			
	Greenhouse Gas Amount (tons CO <sub>2</sub> e)		
Facility Name	2018	2019	2020
Değirmencik Integrated-Facility	3.842.481	4.112.559	3.849.677
Bekirli Facility	7.896.423	7.487.003	7.774.615

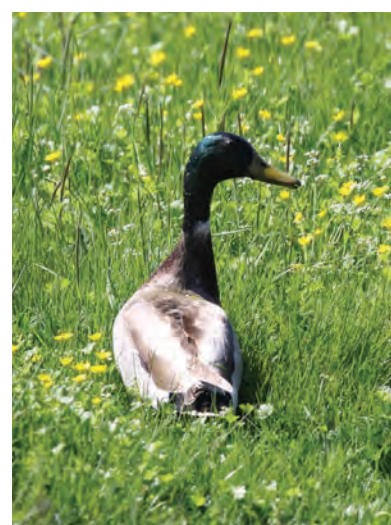
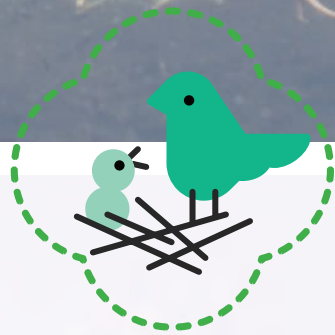
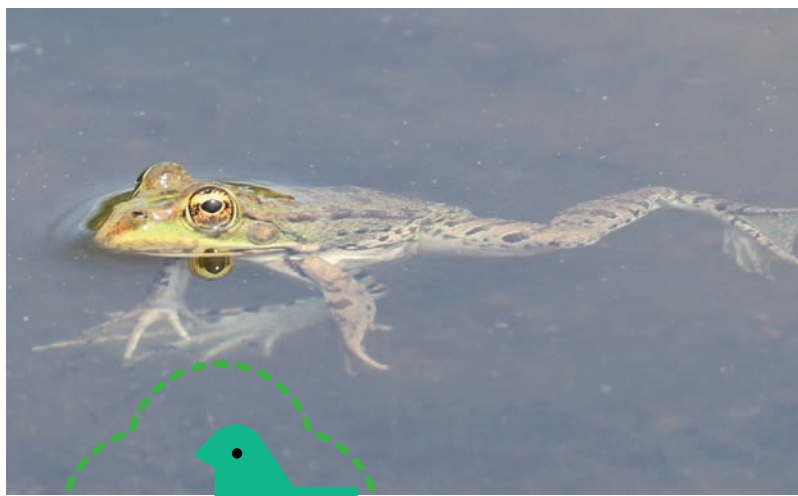
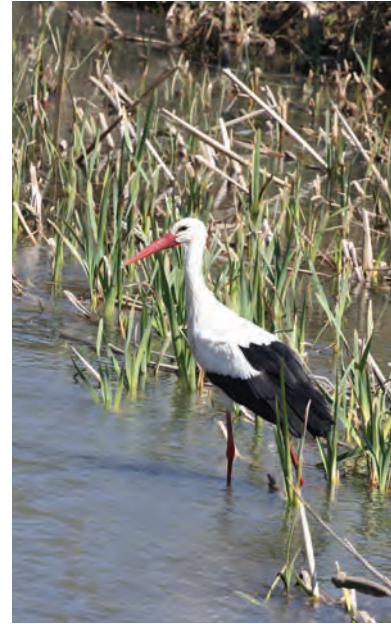


## Air Quality Monitoring with the Continuous Emission Measurement System (SEÖS)

In January 2014, we completed the systems we installed in Değirmencik and Bekirli facilities with a budget of 121 thousand 445 TL within the scope of the communiqué on continuous emission measurement systems. We established the infrastructure of the system in 2007 in order to monitor the emissions from the plant chimneys by the Ministry of Environment and Urban Planning. Although it is not an obligation on the publication of this data at that time, our steel plants and thermal power plants with continuous emission measurement devices measures the instantaneous emission values in our chimney and we live broadcast the chimney's camera image for 24 hours on our corporate Web page ([www.icdas.com.tr](http://www.icdas.com.tr)) based on the principle of transparency. We continue to manage our initiative, which started voluntarily with this system, today under legal obligation.



Bekirli Thermal Power Plant





# Biodiversity Conservation



“ İÇDAŞ's works regarding the conservation of natural life and biodiversity in its fields of operation are sufficient.”

The needs of clean water and air, fertile soil, foods and other requirements of people have to be met so that people could sustain their lives in their environment. In 2013, our systematic work on biodiversity monitoring began by employing a biologist as an internist, identifying and photographing plant and animal species in and around the facility. We have created the first living inventory by recording species in the woodlands and freshwater ecosystems around the facility.

We conduct our first studies in terrestrial, aquatic and marine ecosystems around our facilities. We continue our weekly field trips continuously, and the fact that our facilities are located in both the marine-coastal ecosystem and the forest ecosystem increases our responsibility to nature by two-fold.

Biodiversity studies in 2020 were continued within the scope of marine ecosystem, terrestrial ecosystem, ornithological observation and wildlife monitoring studies. It has also been found that there are no endemic species present in our region.

We are carrying out İÇDAŞ Biodiversity Project in order to get to know the diversity of living things in the domain of our facilities better, to start projects that protect them, to increase the diversity of living things here and to make the ecosystem stronger. Every year, we publish our biodiversity report prepared with this information on our website and share it with our stakeholders. With this report, we have been awarded the ISO Environmental Friendly Award, a first in our sector.

## İÇDAŞ Biga WPP Ornithological and Wildlife Monitoring Project

Wind turbines are the important alternative power source for a sustainable ecosystem and cheap energy supply but the studies show that they might cause death of the birds by a predator effect in the region where the wind turbines are installed. Although it has the least proportion of total bird deaths, wind power plants have the most negative impact potential on migratory birds. In addition, habitat losses that will occur during the construction phase can affect wildlife. Since İÇDAŞ Biga WPP (wind power plant) site is on the bird migration route, it was decided by the Ministry of Forestry and Water Affairs to monitor Ornithological and wildlife for two years with the start of construction. Within the scope of the project carried out in the 2015-2017 period with a budget of 262 thousand TL, the impact of the power plant on bird migrations will be observed and the turbines that may pose a danger during migration will be stopped if necessary.

Between 1 March to 1 November 2020 Ornithological observations were made and reported by a biologist employed in İÇDAŞ. These dates cover the spring, autumn migration periods and the breeding period.

As a result of ornithological observations, it was found that birds were more stable during the autumn migration period than during the spring migration period. During the study regarding the monitoring of wildlife and bat impact assessment, a scientific report on the impact of the project on bat species and the measures to be taken was prepared by conducting a monitoring study on bat species, population, breedinghousing - wandering zones located/not located in and around the Biga İÇDAŞ WPP. In this study, 9 new bat species entered our list.

Also photographed by SAD-AFAG, the Otter is another new mammal species that has made our list. As a result of these studies, a total of 10 new mammal species were added to our list. We have also included the categories of these species in our biodiversity report according to the European red list prepared by the IUCN (International Union for the protection of wildlife and Natural Resources).

In 2020, our biologist photographed migratory mobility in the field and scanned the carcass. These studies were recorded in daily observation forms.

## Artificial Reef and Biodiversity Support Project

Çanakkale province has 8% of the Turkish coast with a coastal length of 671 kilometers. It features two islands rich in fishing areas with coastlines totalling to 137 km (Gökçeada and Bozcaada), The Dardanelles, which is 62 km in length and significant with regard to the migration routes of fish is a part of the Saros Bay, which is of great importance regarding fishing resources. In addition, the fact that one of the points of origin to international waters in the Aegean Sea is in Çanakkale makes the province one of the most important fishing centers in Turkey.

More than a thousand coastal fishing boats and about ten seine boats operate in the region. About a hundred trawlers and many seine boats from the Marmara and Black Sea, and, in addition to these, close to a hundred boats come to the waters of the Dardanelles to do bottom net fishing in the summer.

We started the project by making a protocol with 18 Mart University in June 2013, based on the idea that artificial reef units that will be created in these regions will support professional and amateur fishermen.

### Aim of the project;

- ✔ Supporting local fisheries including professional, amateur, small scale and industrial fisheries
- ✔ Contribute to the conservation and development of marine biodiversity
- ✔ To support the increase of living beings by providing suitable environments for living beings in the sea in the region
- ✔ Creating a feeding and conservation area for some species
- ✔ Preventing illegal fishing activities.

In the scope of this protocol, the Faculty of Marine Science and Technology conducted dives in and around our port, making the first underwater determinations related to existing biodiversity. After this project, as part of a project called “Fishing in Çanakkale Will Breathe Through Increasing Biodiversity” prepared by surrounding villages, dives were performed in 17 regions in Çanakkale and artificial reef areas were identified.

A total of three regions, including one region in Değirmencik Village and two regions in Bekirli village, were found to be suitable for Artificial Reef Studies. Based on the feasibility report published in March 2014, we decided to implement the artificial reef project. With the completion of the permit processes, we aimed to put 2 thousand reefs to sea and started implementing the project in October 2014. We allocated a total budget of 750 thousand TL for the project completed in July 2015.

In 2019, the artificial reef areas displayed by our divers showed that our project was moving in a positive direction. Fish and other marine creatures have been observed heading towards the reefs and there has been an increase in the number of species.

## TÜBİTAK MAM Biga Peninsula Environmental Monitoring Project

At the suggestion of our Project Environmental Management Unit, we aimed to monitor the effectiveness of the measures we took to protect the environment in our Thermal Power Plant, which was built in 2009, and to provide scientific data to stakeholders on this issue, monitoring the ecosystem in the region one year before the plant was commissioned.

The project, which started on July 1, 2010, is one of the largest environmental monitoring projects in

our country in terms of its scope and content. It includes an area of 40 thousand km<sup>2</sup> and all our facilities in the region, from the sea of Marmara to the Gulf of Edremit, where our facility is located in the center. We chose TÜBİTAK MAM (Turkish Scientific and Technological Research Institution Marmara Research Center) to carry out the project with the understanding that having the project conducted by a public institution would ensure impartiality and reliability, and because the scope of the work was very wide. As İÇDAŞ, we provide the funding for the project, which has a total cost of TRY 895 thousand for five years.

We expanded the scope of the project launched to monitor emissions and we gave the project its final form with interviews conducted with various experts of TÜBİTAK MAM. We have started monitoring air, soil, surface fresh water, seawater, groundwater and stormwater quality, plants, water and emission discharges in the facility, and noise to ensure a comprehensive ecosystem monitoring.

As part of the project, monitoring stations are located in the region from the shores of the Marmara Sea of the Biga Peninsula to the foothills of Kaz Mountain. TÜBİTAK MAM staff regularly visit the stations every month and take all samples in about 3-4 days and continue monitoring work. The results of the analysis are reported by TÜBİTAK MAM with 6-month periods and presented to us. We also provide a copy of these reports to the Ministry of Environment and Urban Planning.

In 2016, air quality modeling, which was initially created 6 years ago, was updated. According to this model, 10 observation stations were established on the borders of Lapseki and Biga district. At these stations, environmental parameters are monitored in monthly periods. Monitoring work will continue for 60 months under the project and will end in 2021.

In March 27, 2017, we received the first interim report together with the 2nd Phase Agreement signed on June 8, 2016. In addition to previous years, periodic measurements at certain points were also started at WPP site 1, Karapurçek and Gürecealtı. In 2020, 2 reports were published, covering 6 months. The reports once again confirmed that the Environmental Quality of our facilities in the region is protected.

## Results and Achievements



**Environmental:** With this project, we will ensure that the ecosystem is secured. With the completion of thousands of analyses on air, soil and water quality in Biga Peninsula, very important data will be obtained. There will be a large-scale study covering the entire region on how environmental parameters in the ecology of the region will oscillate over time and the causes of these oscillations. This study is as closely related to the people of the region as to the plants, animals and the abiotic system, which are other elements of the ecosystem in the region.



**Economic:** Although the project does not make a direct financial contribution to our company, we believe that being a company that is environmentally sensitive and in accordance with the sustainable development model will be the preferred reason for stakeholders.



**Corporate:** Having the ecosystem in the region by monitored by independent public institutions not only shows the self-confidence of our business, but also increases the confidence of our stakeholders in our facility in the region.



**Social:** We comprehensively monitor the habitat of a population of about 500 thousand people and ensure that residents of the region are not exposed to a negative environmental impact caused by industrial activity. In other regions where industrial facilities are located, the project is revised and implemented according to the special conditions of that region. Together with the project, both TÜBİTAK MAM and the technical staff of our company involved in the project have the opportunity to gain many new experiences.



# Agriculture and Animal Husbandry Activities



“İÇDAŞ’s efforts on the sustainable agricultural production and durable agriculture applications is sufficient.”

Agriculture, animal husbandry and industry are the main sources of livelihood of the people of the region. Because of the rapid increase in industrial investment in the region, growers engaged in agriculture and animal husbandry developed a skeptical view of the industry. The triggering element for İÇDAŞ’s start of agriculture and animal husbandry operations is to show the people of the region that the proper industrial development does not have negative effects on agriculture and animal husbandry.

We manage our activities with agricultural engineers and technicians, veterinarians and specialist beekeeper personnel under Animal Husbandry (2007), Fish Farm (2008), Beekeeping (2010), Ovine Husbandry, (2011) and Agricultural Operations (2007). We consume more than 80% of our products in the facility, with different proportions in each product.

Despite fact that it is outside our main field of activity, we pay attention to agriculture and animal husbandry practices and increase our investments in these areas every year because of the positive economic, social and environmental impacts that they create. Our stakeholders who are positively affected by our activities include animal breeders, farmers, agricultural equipment and chemical fertilizer sellers, seed sellers and agricultural laboratories in the region.

The lack of qualified personnel was the biggest challenge we faced in our work in this area, as in all areas, and we managed to overcome this with internal training. We have been able to positively address the concerns of the people living in the area by opening the doors of our business to them and allowing them to visit our facilities.

## Animal husbandry, Beekeeping and Ovine Breeding

**Operation Place** : Değirmencik-Bekirli villages / Biga district

**Animals raised** : Fish, bee, veal, sheep, chicken, goose, turkey, duck

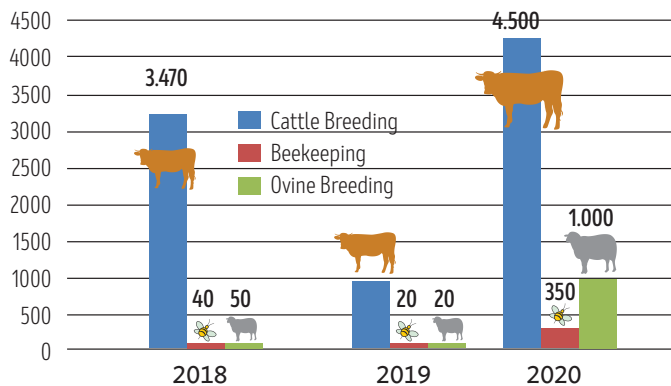
**Products** : Fish, honeycomb honey, strained honey, pollen, carcass meat, eggs

**External stakeholders who support or receive support for the implementation in order to benefit from support at the national level and exchange technical information:** Biga District Directorate of Food, Agriculture and Livestock, Biga Red Meat Association, Çanakkale Beekeepers Association



**Animal Husbandry Investments (TRY 1,000)**

	2018	2019	2020
Cattle Breeding	3.470	924	4.500
Beekeeping	40	20	350
Ovine	50	20	1.000



## Agricultural Practices

**Operation Place :** Değirmencik- Biga

**Products :** Pepper, tomato, apple, melon, watermelon, cabbage, lettuce, eggplant, molasses, grapes, jam, tomato paste

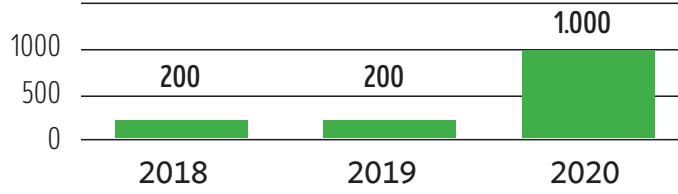
**External stakeholders who support or receive support for the implementation in order to benefit from support at the national level and exchange technical information:**

Directorate of Food, Agriculture and Livestock of Çanakkale Province and Biga District, Local and National Fertilizer companies



### Agricultural Practices Investments

	2018	2019	2020
(1.000 TL)	200	200	1.000



## Results and Achievements



**Environmental:** We have enriched the biodiversity in the region.



**Economic:** We have increased the financial resources transferred to the region through the supply of raw materials from regional growers. We brought exemplary gardens to the area.



**Corporate:** We have improved the reputation of our company in public and society.



**Social:** We have provided employment to the people of the region and provided exemplary facilities to the region.



Seed Bank

## İÇDAŞ Established a Seed Bank in Çanakkale

As İÇDAŞ, we strive to maintain the best work in every field in which we operate. We started our work in 2018 to establish a high-tech equipped seed bank in order to protect our national seeds. The most important factor in starting the study was that a quarter of the world's plants are in danger of extinction within the next 50 years. We established Turkey's third seed bank after Ankara and İzmir in Çanakkale in 2019. With this investment, we aim to crown thousands of acres of agricultural land with a seed bank and to save our national agriculture from dependence on foreign countries by securing our seeds.



Turkey is currently a gene center for at least 100 types of products that humanity uses. As well as being the center of origin of these species genetically, it was also home to civilizations where they were first cultured. During the excavations in Göbekli Tepe in Şanlıurfa, it was determined that wheat was cultured about 14 thousand years ago, and the history of agriculture was pushed back two thousand years.

Local genotypes with tens of thousands of different genetic structures in dozens of culture types, especially wheat, barley, rye, oats, lentils, chickpeas, peas, have been grown in Anatolia for thousands of years. On the other hand, due to its proximity to ancient cultural centers such as the Caucasus, Caspian Sea, Egypt, the local genotype wealth of Anatolia has increased many times.

Although Turkey is the center of origin of many cultivated plants, the geography in which they were first cultured, the fact that they begin to lose their domestic varieties against foreign varieties causes a very serious genetic erosion. It is a necessity for the public and private sectors to prevent this and to protect genetic values. Local varieties that have adapted to these climate and soil conditions for centuries must be protected. The tradition of using technological products brought about by manufacturing with the philosophy of high efficiency and quality is rapidly consuming genetic resources that we can call century-old sycamores. However, Turkey's wealth in terms of genetic resources is still very strong despite all these developments.

In addition to the wealth of genetic resources, Turkey also has strong experience in the past in terms of seed breeding and development. The first steps regarding seed production were taken with the establishment of the Seed Breeding Station in Eskişehir in 1925. The first work at the seed breeding station began with the breeding of bread wheat. Eskişehir, Konya, Ankara and Sivas provinces were scanned, promising local lines were collected and good ones were selected and a variety was registered for the first time. This seed variety has provided significant yield increases in the provinces where it is distributed. These seed varieties have also entered the world literature, and have even been described as a "Turkish miracle" by foreign scientists.

Within the scope of characterizing and conserving local resources that originate in Anatolia, many other products introduced to Anatolian agriculture later on such as corn, beans, melons, tomatoes, peppers, sesame, sunflower, big millet, sugar, millet also feature significant genetic differences, and genetic resources should be protected for these products as well. Conservation of Genetic Resources is also important in terms of the formation of biological factors that may cause harmful and disease in the climate and soil in the future.

Within the scope of the project, the botanic, genetic, agricultural and technological properties of local genotypes of products that originate in Anatolia will be examined in field conditions and lab conditions, and the ones that differ will be taken into long-term cold storages for conservation after they are slackened and uniformity is established. At the same time, seed renewals will be carried out at certain intervals.

Studies will be conducted separately in groups of self-fertilized species, foreign fertilized species, cereals, industrial plants, legumes, vegetables. Materials to be used in the studies will be supplied directly from growers, especially research institutes and universities. At the same time, the research will be supported by universities and research organizations.




















The goal of the project is to collect and preserve 40 thousand different genotypes. Russian scientist Vavilov collected 25 thousand different wheat and barley genotypes from Anatolia and the Mediterranean Basin alone. Therefore, the probability of achieving the goal is very high.

## Our Performance Indicators

### Economical Performance Indicators

Economic Value Created and Distributed (TRY 1,000)	2020	
	İÇDAŞ STEEL ENERGY	İÇDAŞ ELECTRICITY
Economic Value Created (Revenues)	13.370.287.002	3.255.829.603
Economic Value Distributed to Stakeholders		
Operating Expenses	11.806.069.339	2.271.770.896
Employee benefits	549.959.142	77.585.089
State benefit	391.907.684	262.696.666
Community benefits	14.149.649	4.024.492
Non-distributed economic value (profit)	608.201.188	639.752.458



### Social Performance Indicators

 EMPLOYEES			
By Gender	2018	2019	2020
 Male	5.671 (97,34%)	5.133 (97,23%)	5393 (97,29%)
 Female	155 (2,66%)	146 (2,77%)	150 (2,71%)
TOTAL	5.826	5.279	5543
 By Type Of Employment			
	2018	2019	2020
 White Collar - Female	111	104	106
 White Collar - Male	572	524	549
 Blue Collar - Female	44	42	44
 Blue Collar - Male	5.099	4.609	4844
TOTAL	5.826	5.279	5543
 By Contract Type			
	2018	2019	2020
 Full-time employee - Female	155	146	150
 Full-time employee - Male	5.671	5.133	5393
 Part-time employee - Female	0	0	0
 Part-time employee - Male	0	0	0
TOTAL	5826	5.279	5543
 By Location			
	2018	2019	2020
İstanbul (Office, Ambarlı Liman, İkitelli)  Female	81	77	82
İstanbul (Office, Ambarlı Liman, İkitelli)  Male	307	280	285
Değirmecik -  Female	59	55	56

Değirmecik - Male	4.417	3.999	4242
Bekirli - Female	15	14	12
Bekirli - Male	743	679	697
Anatolia Employee - Female	0	0	0
Anatolia Employee - Male	151	117	115
Ships - Female	0	0	0
Ships - Male	53	58	54
<b>TOTAL</b>	<b>5.826</b>	<b>5.279</b>	<b>5543</b>

## EMPLOYEE TRANSFER

By Gender	2018 (%)	2019 (%)	2020 (%)
Female - New recruit	49 (4,5%)	4 (2,0%)	9 (1,6%)
Female - Left work	36 (5,8%)	14 (1,9%)	6 (1,8%)
Male - New recruit	1.031 (95,5%)	193 (98,0%)	563 (98,2%)
Male - Left work	584 (94,2%)	728 (98,1%)	324 (98,2%)
<b>TOTAL - Hired</b>	<b>1080</b>	<b>197</b>	<b>572</b>
<b>TOTAL - Left Work</b>	<b>620</b>	<b>742</b>	<b>330</b>
By Location	2018 (%)	2019 (%)	2020 (%)
Bekirli - Hired	84 (7,8%)	0 (0,0%)	27 (2,5%)
Bekirli - Left Work	92 (14,8%)	30 (4,8%)	17 (2,7%)
Değirmencik - Hired	806 (74,6%)	29 (2,7%)	379 (35,1%)
Değirmencik - Left Work	348 (56,1%)	479 (77,3%)	152 (24,5%)
İstanbul - Hired	42 (3,9%)	10 (0,9%)	15 (1,4%)
İstanbul - Left Work	37 (6%)	45 (7,3%)	6 (1,0%)
Anatolia - Hired	10 (0,9%)	3 (0,3%)	3 (0,3%)
Anatolia - Left Work	7 (1,1%)	36 (5,8%)	4 (0,6%)
Ships - Hired	138 (12,8%)	155 (14,4%)	148 (13,7%)
Ships - Left Work	136 (21,9%)	152 (24,5%)	151 (24,4%)
By Age	2018 (%)	2019 (%)	2020 (%)
30 and under - Hired	439 (40,65%)	57 (5,28%)	332 (30,74%)
30 and under - Left Work	217 (35%)	250 (40,32%)	102 (16,45%)
Ages 30 - 50 - Hired	523 (48,43%)	98 (9,07%)	201 (18,61%)
Ages 30 - 50 - Left Work	313 (50,48%)	378 (60,97%)	158 (25,48%)
50 and over - Hired	118 (10,93%)	42 (3,89%)	39 (3,61%)
50 and over - Left Work	90 (14,52%)	114 (18,39%)	70 (11,29%)
Employee Turnover	2018	2019	2020
<b>Employee Turnover Rate</b>	<b>8,31%</b>	<b>11,30%</b>	<b>3,26%</b>

<b>ALL TRAININGS</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
 All employees (hours /employee)	32,70	32,98	24,06
<b>OHS TRAININGS</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
 All employees (hours /employee)	19,92	23,03	12,07

<b>Trainings by Subject (Employee x hours)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>Occupational Health and Safety</b>	83.680	86.397	48.292
<b>Orientation</b>	26.216	10.496	11.488
<b>Professional</b>	22.892	9.233	20.183
<b>Single Point</b>	11.208	7.000	6.312
<b>Information Security</b>	3.252	4.332	2.581
<b>Quality</b>	4.573	4.576	2.189
<b>Personal Development</b>	1.416	2.704	480
<b>Energy Management System</b>	5,336	4.053	2.571
<b>Environment and other</b>	5.003	4.921	2.133
<b>Total</b>	163.576	133.712	96.229

<b>OCCUPATIONAL HEALTH AND SAFETY</b>	<b>2018</b>		<b>2019</b>		<b>2020</b>	
<b>Region: Turkey (İÇDAŞ employees)</b>	Female	Male	Female	Male	Female	Male
<b>Accident Frequency Rate**</b>	0	20,94	0	19,95	7,94	23,70
<b>Occupational Illness Rate</b>	0	0	0	0	0	0
<b>Number of Accidents Resulting In Fatalities</b>	0	0	0	0	0	2
<b>Lost Day Rate</b>	0	0,32	0	0,42	0,01	0,40
<b>Absentee Rate</b>	1,06	1,41	4,13	1,30	4,57	2,76

Only casualty numbers related to sub-employers are tracked. Other data is not available.

\*\*Accident Frequency: Number of accidents during one million business hours KS = total number of accidents/ (total number of employees X300 days x 7, 5 hours) - (total lost days x7, 5 hours) x 1,000,000 1 fatal accident=7,500 lost days

Accidents at the first aid level are included in the accident frequency rate. Fatal accidents are included in the accident frequency rate. The Lost day rate is calculated by calendar day. The count of lost days begins the day after the accident.

# Environmental Performance Indicators



## ⚡ Energy Data

### Secondary Energy Purchased and Consumed From Non-renewable Energy Sources - Electricity

Facility Name	Unit	2018	2019	2020
Steel Plants	kWh	2.221.835.879	1.739.001.637	1.954.170.155,15
	GJ	7.998.609	6.260.405	7.035.012,56
Power Plant-Değirmencik	kWh	279.996.274	327.331.464	300.017.126,00
	GJ	1.007.987	1.178.393	1.080.061,65
Shipyard	kWh	2.829.394	2.287.834	1.978.989,03
	GJ	10.186	8.236	7.124,36
Auxiliary Facilities*	kWh	204.346.847	170.393.447	198.516.464,68
	GJ	735.649	613.416	714.659,27
Power Plant-Bekirli	kWh	452.892.083	415.313.722	426.465.203,00
	GJ	1.630.411	1.495.129	1.535.274,73

\* Auxiliary Facilities: All facilities exclusive to Değirmencik; excluding steel, energy and shipyards.

### Energy Generated from Renewable Energy Sources and Consumed in the Plant - Electricity

Facility Name	Unit	2018	2019	2020
Steel Plants (HPP4)	kWh	6.239.000	6.243.000	7.491.600
	GJ	22.460	22.474	26.969,76
Power Plant (HPP1-2-3)	kWh	16.804.000	19.304.248	17.944.235
	GJ	60.494	69.495	64.599,25
Steel Plants (SPP)	kWh	602.147	558.281	2.950.460
	Gj	2.168	2.009	10.621,66

### Non-renewable Direct Energy Sources

Facility Name	Year	Coal (GJ)	Natural Gas (GJ)
Steel Plants	2018	2.471.711,9	3.929.478
	2019	1.732.527,6	3.103.419
	2020	1.788.161,5	3.627.028
Power Plant - Değirmencik	2018	25.755.960,1	17.518,6
	2019	31.428.411,5	10.557,9
	2020	28.195.077,0	23.412,5
Değirmencik Other Plants (Lime Plant)	2018	577.303,2	99.915,6
	2019	581.603,2	102.955,3
	2020	888.759	104.318,6
Power Plant - Bekirli	2018	82.938.052,8	76.806,5
	2019	76.261.287,4	110.032,9
	2020	75.133.417,7	133.580,6

### Non-renewable Direct Energy Sources

Facility Name	Year	Diesel (GJ)	Gasoline (GJ)
All Plants	2018	573.437,2	784,3
	2019	503.749,4	624,7
	2020	533.158,1	794,1



## WATER AND WASTEWATER MANAGEMENT



Amount Of Water Drawn From The Sea To Obtain Fresh Water	Year	m <sup>3</sup> /year
Steel Plants	2018	1.902.764
	2019	2.526.883
	2020	1.594.000
Değirmencik Power Plant	2018	543.167
	2019	430.348
	2020	462.587
Shipyard and Auxiliary Facilities	2018	537.561
	2019	460.216
	2020	523.838
Bekirli Power Plant	2018	2.337.402
	2019	3.007.282
	2020	3.032.125

Amount of Reclaimed And Reused Water*	Year	m <sup>3</sup> /year
Steel Plants	2018	364.335.778
	2019	360.587.655
	2020	301.199.245
Shipyard and Auxiliary Facilities	2018	22.032.000
	2019	22.880.000
	2020	21.119.200
Değirmencik Power Plant	2018	62.592
	2019	52.993
	2020	53.947
Bekirli Power Plant	2018	135.031
	2019	141.150
	2020	139.047



\* Reused water is the total amount of water that is reused for the same or different purpose after treatment, or used for another purpose without treatment. Examples of this are the repeated use of cooling water in steel plants after treatment or the use of waste water in ash humidification. For reuse, each cycle is included in the account.

Total Waste Water Discharge (m <sup>3</sup> /year)	Year	Waste Water Discharge*	Cooling Water
Değirmencik Integrated Facility	2018	256.838	450.772.080
	2019	229.828	420.924.935
	2020	238.041	393.275.031
Bekirli Power Plant	2018	217,447	1.027.048.680
	2019	208.981	1.028.581.315
	2020	179.141	1.029.017.314

\* Total discharges of domestic, chemical and physical waste water treatment plants are included in the waste water discharge. Waste water is discharged into the sea through the channel by physical treatment from four separate points. Waste water discharge amounts were calculated depending on the capacity of the package treatment plants. Since the number of treatments does not change, the annual difference in our amount of waste water in practice is negligible.



## WASTE DATA

### Amount and management of waste from facilities

Facility Name		2020				
Değirmencik	Unit	Reclaimed	%	Disposed	%	TOTAL
Hazardous Waste	Tonne	64.001,47	7%	0,15	0,00002%	64.001,63
Non-Hazardous Waste	Tonne	496.325,30	52,45%	385.916,25	41%	882.241,54
Total Waste	Tonne	560.327	59,22%	385.916	40,78%	946.243
Bekirli	Unit	Reclaimed	%	Disposed	%	TOTAL
Hazardous Waste	Tonne	31,341	0,01%	0,072	0,00003%	31
Non-Hazardous Waste	Tonne	215.627	82,50%	45.713	17,49%	261.340
Total Waste	Tonne	215.658	83%	45.713	17%	261.371

\* Waste temporarily stocked in the facility is not included.

### Amount and Management of Ship Waste Accepted to the Facilities

Facility Name		2020				
Değirmencik	Unit	Reclaimed	%	Disposed	%	TOTAL
Hazardous Waste (bilge water, Slach, waste oil)	m <sup>3</sup> /year	826,0	100%	0	0%	826,0
Non-Hazardous Waste (Domestic solid and liquid waste)	m <sup>3</sup> /year	0	0%	1.593,2	100%	1.593,2
Bekirli	Unit	Reclaimed	%	Disposed	%	TOTAL
Hazardous Waste (bilge water, Slach, waste oil)	m <sup>3</sup> /year	159,65	100%	0	0%	160
Non-Hazardous Waste (Domestic solid and liquid waste)	m <sup>3</sup> /year	0	0%	81,68	100%	82

# APPENDICES

## Corporate Memberships

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### Association of Shipowners

**BİSİAD** - Biga Association of Industrialists and Businessmen

**BSTP** - Biga Civil Society

**BSTP** - Biga Civil

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### Society Platform CARES

**CEN** - Sustainability Committee

Participation on behalf of Turkey in the meetings of the European Standards Committee on construction and prestressed Steels (CEN)

**ÇİB** - Steel Exporters Association

**ÇTSO** - Çanakkale Chamber of Commerce and Industry

**DTD** - Railway Transport Association

**ENSAR** Foundation

**EUROFER** - Eurofer The European Steel Association

**GAN TÜRKİYE** - Global on-the-Job Training Network

**GİSBİR** - Turkish Shipbuilding Industry Association

**IREPAS** - International Rebar Manufacturers and Exporters Association

**İKV** - Economic Development Foundation

**İAV** - Economic Research Foundation

**İMMİB** - Istanbul Mining and Metal exporters Association

**İTO** - Istanbul Chamber of Commerce

**KOSDER** - - Koster Shipowners and Operators Association

**MESS** - Union of Turkish Metal Industrialists

**MÜSİAD** - Independent Industrialists and Businessmen

**TÇÜD** - Turkish Steel Producers Association

**TÇÜD** - - Technical Quality Committee

**TMD** - Turkish Miners Association

**TURMEPA** - Marine Clean Association

**TSE** - Turkish Standards Institute

**İMEAK**-Chamber of Shipping

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## Integrated Management Systems

Management System Standards Documents	Current Facilities	Date
ISO 17025 Laboratory Quality Management System	Environmental Control Laboratory, Fatigue	2012
ISO 14064-1: 2006 Greenhouse Gas Emission Verification Standard	Steel Plants, Power Plants, Shipyard, Lime Plant, Port	2012
ISO 50001 2011 Energy Orientation System	Steel Plants, Power Plants, Shipyard, Lime Plant, Port	2011
ISO 14001: 2015 Environmental Management System	Steel Plants, Power Plants, Shipyard, Lime Plant, Port	2005
OHSAS 18001: 2007 Occupational Health and Safety	Steel Plants, Power Plants, Shipyard, Lime Plant, Port	2005
ISO 9001 2015 Quality Management System	Steel Plants, Power Plants, Shipyard, Lime Plant, Port	1994
CARES BS 8902: 2009 Sustainability Management System	Steel Plants	2011
CARES BS EN 9001: 2008 Quality Management System	Steel Plants	1998
CARES BRE BES 6001 Responsible Sourcing for Construction Product	Steel Plants	2016
CARES Production Conformity Certificate for Nuclear Applications and Mega Projects	Steel Plants	2017
ISO 27001 Information Security Management System	Steel Plants Non-production Units and Power Plants	2014
Shipyard Facility Safety Certificate	Shipyard	2014

EC Compliance Certificates	Current Facilities	Date
Fly Ash Production - TS EN 450-1 : 2012	İÇDAŞ Elektrik Enerjisi Üretim ve Yatırım A.Ş.	2012
Aggregate Production - EN 12620:2002+A1:2008 and EN 13242:2002+A1: 2007	Mortar Limestone Aggregate Plants	2012
Aggregate Production - EN 12620:2002+A1: 2008	Çakırlı Aggregate Plants	2018
Steel Slag Aggregate Production - En 13043:2004 EN 13242+A1:2007	Steel Slag (Artificial Aggregate) Plants	2012
Steel Slag Aggregate production -TS 706 EN 12620:2003+A1:2009	Steel Slag (Artificial Aggregate) Plants	2015
KÇK G Certificate Of Conformity Ready Mixed Concrete Production - TS EN 206/TS 13515	Bekirli Ready Mixed Concrete Plant	2017

## IFC Sustainability Standards Compliance Index

### IFC Environmental and Social Sustainability Performance Standards



Performance standards prepared by the International Finance Corporation (IFC) to ensure that environmental-social risks and impacts defined for all phases, starting from the investment of the project and including its operation, are managed via the Environmental and Social Management System to be established.

Our IFC Standards Compliance Index for our strategic issues, which we detailed in our report, is included in the table below.

IFC	IFC Performance Standards	Location In Our Report	Page
		<b>Environmental</b>	62
PS 1	Assessment and Management of Environmental and Social risks and Impacts	Emission Management	70
PS 3	Source Efficiency and Pollution Prevention	Energy Management	69
		Waste Management	63
PS 6	Biodiversity Conservation and Sustainability Management of Natural Resources	Water Management	66
		Biodiversity conservation	73
		<b>Social Performance</b>	40
PS 2	Work and Working Conditions	Occupational health and Safety	40
PS 4	Public Health, Safety and Security	Radiation Safety	42
PS 5	Land Expropriation and Forced Resettlement	Relations with the Local Community	46
PS 7	Indigenous Peoples		
PS 8	Cultural Heritage	Social Investments	48



## Human Rights

**Principle 1:** Business must support and respect the declared principles of international human rights..

**Principle 2:** Business must take all necessary measures to avoid complicity in human rights violations.

## Labour Standards

**Principle 3:** The business community should support the freedom of employees to unionize and negotiate collectively.

**Principle 4:** The business community should support the end of forced and forced labor practices.

**Principle 5:** The business community should support the end of child labor.

**Principle 6:** The business community should support an end to discrimination in recruitment and placement.

## Environment

**Principle 7:** Business should support precautionary approaches to environmental problems.

**Principle 8:** Business should take initiatives that encourage greater environmental responsibility.

**Principle 9:** Business should encourage the development and dissemination of environmentally friendly technologies.

## Anti-Corruption

**Principle 10:** Business must work against all forms of corruption, including bribery and racketeering.

## GRI CONTENT INDEX

GRI 101: ESSENTIAL 2016		
GRI 102: GENERAL NOTICES 2016		Place of the Description in the Report
<b>Corporate Profile</b>		
102-1	The name of the organization	End paper
102-2	Activities, brands, products and services	Page 12
102-3	Location of the organization's headquarters	İstanbul
102-4	Location/s where the organization's production centers are ocated	Çanakkale
102-5	Nature of ownership and legal structure	Joint Stock Company
102-6	Markets served	Page 15-16-17
102-7	Scale of the organization	Page 13
102-8	Information about employees and other employees	Page 44
102-9	Supply chain	Page 28-39
102-10	Changes to the organization and supply chain	Page 39
102-11	Principle of prudence	Page 19
102-12	External initiatives	BMKİS
102-13	Corporate memberships	Page 85
<b>Strategy</b>		
102-14	Declaration of the highest decision-making authority	Page 5
102-15	Key crops, risks and opportunities	Page 33
	Ethics and integrity	Page 18
102-16	Values, principles, standards and norms of behavior	Page 18
102-17	Mechanisms related to ethics	Page 18
<b>Governance</b>		
102-18	Management structure	Page 18
<b>Stakeholder Engagement</b>		
102-40	List of stakeholder groups	Page 20
102-41	Collective bargaining agreements	Page 46
102-42	Determination and selection of stakeholders	Page 20
102-43	Stakeholder engagement approach	Page 22-23
102-44	Key issues and priorities of stakeholders	Page 22
<b>Reporting</b>		
102-45	All institutions included in consolidated balance sheets or equivalent documents	Page 3
102-46	Defining report content and subject boundaries	Page 3
102-47	List of priority topics	Page 25
102-48	Recurring information	Ongoing projects
102-49	Changes in reporting	N/A
102-50	The reporting period	Page 3
102-51	History of the previous report	2019
102-52	Reporting cycle	Page 3
102-53	Contact information for questions about the report	Page 91
102-54	Compatibility option selected according to GRI	Page 3
102-55	GRI content index	Page 88
102-56	External assurance	N/A

<b>GRI 103 MANAGEMENT APPROACHES 2016</b>		Place of the Description in the Report
GRI 200	<b>GRI 200 ECONOMIC STANDARDS SERIES</b>	
	GRI 201 Ekonomik Performans, 2016	
	GRI 201 Economic Performance, 2016	Page 18
	103-2 Management Approaches and Attachments	Page 33
GRI 300	<b>GRI 300 ENVIRONMENTAL STANDARDS SERIES</b>	
	GRI 302 Energy, 2016	
	103-1 Priority issues and boundaries	Page 38
	103-2 Management Approaches and Attachments	Page 85
	GRI 303 Su, 2016	
	103-1 Priority issues and boundaries	Page 66
	103-2 Management Approaches and Attachments	Page 67
	GRI 304 Biodiversity, 2016	
	103-1 Priority issues and boundaries	Page 73
	103-2 Management Approaches and Attachments	Page 74
	GRI 305 Emissions, 2016	
	103-1 Priority issues and boundaries	Page 24
	103-2 Management Approaches and Attachments	Page 70
	GRI 306 Wastes, 2016	
	103-2 Management Approaches and Attachments	Page 25
	103-2 Management Approaches and Attachments	Page 63
GRI 400	<b>GRI 400 SOCIAL STANDARDS SERIES</b>	
	GRI 401 Employment, 2016	
	103-1 Priority issues and boundaries	Page 45
	103-2 Management Approaches and Attachments	Page 79
	GRI 403 Occupational Health and Safety, 2016	
	103-1 Priority issues and boundaries	Page 40
	103-2 Management Approaches and Attachments	Page 79
	GRI 404 Education and Training, 2016	
	103-1 Priority issues and boundaries	Page 43
	103-2 Management Approaches and Attachments	Page 79
	GRI 413 Local Communities, 2016	
	103-1 Priority issues and boundaries	Page 46
103-2 Management Approaches and Attachments	Page 79	

<b>GRI 200-300-400 SUBJECT SPECIFIC STANDARDS 2016</b>		Place of the Description in the Report
<b>GRI 200 ECONOMIC STANDARDS SERIES</b>		
GRI 201 Economic Performance, 2016		
<b>201-1</b>	Economic value created and distributed	Page 13
<b>201-4</b>	Financial support from the state	Page 79
<b>GRI 300 ENVIRONMENTAL STANDARDS SERIES</b>		
GRI 302 Energy, 2016		
<b>302-1</b>	Energy consumed in-house	Page 69
GRI 303 Water, 2016		
<b>303-1</b>	Total water extraction by source	Page 66
<b>303-3</b>	Amount of recycled and reused water	Page 66
GRI 304 Biodiversity, 2016		
<b>304-1</b>	Places of activity in areas with high biodiversity value	Page 73-75
GRI 305 Emissions, 2016		
<b>305-1</b>	Direct greenhouse gas (GHG) emissions (Scope 1)	Page 71
GRI 306 Wastes, 2016		
<b>306-2</b>	Waste by type and disposal method	Page 63
<b>GRI 400 SOCIAL STANDARDS SERIES</b>		
GRI 401 Employment, 2016		
<b>401-1</b>	Newly hired employees and employee turnover	Page 79
<b>401-2</b>	Ancillary rights not provided to temporary or part-time employees and provided to full-time employees	Page 80
GRI 403 Occupational Health and Safety, 2016		
<b>403-2</b>	Types and rates of injuries, occupational diseases, lost days, absenteeism and number of work-related deaths	Page 80
GRI 404 Education and Training, 2016		
<b>404-1</b>	Average annual training hours per employee	Page 43-44
GRI 413 Local Communities, 2016		
<b>413-1</b>	Operations involving local community engagement, impact analysis and development programs	Page 45-46

**Contact Information**

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