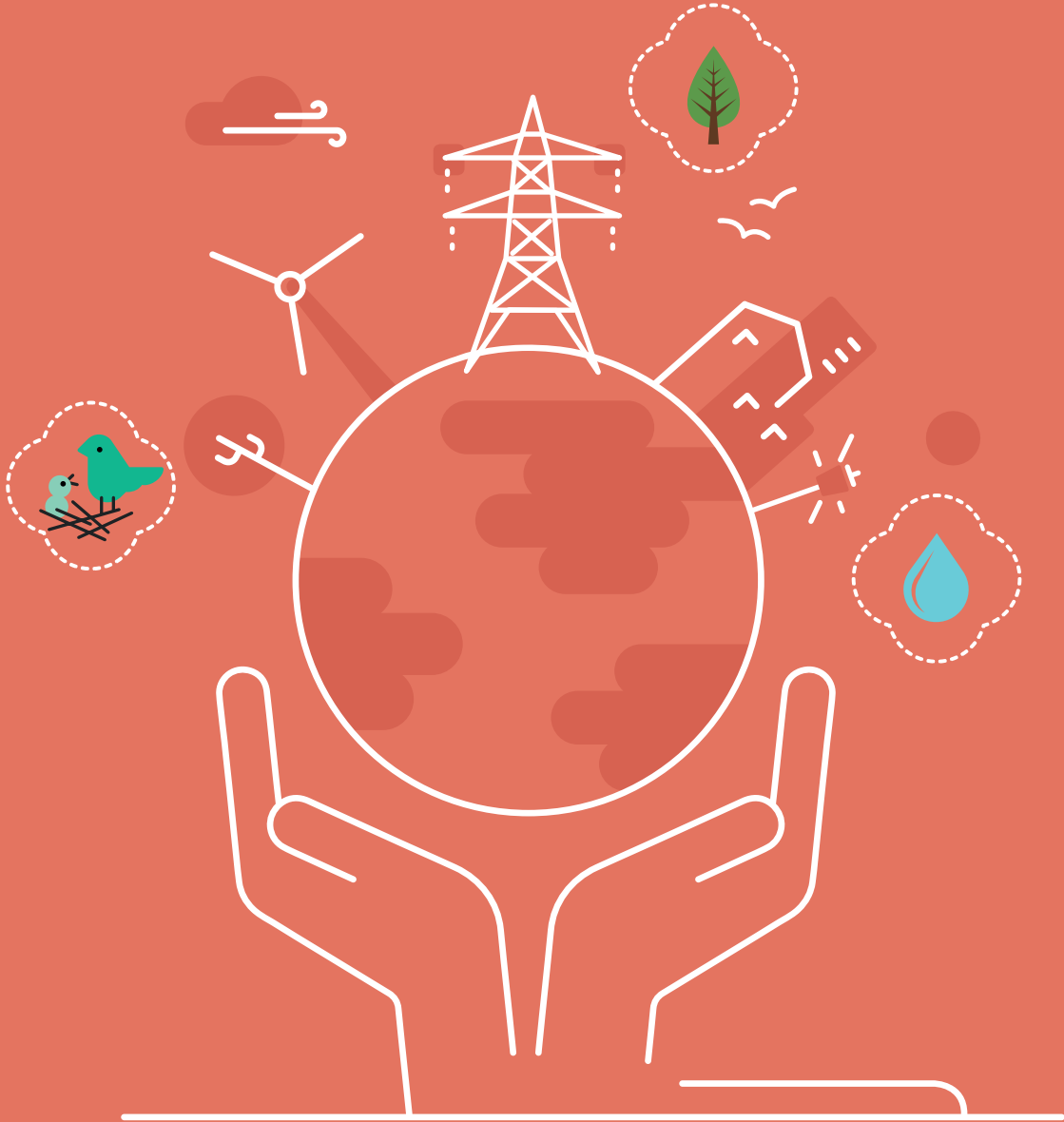


SUSTAINABILITY REPORT 2019



SUSTAINABILITY REPORT 2019





İÇDAŞ®



İÇDAŞ®



About Our Report

In our eighth Sustainability Report for 2019, 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.

Report Scope

In our work with our managers to determine strategic issues, we took into account steel and energy production, which is one of the primary and largest business lines of İÇDAŞ. The information in our report encompasses İÇDAŞ's operations at all of its facilities between 1 January 2019 and 31 December 2019, 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 2021, in which we aim to convey our sustainability in 2020.



Message to Our Shareholders

Dear Stakeholders,

We continue to convey to you our economic, social and environmental performance in 2019 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 8th largest producer of crude steel with 33.7 million tonnes produced in 2019. As İÇDAŞ, we realized 8.34% of Turkey's crude steel production at our Değirmencik Integrated Plant located in Biga, Çanakkale. In the energy sector, İÇDAŞ's production reached 4.32% of the total electricity produced by the private sector and the state throughout Turkey with 12.54 billion kWh in 2019.

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 5,63 billion dollars, of which approximately TRY 176,952 million is in 2019. Locals constitute 79% 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 2019 is approximately TRY 222 million. Our primary goal in waste management is to recover waste. Our recycling rate this year was 62% in Değirmencik and 61% in Bekirli.

Since 2007, we have been managing the water issue at İÇDAŞ Değirmencik Integrated Plant under the 'Sustainable Water Management Project'. In 2019, we reused 390 million m³ of water through the treatment process, while meeting all our water needs, including fresh water, from the sea. Environmental activities accounted for 83% of our operating and investment 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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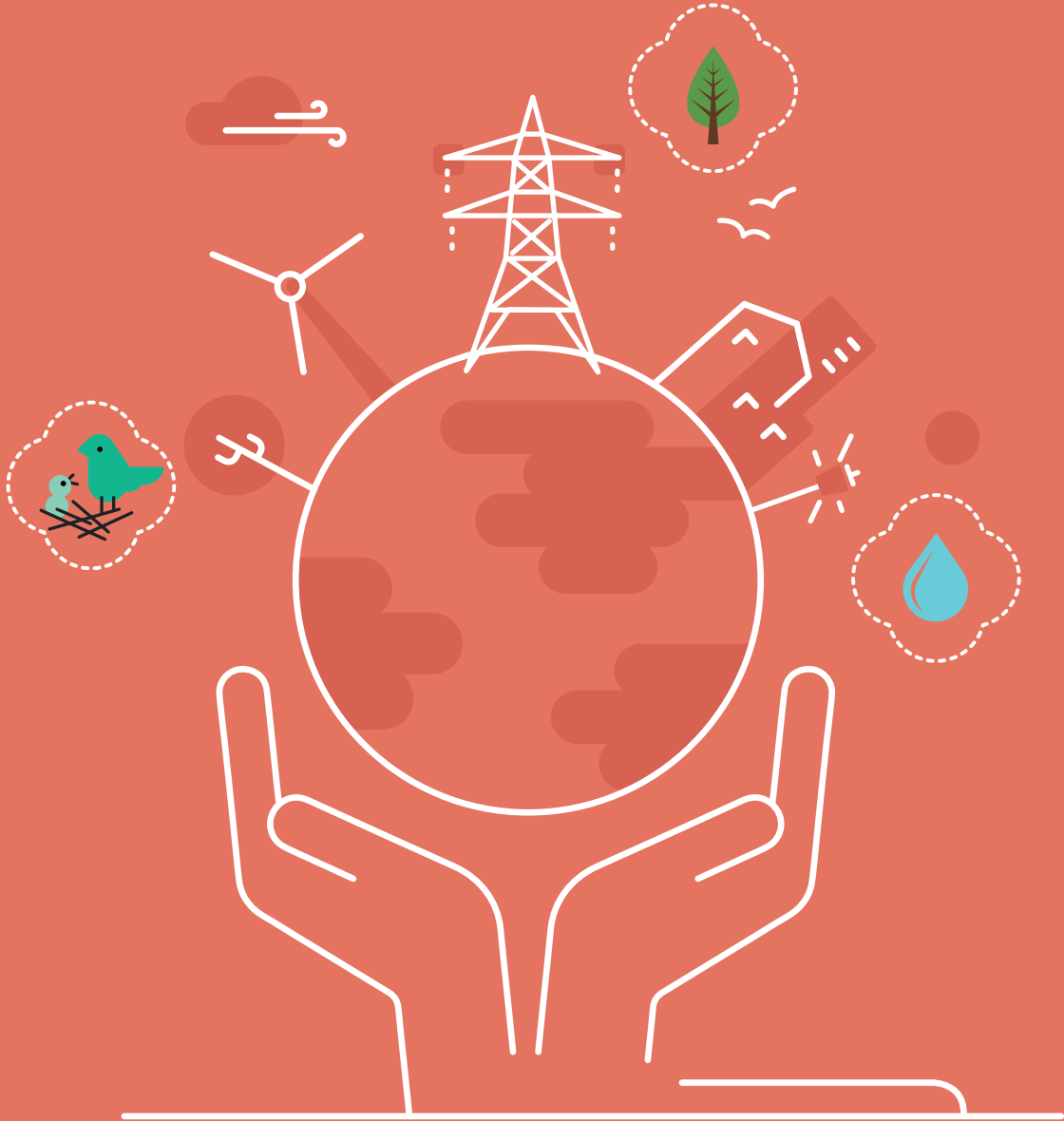
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İÇDAŞ®



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Corporate Profile

We are Turkey's leading producer of steel and rank among the largest private sector steel producers in the country with regard to our production capacity. We have been producing steel since 1970, always ranking among the top in the export rankings in our sector.

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, three-unit 405 mW thermal power plant, four HPP, one SPP, a shipyard, two piers, one dock, the largest private sector port facilities in Turkey with a daily loading capacity of 30.000 tons and offloading capacity of 60.000 tons. In addition, the construction of our Aksaz Shipyard (dry pool) project, which is the first of its kind to have the capacity to manufacture the first aircraft carrier in our country, was started.

In addition to the Değirmencik integrated plant, our two-unit thermal 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 and Ship Production



İÇDAŞ Elektrik Enerjisi Üretim ve Yatırım A.Ş.
Electricity Generation



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



ERAS Taşımacılık Taahhüt İnşaat ve Ticaret A.Ş.
Road Transportation



BİGAİR Havacılık ve Taşımacılık Sanayi ve Ticaret A.Ş.
Airway



İÇDAŞ Dış Ticaret A.Ş.
Agriculture and Livestock



İÇDAŞ Sigorta Aracılık Hizmetleri A.Ş.
Insurance



İÇYAPI İnşaat Taahhüt ve Ticaret A.Ş.
Construction



İÇE TANKER Deniz Taşımacılık Ltd. Şti.
Ship Management



Total Installed Capacity
1.706,85 MW



Crude Steel Production
2,81 Million Ton



Electricity Generation
12,92 Billion kWh




16th Highest Export Volume in Turkey
2nd Highest Export Volume in Steel Sector



Export Volume
908 Million USD



Consolidated Net Sales
TRY 12.935 Billion



Distribution of Net Sales
● 59,50% Steel
● 37% Energy ● 3,5% Other



Products

Steel billets, construction steel, wire rod and electrical energy produced in our steel 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.

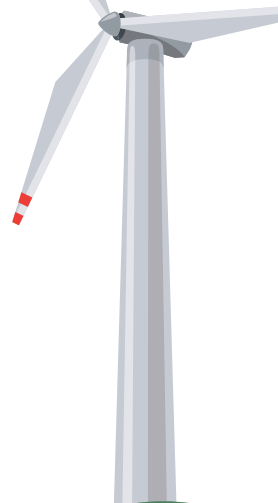
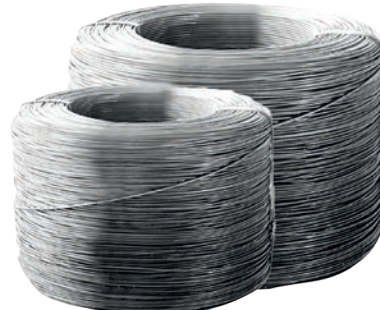
1 Steel billet is the starting point for rolling products such as construction steel, flat bar, section and wire rod. They are square - shaped, long and continuous casting semi-finished products with cross-sections ranging from 100 mm to 200 mm.

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 Electricity produced in our thermal, hydro, wind and solar power plants are delivered via the lines of Turkish Electricity Distribution Company (TEDAŞ) 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 By 2019, we have completed the production of 17 ships in our shipyard, including chemical tankers and dry cargo ships. In 2017, we launched 16,000 dwt İÇDAŞ-5 dry cargo ships with a budget of 12.3 million euros and added them to our fleet by launching them in 2019. We aim to grow our fleet by launching 7,500 DWT stainless steel chemical tankers in 2021, whose production was initiated in 2019





Facts and Figures of İÇDAŞ

Corporate Profile

Sustainability Profile

ECONOMIC



Consolidated Net Sales
TRY 12.935 Billion



Distribution of Net Sales
● 59,50 % Steel
● 37% Energy
● 3,5% Other



Export Volume
USD 908 Million
40 Number of Countries to Which We Export



16th Company with the Most Exports in Turkey
2nd Company with the Most Exports in the Steel Sector



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



Electricity Production
12,92 Billion kWh
(4.32% of total electricity produced in Turkey in 2019)

SOCIAL



Group Number of Workers
5.279



Rate of Local Employment
% 79



Our Social Investments
TRY 39,43 Million

Our Social Investments
● Sports 0.87%
● Education 0.40%
● Infrastructure 88.18%
● Cultural 10.54%

ENVIRONMENTAL



Environmental Operating Costs and Investments
TRY 222,67 Million

Distribution of Investments
● 82% Değirmencik Facility
● 18% Bekirli Facility



Raw Steel Production
2,81 Million Ton
(8.34% of total production in Turkey)

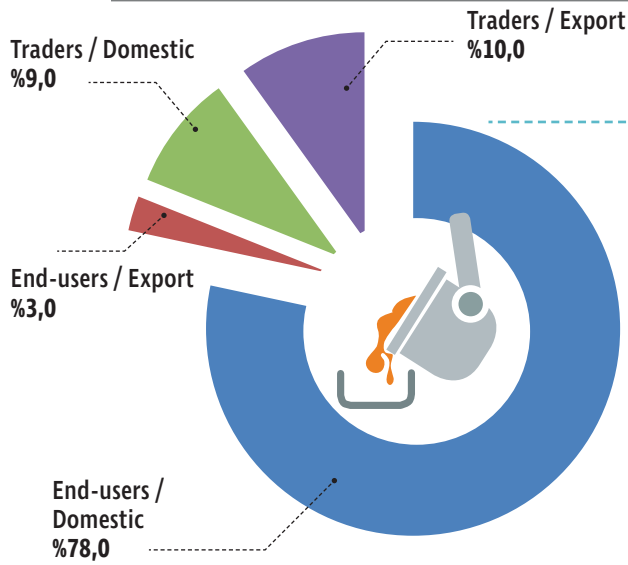
Daily Recycled Steel Scrap Capacity
15 Thousand Tonnes

(Rates regarding Turkey are based on 2019 TSPA data).





Customer Profile



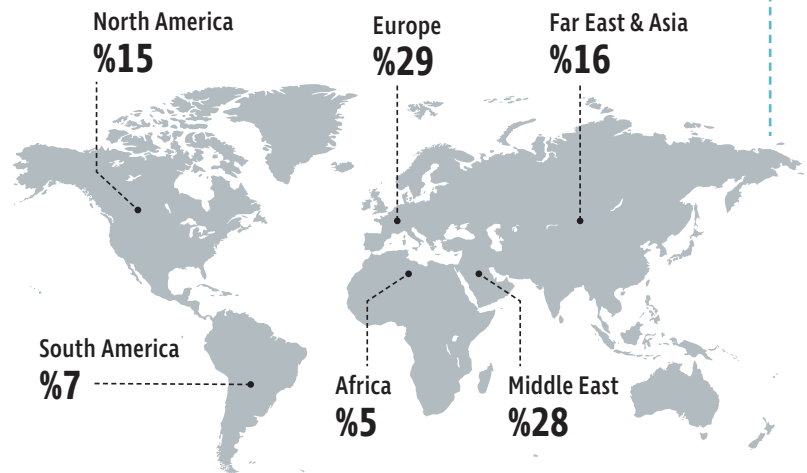
Steel Customers

Steel Customers	Number	Ratio
End-users / Domestic	608	78%
End-users / Export	21	3%
Traders / Domestic	70	9%
Traders / Export	77	10%
Total	776	100%

End users: Construction firms, straw manufacturers and wire manufacturers. Merchants: Distributors and intermediary firms.

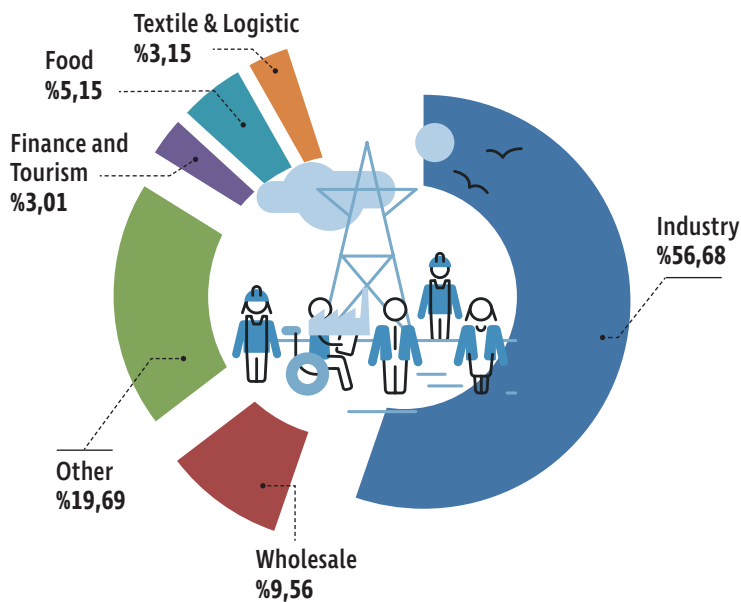
Steel Export Markets

Steel Export Markets	
Far East and Asia	%16
N. America	%15
S. America	%7
Africa	%5
Europe	%29
Middle East	%28



Electricity Customers

(By Consumption)



Electricity Customers

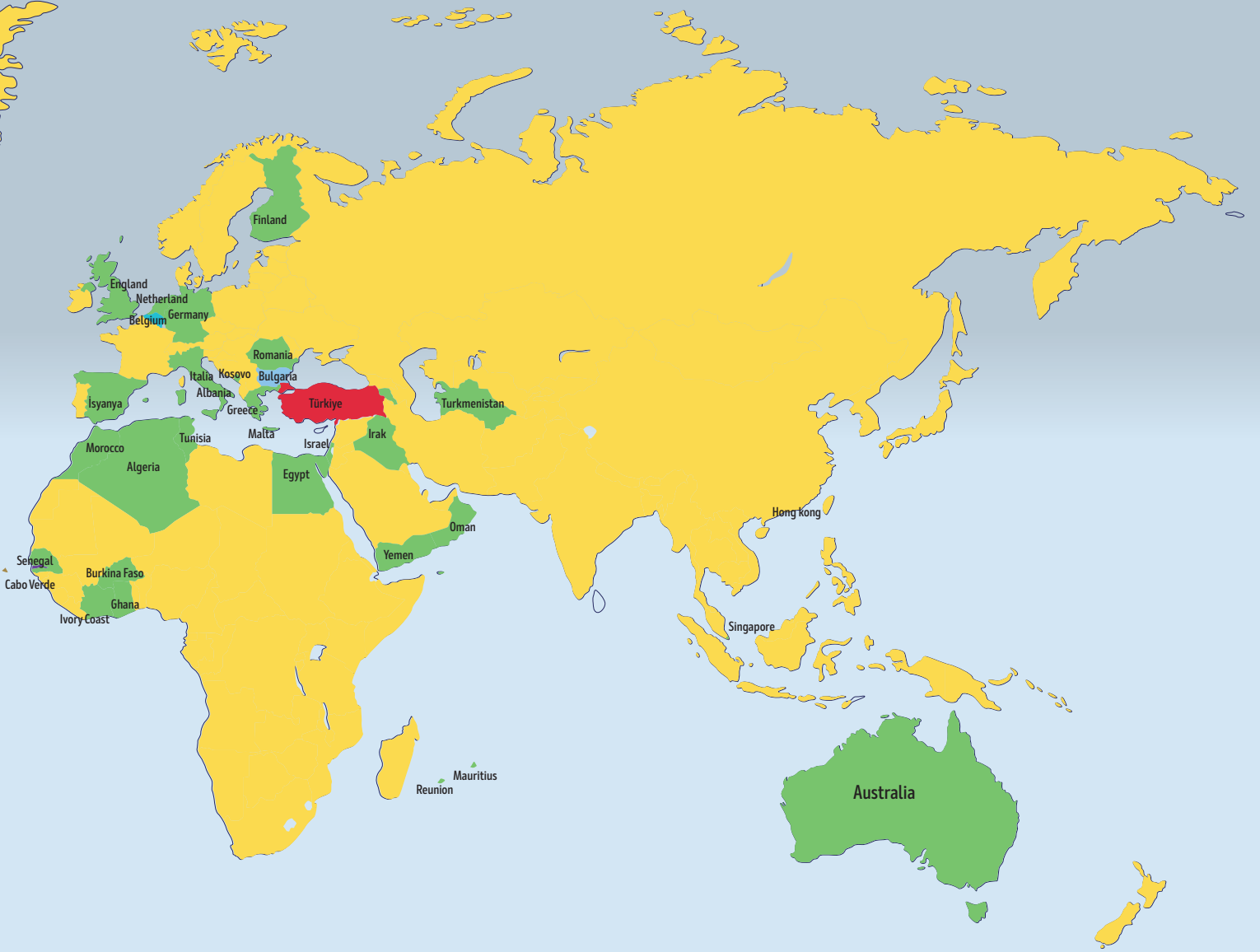
(By Consumption)

Industry	%56,68
Wholesale	%9,56
Other	%19,69
Finance and Tourism	%3,01
Food	%5,15
Textile & Logistic	%3,24

Steel Export to 40 Countries

- Israel
- Singapore
- Romania
- Canada
- Yemen
- Netherlands
- USA
- Hong Kong
- Germany
- Belgium
- Chile
- İtalia
- Morocco
- Brazil
- Peru
- Bulgaria
- Colombia
- Spain
- Algeria
- Senegal
- Mauritius
- England
- Finland
- Mexican
- Albania
- Ghana
- Ivory Coast
- Malta
- Irak
- Egypt
- Australia
- Haiti
- Kosovo
- Tunisia
- Burkina Faso
- Cabo Verde
- Turkmenistan
- Greece
- Reunion
- Oman







Strategy and Management

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

Among our employees who participated in the sustainability survey
97% say that...

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 of İÇDAŞ, a family company, are equally responsible for the environmental, social and economic performance of the company. 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. Our entire Board of Directors consists of family members. 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 system to ensure internal control by including sustainability risks. Having initiated them in 2018, we completed our SAP, HANA system works in 2019. Thanks to in-memory technology, we started using RAM instead of an hard disk and increased our processing speed significantly compared to before. As a result, we have a platform that works with high efficiency. 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. The main purpose of creating these rules and principles is to ensure employee safety and health, information security and business discipline, and to prevent situations and behaviors that are contrary to job security. The Disciplinary Committee or the relevant department directorates are responsible for the examination of complaints or cases.

Sustainability Management

As İÇDAŞ, we focus on the issues of environmental management, occupational safety and quality while realizing the goals determined to boost our sustainable production of steel and energy 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.



For Sustainable
Development
**GLOBAL
GOALS**





Stakeholder Engagement

Among our employees who participated in the sustainability survey
75% say...

At İÇDAŞ, communication platforms where the employees can share their ideas and suggestions with the board are sufficient.

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.

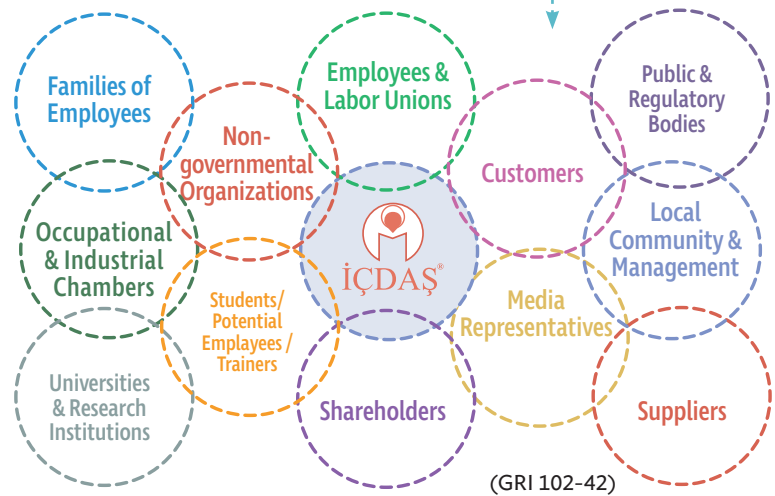
This year, we reviewed with our Sustainability Working Group our key stakeholders and strategic issues that we identified as a result of the sustainability identification survey that we had conducted in recent years with the participation of our senior managers and the consequent strategy workshop.

Key Stakeholders

We aim to develop our existing communication platforms during each reporting period and regularly listen to the ideas and demands of our stakeholders and evaluate the thoughts that are directly related to our business within the framework of sustainability. We believe that the returns we receive when setting our sustainability goals will help shape our goals.

Stakeholders

- Employees & Labor Unions
- Shareholders
- Customers
- Public & Regulatory Bodies
- Local Community & Management
- Media Representatives
- Suppliers
- Occupational & Industrial Chambers
- Non-governmental Organizations
- Families of Employees
- Universities & Research Institutions
- Students/ Potential Employees / Trainers



Communication Platforms

Stakeholders	Communication Platform	Frequency of Communication
Employees and Unions	İÇÖS	Continous
	Internet	Continous
	OHS Meeting	Monthly
	Notice boards	Continous
Shareholders	Board Meeting	Monthly
	Executive Board	Weekly
Customers	Call Center and Customer Portal	Continous
	Seminar-congress-fairs	A few times a year
	Mutual visits	Continous
	Internet	Continous
	Product information brochure	A few times a year
Public and Regulatory Institutions	Factory trip and information meeting	Once a year
	Face-to-face meetings	Indefinite
Local Community and Government	Face-to-face meetings	Several times a week
Members of the Media	Face-to-face meetings	Weekly
	Phone, email, 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
Non-Governmental Organizations	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	Continous
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

Topics	Employees and Labor Unions	Shareholders	Customers	Suppliers	Media	Local Communities and Management	Public & Regulatory Bodies
Economic Performance	*****	*****	***	****	**	***	***
Employment	*****	****	***	**	**	**	*
Health and Safety	*****	*****	***	**	****	****	****
Education and Training	*****	****	***	**	**	**	*
Local Communities	***	***	*	***	****	*****	****
Emissions	**	****	**	**	****	****	****
Global Climate Change	***	***	**	**	*****	****	****
Biodiversity	***	***	**	**	*****	****	****
Energy	**	***	**	*	****	****	***
Water	***	*****	***	*	**	*	***
Effluents and Waste	**	****	**	*	****	***	**

Our Collaborations for Sustainable Development Goals

Relevant SDG	Project Name	Cooperating NGO or Public Institution	Cooperation Start Date	Cooperation End Date
	Beekeeping, Beekeeping and Ovine Breeding	Biga District Directorate of Food, Agriculture and Livestock Biga Red Meat Association Çanakkale Beekeepers Association	2007	Continues
	İçdaş Agricultural Practices	Directorate of Food, Agriculture and Livestock of Çanakkale Province and Biga District	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	Turkish Atomic Energy Agency (TAEK)	Continuous	Continues
	Trainings from İÇDAŞ Employees	Biga Vocational High School	2013	Continues
 	Renewable Energy Generation with WPP	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	2011	Continues

Relevant SDG	Project Name	Cooperating NGO or Public Institution	Cooperation Start Date	Cooperation End Date
 	Renewable Energy Generation with SPP	The Department of Energy	2018	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)	2008	Continues
	Main Sponsorship of the Excavations in the Ancient City of Parion	Ministry of Culture and Tourism	2008	Continues
	Main Sponsorship of Apollon Smintheion Excavations	Ministry of Culture and Tourism	2011	Continues
	Main Sponsorship of the Troia Excavations	Ministry of Culture and Tourism	2015	Continues
	Main Sponsorship of Assos Excavations	Ministry of Culture and Tourism	2016	2021
	Main Sponsorship of Troas Excavations	Ministry of Culture and Tourism	2017	2028
	Maydos Kilisetepe 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 Monitoring	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 Project	TUBITAK Marmara Research Center	2010	Continues
 	Biodiversity Monitoring Around the Facility	İÇDAŞ	2013	Continues

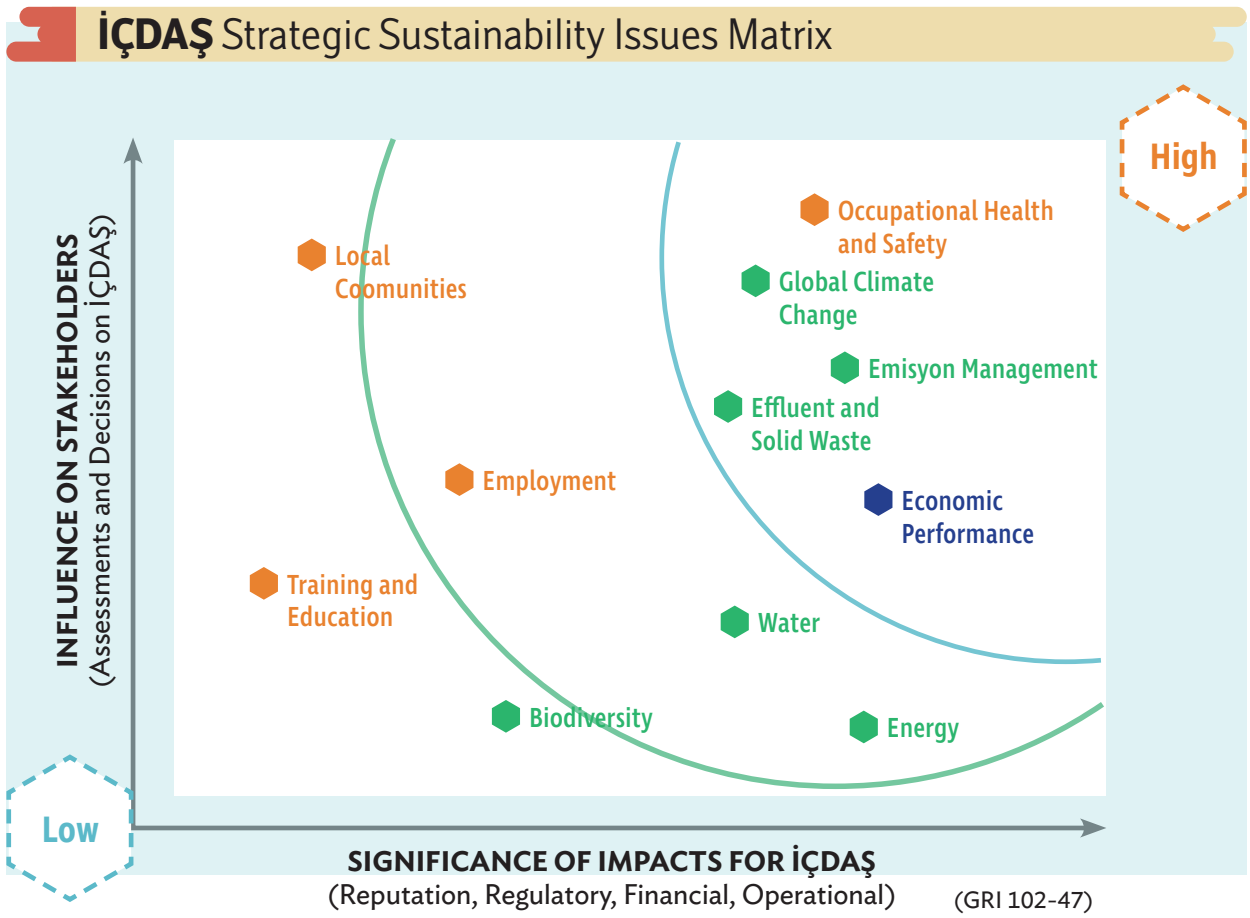
Our Strategic Sustainability Issues

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 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.



Priorities of Employees			
1	Occupational Health and Safety	8	Local Communities
2	Employment	9	Biodiversity
3	Economic Performance	10	Global Climate Change
4	Energy	11	Emissions
5	Training and Education		
6	Water		
7	Effluent and Solid Waste		

Boundaries of Strategic Issues

Material Topics	Topic Boundary		Limitations of Reporting	
	Internal	External	Internal	External
Economic Performance	Entirety of İÇDAŞ	M / D	No	M / D
Employment	Entirety of İÇDAŞ	M / D	No	M / D
Occupational Health and Safety	İÇDAŞ Değirmencik and Bekirli	Number of subcontractor accidents	No	We conduct checks in accordance with legal requirements.
Training and Education	Entirety of İÇDAŞ	M / D	No	M / D
Local Communities	İÇDAŞ Değirmencik and Bekirli	M / D	No	M / D
Emissions	İÇDAŞ Değirmencik and Bekirli	Contractor	No	Emissions controls are being carried out on subcontracted vehicles entering the facility.
Global Climate Change	Entirety of İÇDAŞ	The Whole Planet	No	A greenhouse gas report is being prepared in accordance with legal requirements.
Biodiversity	İÇDAŞ Değirmencik and Bekirli	Nearby lands adjacent to İÇDAŞ borders	No	M / D
Energy	İÇDAŞ Değirmencik and Bekirli	M / D	No	M / D
Water	İÇDAŞ Değirmencik and Bekirli	M / D	No	M / D
Liquid and Solid Wastes	İÇDAŞ Değirmencik and Bekirli	Contractor	No	All the rules applied to waste water and waste management apply in all the activities of subcontractors at İÇDAŞ fields.

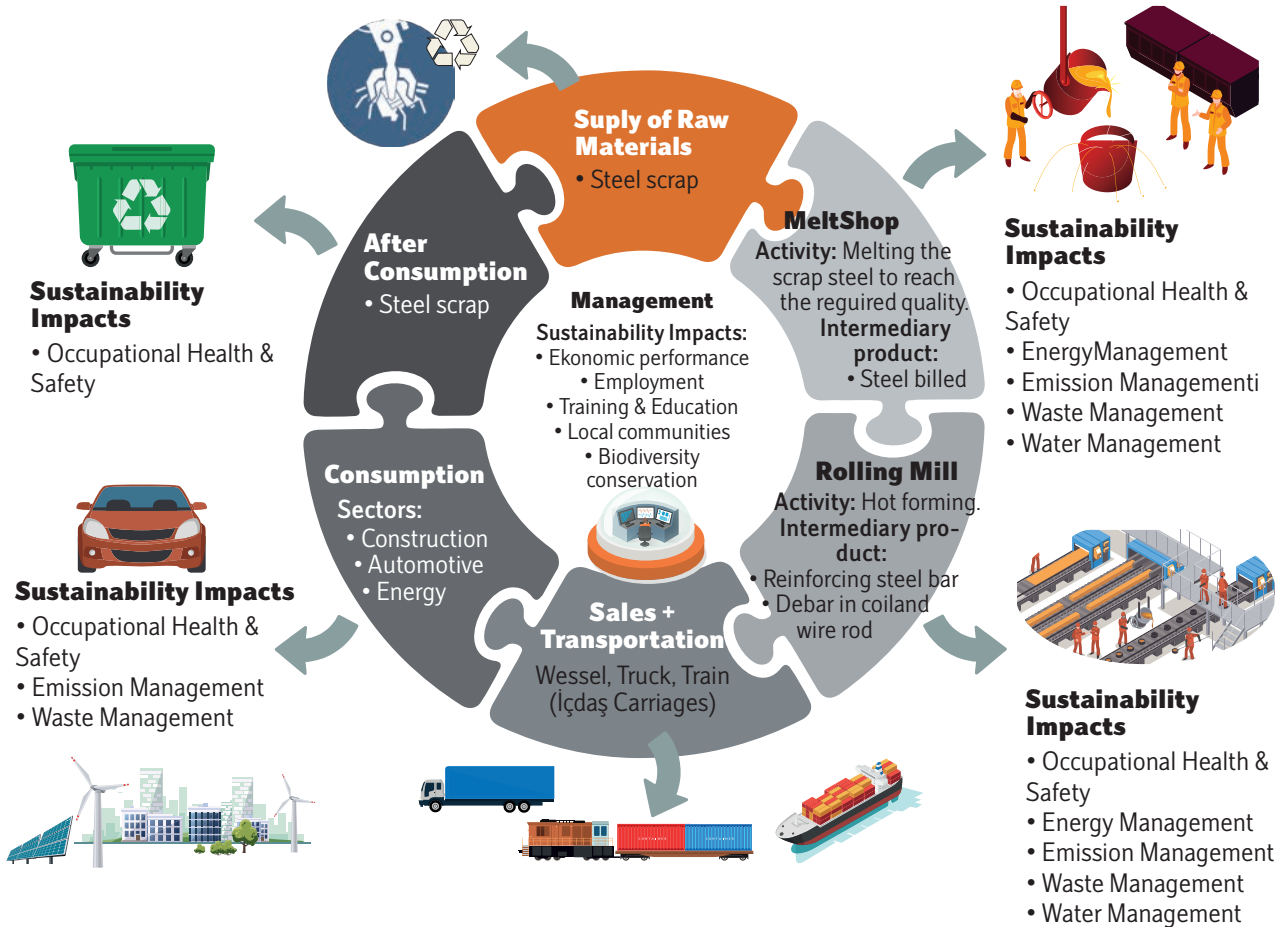
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Our Sustainability Impacts in the Value Chain

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.

İÇDAŞ Sustainability Impacts Along the Value Chain (Steel Production)





İÇDAŞ Sustainability Impacts Along the Value Chain (Energy Production)

Sustainability Impacts

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

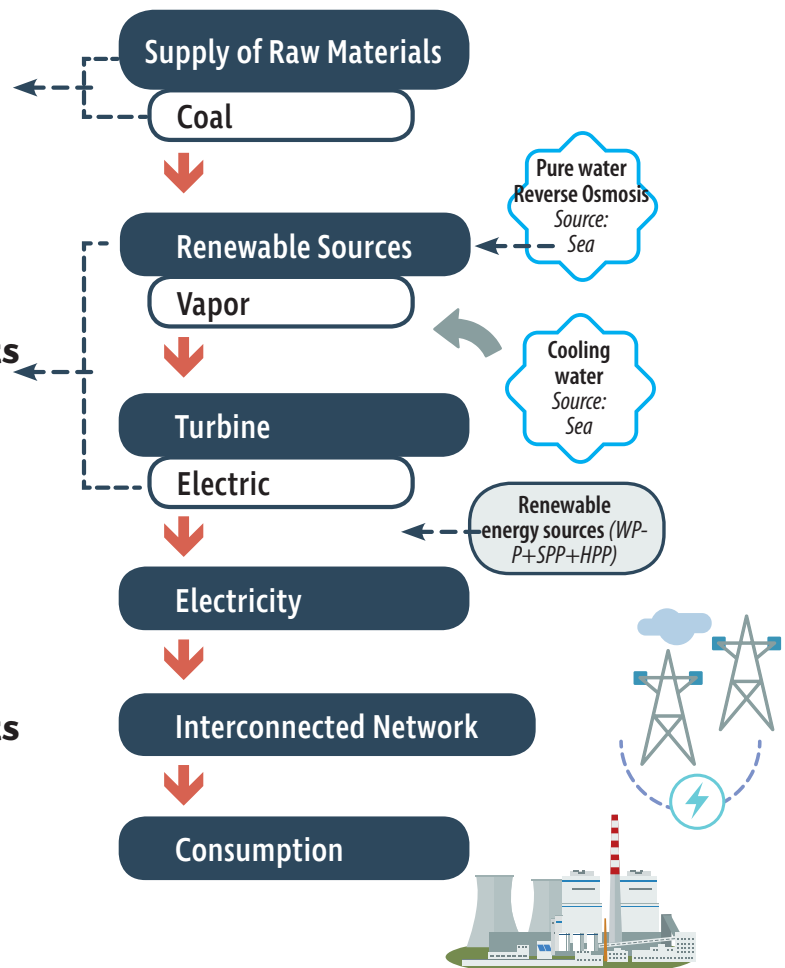
Sustainability Impacts

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

MANAGEMENT

Sustainability Impacts

- Economic Performance
- Employment
- Education
- Local Communities
- Biodiversity Conservation



Our Strategic Sustainability Issues

Our Strategic Sustainability Issues	Objectives	Completion Goal	Completed / New Targets
Economic Performance			
National and Local Economic Contributions	Analysis and use of domestic ores in steel production	2023	Our work on the use of domestic ores continues.
	Building 16,000 DWT general cargo ships	2017	2019
	7,500 DWT Stainless Steel Chemical Tanker	2019	2021
	Increase our employment numbers with our new investments	Continuous	In 2019, we employed 197 new staff.
	Making new investments in the shipyard sector.	2020	In 2018, we started the construction of dry pool. The work was resumed in 2019.
	To invest in cement and clinker plants	2023	Work continued in 2019.
Social Performance			
Occupational Health and Safety	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 2019.
	Providing OHS training to 100% of our subcontractors	Continuous	We gave OHS training to all subcontractors who started working in 2019.
	Increase total OHS training time	Continuous	We are constantly searching for training that can provide contributions to our employees.
Employment	Increasing the satisfaction of our employees	Continuous	Monitored via a satisfaction survey. Our investments to improve physical conditions are ongoing.
	Make the İÇÖS Recommendation System more effective	Continuous	We have collected a total of 850 proposals by the end of 2019. We have implemented 309 of these recommendations.
Relations with the Local Community	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	1,004 people visited our facilities in 2019. About 70% of the visitors were students from the District School, and the remaining 30% were NGO representatives.
	To continue to provide trainings at Biga Vocational High School	Continuous	In 2019, no students were enrolled in the Department of Metallurgy at the Vocational High School. Training was decommissioned in 2019. 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 2019, we reached a total of 372 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.
To continue sponsoring the Troia excavations.	2020	Excavations continue.	

Relations with the Local Community	Sponsorship of the Alexandria Troas excavations	2028	Preparation of the protocol for sponsorship studies to be held in 2018.
	Start sponsoring Assos excavations	2021	Excavations continue.
	Güreçalıtı Rescue Site Excavations	2023	Sponsorship for excavations began.
	Sponsorship was commenced for the Maydos Kilisetepe mound excavation site	2028	Excavations continue.
Environmental Performance			
Emission Management	Reducing road transport, giving weight to rail and sea	Continuous	In 2019, we carried out our logistics activities mainly by sea and railway. In 2019, we reduced our transport impact by 7%.
	Liquid steel production primary material utilization and improving material efficiency	Continuous	In 2019, we increased our material efficiency to 83.12%.
	To reach the total number of planted tree saplings to 400 thousand	2023	249,434 seedlings were planted by 2019 and 16,050 in 2019.
	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.
Waste Management	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. It is aimed to be completed by 2020.
	Obtaining a by-product certificate for volatile coal ash formed at our Bekirli Thermal Power Plant	2019	In 2019, A by-product certificate for volatile coal ash was obtained from the Ministry of Environment and Urban Planning.
	Make materials available to daily life from wood waste	Continuous	Using wood waste, we made over 70 pieces of goods for use in our facilities. These include tables, stools, boxes and stairs.
Water Management	Protecting restricted water resources by continuing to extract fresh water from the sea	Continuous	In 2019, we continued to meet all the water needs of our Değirmencik and Bekirli facilities from the sea.
	Reduce water consumption per ton of steel produced.	Continuous	In 2019, we reached our water consumption target of 0.52 m ³ per ton of steel
Energy Management	Keeping the amount of carbon in ash of 3 units at Değirmencik Thermal Power Plant below 10 %	Continuous	The 2019 year-end Average was 8%. Target achieved.
	Reduce energy consumed per ton of steel produced	Continuous	We remained above our energy reduction target in 2019.
Biodiversity Conservation	To continue TUBITAK 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 TUBITAK MAM was extended until 2021.
	Ensuring annual reporting of biodiversity in the region where our Biga facilities are located	Continuous	The 2019 report has been prepared.
	Taking live inventory biodiversity inventory, observing its yearly distribution.	Continuous	A live inventory was created for and around the facility in 2019, but no new species were added.
	Performing Ornithological and wildlife monitoring in RES sites	Continuous	March 1 November-November 1 in 2019 was monitored and reported by our biologist.
	Installing temperature monitoring system for cooling water 1 channel and switching to temperature monitoring process	Continuous	In 2019, installation work was completed and temperatures were actively monitored. Our wastewater measurements with 4 sais are shared live with the CSHB.



Our Economic Performance

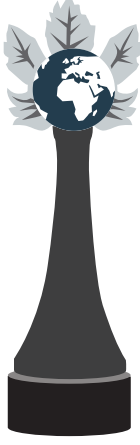
As İÇDAŞ, the foundation of our corporate culture is to fulfill our social and environmental commitments as well as to grow economically. We believe that fulfilling our environmental and social responsibilities along with our financial performance is our priority to ensure sustainable growth.





Awards And Highlights

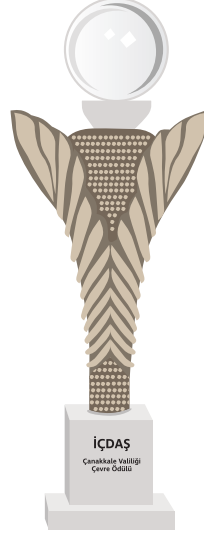
In addition to financial growth, fulfilling our social and environmental commitments is one of the results of our corporate culture at İÇDAŞ. We believe that fulfilling our environmental and social responsibilities as well as our financial performances is the most important factor that ensures sustainable growth.



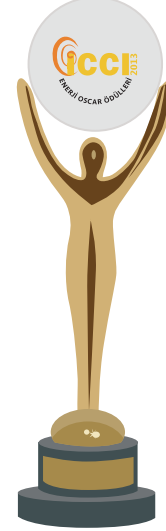
ŞAHABETTİN BİLGİSÜ
ÇEVRE ÖDÜLÜ
2013
KOCAELİ SANAYİ ODASI



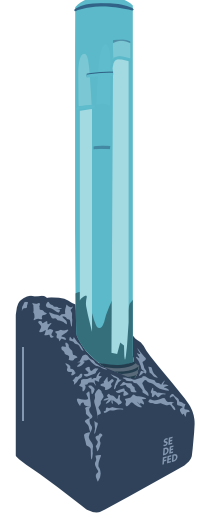
BÜYÜK ÖLÇEKLİ KURULUŞ
SÜRDÜRÜLEBİLİR ÇEVRE DOSTU UYGULAMA
BİRİNCİLİK ÖDÜLÜ
2010
İSTANBUL SANAYİ ODASI



İÇDAŞ
Çevresel Yatılılı
Çevre Ödülü



İÇCE
2013
Environmental Oscar Ödülü



SEDEFED
Rekabet Ödülü



Düşük Karbon Kayıtı



BÜYÜK ÖLÇEKLİ KURULUŞ
SÜRDÜRÜLEBİLİR ÇEVRE DOSTU UYGULAMA
BİRİNCİLİK ÖDÜLÜ FINALİST
2010
İSTANBUL SANAYİ ODASI



İÇDAŞ Çelik Enerji Tersane ve Ulaşım Sanayi A.Ş.

Istanbul Chamber of Industry

Turkey's 500 Largest Industrial Enterprises
16th



With 176 wagons

Turkey's 6th private sector enterprise with largest
fleet İÇDAŞ



İçdaş Elektrik Enerjisi Üretim ve Yatırım A.Ş.

Istanbul Chamber of Industry

Turkey's 500 Largest Industrial Enterprises
63rd



İÇDAŞ
Kocaeli Sanayi Odası
Çevre Ödülü



"TEMİZ TÜRKİYEM"
EN TEMİZ SANAYİ TESİSİ
BİRİNCİLİK ÖDÜLÜ
2013

T.C. ÇEVRE VE ŞEHİRCİLİK BAKANLIĞI



Our Contributions to Sustainable Growth and Economy



Among our employees who participated in the sustainability survey
98% say...

““

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

””

Today, 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 12.93 billion, we 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 have created, we create an economic family of about 10 thousand people in total.

Raw Steel Production



We are one of the largest private sector investors in steel in our country by capacity. Turkey is ranked 8th in the world in steel production. We realize approximately 8.34% of Turkey's steel production at İÇDAŞ facilities. We are the 2th biggest exporter of steel in Turkey.

Energy Production



We produced 4.32% of the energy produced in Turkey in 2019, with 8.66 billion kWh at our Bekirli plant, and 3.87 billion kWh at our Değirmencik Integrated Plant.

Rail Transport



We also retained our place in rail transport in 2019. 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 centers in three points of Turkey (Ankara, Gölcük, Bursa).

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 railway standards (UIC).

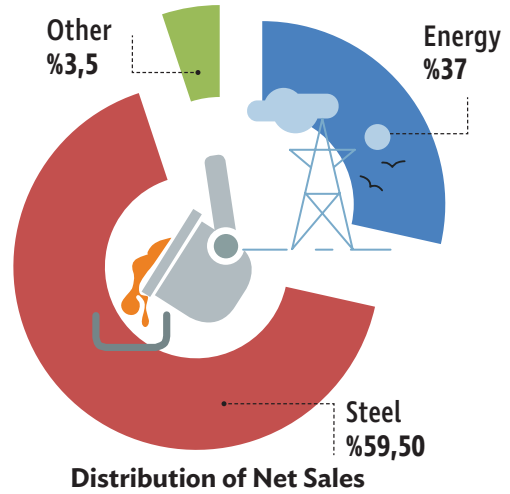
Shipyards Activities and Sea Transportation



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 will complete the construction of the largest dry pool shipyard in our country in 2020 and begin operations.



Distribution of Net Sales	Energy	%37
	Steel	%59,50
	Other	% 3,5



Results and Achievements



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



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



Economic: we have systematized our measurement and monitoring as railway logistics activities become fully compatible with management systems. Productivity has increased, our costs have fallen and solutions to our problems have accelerated.



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

Completed and Ongoing Investments in 2019

Investment Name	Place of Investment	Investment Description	Total Budget	2018	2019
				Investment Amount	Investment Amount
●● Integrated Steel Manufacturing Plant	Değirmencik-Biga	Assessments are ongoing.	\$ 800.000.000	-	-
✓ Rolling Mill 2 (Skilled Steel Bar Rolling Mill)	Değirmencik-Biga	Completed	-	TRY 145,301,520	TRY 326.080
●● Seed Bank	Değirmencik-Biga	Continues.	-	TRY 2,490,692	TRY 2.319.629
●● Liquefied Natural Gas Storage and Gasification Plant	Biga / ÇANAkkALE	Assessments are ongoing.	€ 800.000.000	-	-
✓ Cement Zero Waste and Clinker Plants	Biga-Bekirli and Biga-Karahamzalar	Assessments are ongoing. Construction and R & D work were carried out.	\$ 250,000,000	-	-
●● İÇDAŞ 29 Stainless Steel Chemical Tanker / 7,500 DWT	Değirmencik-Biga	Continues.	€ 17,000,000	£ 18,058,287	
●● İÇDAŞ 5	Değirmencik-Biga	Continues	\$ 14,000,000	£ 44,976,297	TRY 10,379,647
●● Stainless Steel Chemical Tanker / 7,500 DWT(İÇDAŞ-6)	Değirmencik-Biga	Continues			TRY 2,159,109
✓ Scheuerle Transporter	Değirmencik-Biga	Completed			TRY 22,028,658
●● Shipyard Dry Pool	Biga / ÇANAkkALE	Continues	TRY 195,000,000	TRY 58,625,326	TRY 106,608,202
●● Wire Rod Furnace	Biga / ÇANAkkALE	Construction began in 2017. Became operational in 2019.	\$ 3,700,000	TRY 6,561,344	TRY 8,602,600
●● Lime Plant	Değirmencik-Biga	Ongoing. Set to become operational in early 2020.	TRY 31,803,444	TRY 7,326,804	TRY 14,143,519
✓ Process Water Cooling Plant	Değirmencik-Biga	Completed.	TRY 15,000,000	TRY 11,704,145	TRY 5,630,250
●● SAP S / 4 Hana Digital Transformation Project	Istanbul-Biga	Continues.		TRY 3,199,963	TRY 4,754,618



Local Economic Contributions

Our economic contribution to Çanakkale so far is approximately \$ 5.63 billion, including TRY 176,952 million in 2019.

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 we create are included in the “Social Performance” section of our report.

Production Target With Domestic Resources In Steel

With the ongoing contraction in the steel sectors of the world and Turkey, our work on more efficient processes that may be an alternative to scrap, which is the main raw material of our steel production, continues.

Among our production goals, we perform analysis to use domestic ore, which is primarily domestic and national, and thus we aim to produce better quality and less cost-effective production using our resources. Our work continues to convert waste heat energy from our electric arc furnace and rolling annealing furnaces into electrical energy.





Energy Investments



Among our employees who participated in the sustainability survey

97% say that...

GG

İÇDAŞ should continue its investments for renewable energy such as solar energy, wind power energy and hydroelectric power plants.

GG

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

As an internal partner in reducing external dependence on energy and ensuring security of energy supply, our sensitivity to quality and uninterrupted energy supply is increasing. 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 RES (wind power plant) project

On 12 May 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.

After initially commissioning 16 turbines in 2015, we commissioned 3 turbines of 3.2 MW in 2016 with an investment of 100 million dollars. Here we aim to produce 192,895,200 kWh of energy. The projected production amount of the İÇDAŞ Biga WPP project in the license is 210 million kilowatt hours per year. With this production amount, an annual carbon emission reduction of 71,983 tons will be achieved.

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

In September-December 2017, we covered the Rolling roofs of the Biga Değirmencik integrated plant with photovoltaic panels in order to produce electric energy without creating carbon emissions by using renewable energy sources. With the project, which started with an investment of approximately 2.5 million TL, we managed to achieve an economic value of 272.4 thousand TRY in 2019.

We started by planning to cover all roofs with solar panels when the İÇDAŞ Biga SPP project was initiated, but due to the technical obstacles associated with bureaucracy and public transformers, we were able to carry out the project in a very narrow scope.

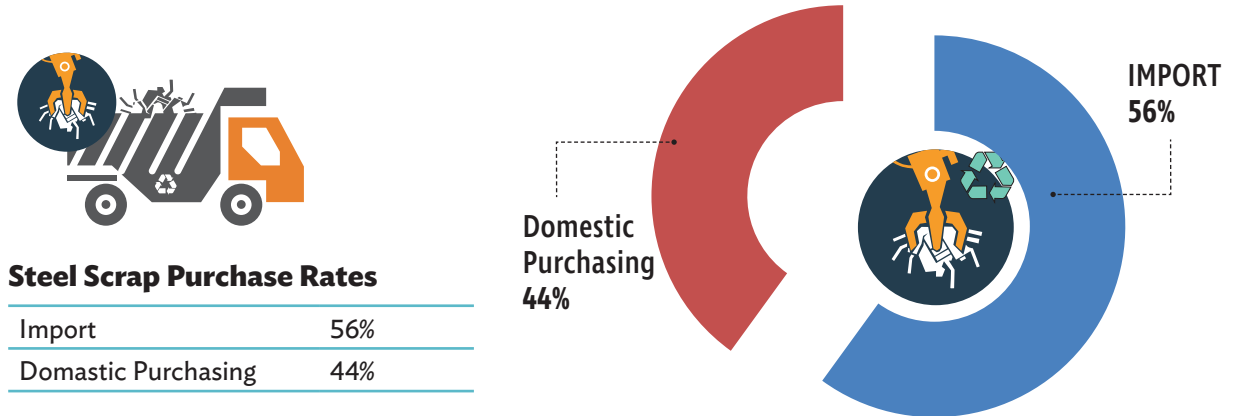
As clean energy sources are an alternative to fossil-derived production in electricity generation, our project will positively affect the entire ecosystem in the immediate vicinity and the population of about 50,000 people around the plant. As transformer connection permits are granted, we aim to extend the application to all steel plants and shipyard roofs.



Our Local Procurement Practices

We meet the needs of our company from various parts of the world and Turkey, mainly in the supply of raw materials. Our supplies from Turkey's internal borders cover the word "local" in the supply for İÇDAŞ. 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. Looking at the proportion of our suppliers, our local suppliers are leading with a rate of 95%. From a financial point of view, we share 56% of our expenses with our foreign suppliers.



İÇDAŞ Supply Chain Structure	Local	Foreign								
Total number of suppliers	3.144	146								
Locations of suppliers by country or region	<table border="1"> <tr> <td>Non-Scrap</td> <td>Scrap</td> </tr> <tr> <td>Marmara: 2479</td> <td>Marmara: 70</td> </tr> <tr> <td>Aegean: 141</td> <td>Aegean: 5</td> </tr> <tr> <td>Other: 434</td> <td>Other: 15</td> </tr> </table>	Non-Scrap	Scrap	Marmara: 2479	Marmara: 70	Aegean: 141	Aegean: 5	Other: 434	Other: 15	European Community, United States, China, Colombia, India, Israel, Russia, Ukraine, Brazil, Bosnia And Herzegovina, Canada, South Korea, Libya, Malaysia, Mozambique, Lebanon, Adriatic
Non-Scrap	Scrap									
Marmara: 2479	Marmara: 70									
Aegean: 141	Aegean: 5									
Other: 434	Other: 15									
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	TRY 3.89 Billion	TRY 5.04 Billion								

Social Performance

As İÇDAŞ, we carry out all our operations in our areas of activity with a zero accident target, while our responsibilities towards the development, safety, health of our employees and the local people in the areas where our facilities are located constitute our social effects.

Local people, including our employees and the families of our employees constitute the social stakeholders of İÇDAŞ. 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



Among our employees who participated in the sustainability survey

%98% say...



İÇDAŞ's regard and measures for ensuring 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 System certificate was obtained.	
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	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	TISK
2017	Golden Proposal Award	MESS
2018	Hazardous Materials and Safety Unit established within Occupational Health and Safety	

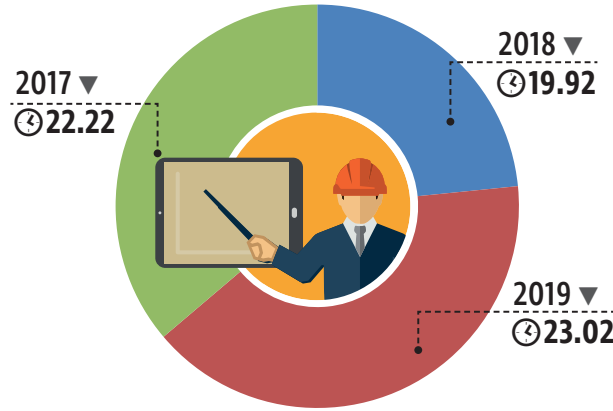
The steel industry is within the base metal industry and is one of the industries considered to be 'heavy'. The mass of the material and the machines heavy and constantly moving from one place to another, such as the temperature of the melted metals to 1,800 degrees, toxic and corrosive substances, odor, 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 OHSAS 18001 - 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 2019, we trained our employees for 32.9 hours per person, including 23.03 hours OHS. Data on our OHS performance are included in the 'Social Performance Indicators' section of our report.

OHS training hours per person	Unit	2017	2018	2019
All Employees	Time / Employee	22.22	19.92	23.03



Radiation Safety

We have a rigorous control system to recover scrap without creating risks to the environment and safety of workers. As İÇDAŞ, 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.

We control steel scrap at every stage from the procurement process to its admission to our facilities and its processing. The countries in our scrap supply system are the least likely to contain explosives, chemical waste or radioactive waste and contamination.

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

Değirmencik integrated facility has a total of eight entrance and exit gates, four of which are in the port and four on the highway. All of our doors have a fixed radiation measuring device. Our Scrap Surveyors check again for scrap that has successfully passed the entrance checks.

Radiation checks are performed immediately after melting steel scraps to prevent errors caused by humans or equipment. Radiation measurement devices are available in our facilities, where we have smoke extraction and dust collection systems to detect radiation. Smelting processes are constantly monitored with the devices located in each of our three fume extraction plants connected to our steel mills.

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.



Relations with Our Employees

Among our employees who participated in the sustainability survey
81% say...

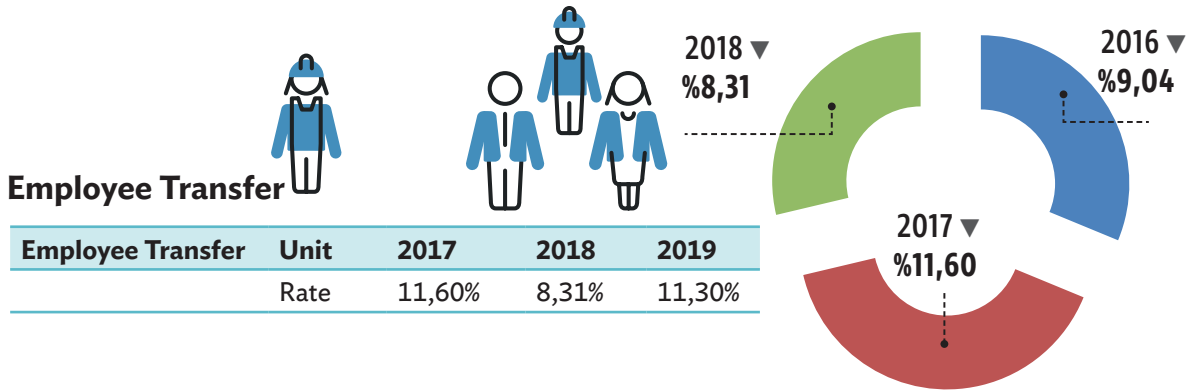
İÇDAŞ's trainings and programs provided to its employees with regard to supporting individual development are sufficient.

İÇDAŞ Board of Directors accepts the labor of its employees as 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”**.

At the beginning of the most important elements of İÇDAŞ's 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. 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)

The internal system started with the initiative of the İÇDAŞ 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 850 proposals came from the beginning of the system until the end of 2019, and 309 of these proposals were implemented for OHS improvement and labor efficiency. Cost savings were also achieved in production processes.

Our Local Employment Rate

Evaluating local human resources is one of our priorities. When recruiting for this, applications from the people of the region are among our preferred reasons. This approach plays an important role in facilitating harmony among our employees and enabling the quality of life of the people of the region to improve.

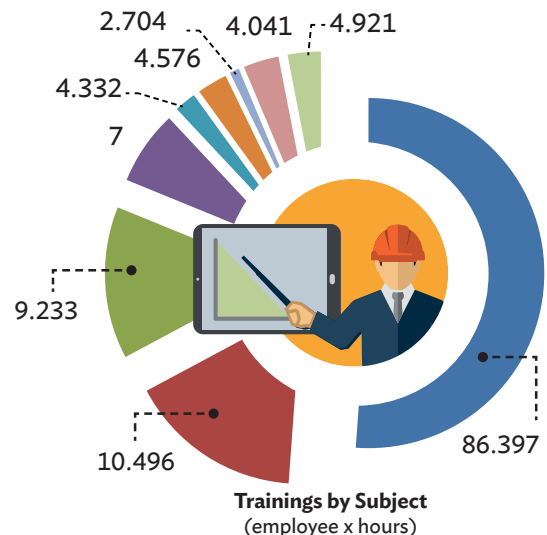
Today, more than four thousand regional people are directly employed within İÇDAŞ, while the regional employment created by our company with the services received from the region reaches six thousand people.

Local Employment In Çanakkale	Status	2017	2018	2019
Senior Directors	Local	21	20	24
		40%	38%	%48
	Other	32	32	26
Değirmencik Plant	Local	3.070	3.426	3.195
		76%	77%	79%
	Other	954	1.050	859
Bekirli Facility	Local	584	617	567
		76%	81%	82%
	Other	182	141	126
Total	Local	3.675	4.063	3.786
		76%	77%	%79
	Other	1.168	1.223	1.011
		23%	%21	

Training and Education

In 2019, we provided 133.712 hours of training to İÇDAŞ staff in 9 main headings, including health, safety and personal development trainings. 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	86.397
Orientation	10.496
Professional	9.233
Single Point	7
Information Security	4.332
Quality	4.576
Personal Development	2.704
Energy Management System	4.041
Environment and other	4.921
Total	133.712



Equality of Opportunity and Human Rights



As partners, 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. According to the performance evaluations of our employees, wage increases occur.

In our country, as in the whole world, our female employment rate is low due to the nature of the steel and energy sectors. Female employment in our group constitutes 2.77% of total employment.

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 employees participate effectively in decision-making processes. One of our communication platforms is the monthly evaluation meetings attended by trade union representatives and workers' representatives. Our proportion of unionized workers depends on the large scale of the sector being labor intensive.

Our Employees Under Collective Bargaining Agreements	2017	2018	2019
Number	2.648	2.999	2.697
Rate	49,3	51,5	51,09



(GRI 102-41)





Local Community Engagement

Among our employees who participated in the sustainability survey
95% say...



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 have approached the culture, history and traditions of our geography with respect since the first day of our investments in the region. We aimed to protect the values and interests of the people of the region. It is important that our managers are mainly people of the region in achieving this goal.

Facility Promotion Trips

We started to organize factory promotion trips between March and October of each year with the support of İÇDAŞ Press and Public Relations Directorate, 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 order to transfer visits to our facilities to large sections of society, we ensure that opinions and thoughts about visits are included in the written and visual press. Our goal is 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.

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. We plan to continue the application in the coming years, with four to six visitor groups per month and eight months per year.

Results and Achievements



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.



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.



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

Among our employees who participated in the sustainability survey **94% say...**

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



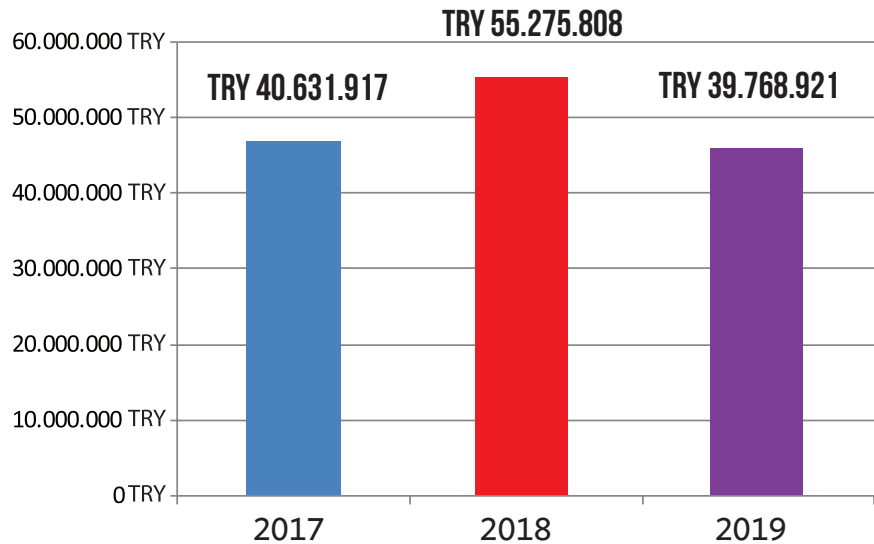
We continue our work to increase educational opportunities, improve social life with the quality of life of society, and meet social needs and expectations. We are also aware of our responsibilities with our motto "healthy-educated-social Youth; solid Society".

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 294.4 million in 2019, with TRY 39.4 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	2017	2018	2019
Social and Environmental Infrastructure	TRY 30.098.585	TRY 29.384.314	TRY 34.774.244
Sport	TRY 746.206	TRY 1.009.165	TRY 343.201
Education	TRY 8.376.634	TRY 20.094.043	TRY 158.662
Cultural	TRY 1.410.492	TRY 4.788.286	TRY 4.492.814
Total	TRY 40.631.917	TRY 55.275.808	TRY 39.768.921

Our Social Support in Local Community and Economy



Education Support



The main reason for our investment in education is the lack of qualified personnel in the region. School and dormitory, construction and infrastructure support, student scholarships, vocational training and similar projects are evaluated under the heading of Education. In 2019, we provided scholarships of 494,550 TL to 188 students, 62% of whom were female students. In this way, we have provided scholarships worth TRY 6.8 million to 3,749 students in the last eleven years.

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. 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 supporting the excavations of Parion, Smintheion, Troia, Assos, Alexandria Troas, Maydos Kilistepe mound and Gürecealtı rescue area.

Activity	Place of Activity (Çanakkale)	Related Stakeholders	Type	2019 Budget (TRY)
Science High School 2019 Budget	Biga	Directorate of National Education	Education	31,451.02
Çanakkale Security Dir. Regulation of the Intelligence Chamber	Biga	Çanakkale Security Dir.	Social and Environmental Infrastructure	118,000
Mehmet Akif Ersoy Event	Ezine	Ministry of Culture and Tourism	Cultural	135,250
Lapseki İçdaş-Çib Vocational High School	Lapseki	School Directorate	Education	3,366
Tourism Week Event	Biga	Biga District Governorate	Cultural	7,680
Veterans' Week Event	Biga	Çanakkale Provincial Gendarmerie Com.	Cultural	926
Apollon Excavation Site	Ayvacık	Ministry of Culture and Tourism	Cultural	362,247.19
Troas Excavation Site	Ezine	Ministry of Culture and Tourism	Cultural	295,567.40
Trip to Troy Museum	Çanakkale		Cultural	1,400
18 March Hatime Main Grand Mosque	Çanakkale	Religious Affairs / 18 March University	Social and Environmental Infrastructure	6,461,636.72
Gürecealtı Üstünlü Rescue Work	Lapseki	Ministry of Culture and Tourism	Cultural	355,955.85
Çanakkale Closed Prison	Çanakkale	Çanakkale Governorate	Social and Environmental Infrastructure	133,713.50
Ramadan Food Aid	Biga	Biga District Governorate	Social and Environmental Infrastructure	181,719.54
Food Aid to Syrian Families	Çanakkale		Social and Environmental Infrastructure	59,983.09
Tree Planting Ceremony	Çanakkale	Ministry of Agriculture and Forestry	Social and Environmental Infrastructure	26,400

İÇDAŞ Congress Center	Çanakkale		Social and Environmental Infrastructure	730
Beyoba Tumulus	Çanakkale		Cultural	3,500
Cabotage Feast Event	Çanakkale		Social and Environmental Infrastructure	26,475
TACETTİN Aslan MOSQUE	Çanakkale	Religious Affairs	Social and Environmental Infrastructure	10,000
Balıkliçeşme Gendarmerie Station	Biga	Biga District Governorate	Social and Environmental Infrastructure	4,224
Donations to Educational Institutions	General	The Ministry of Education	Education	105,099.01
Parion Excavation Site	Biga	Ministry of Culture and Tourism	Cultural	737,226.27
Asos Excavation Site	Ayvacık	Ministry of Culture and Tourism	Cultural	513,238.67
Troy Excavation Site	Çanakkale	Ministry of Culture and Tourism	Cultural	536,099.39
Maydos Excavation Site	Eceabat	Çanakkale Governorate	Cultural	405,948.18
Şahmelek Promenade	Biga	Directorate of Forestry	Cultural	802,620.88
Construction Steel Aid	General	Çanakkale Governorate	Social and Environmental Infrastructure	343,201.30
Other Activities	General	General	Social and Environmental Infrastructure	27,472,854.71

Employment Opportunity without Military Obligation from İÇDAŞ to Graduates

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.

As in all sectors involved in business, the metal sector also requires a qualified work force. 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.

Number of Students and Scholarship Amounts

Year		2017	2018	2019
Vocational High Schools	Girl	17	8	14
	Boy	15	12	10
	Total	32	20	24
University	Girl	157	87	96
	Boy	193	118	54
	Total	350	205	150
Other	Girl	27	15	6
	Boy	29	11	8
	Total	56	26	14
Total Students		438	251	188
Total Scholarship Amount		793.264 TL	528.260 TL	494.550

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

The absence of personnel with the required qualifications is one of the important problems of the private sector. 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.

As a result of a meeting between the General Directorate of İÇDAŞ and the rector of Çanakkale Onsekiz March university, 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 2019, no students were enrolled in the Department of Metallurgy at the Vocational High School. Training was decommissioned in 2019. 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



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.



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.



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



Tacettin Aslan Vocational and Technical Anatolian High School Campus



İçdaş Sports Club

Çanakkale has the second longest coast in Turkey. We established Karabiga Sailing School in Karabiga Resort in 2004 in order to provide a wide audience with world class facilities for water sports (swimming, sailing, etc.) completely free of charge.

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 have identified contributing to young people so as for them to develop as healthy, confident, competitive and sporting individuals with a team spirit as the primary goal of the project, utilizing the geographic advantages of the region. With the application, we aim to strengthen our corporate image, increase our brand awareness, and contribute to the development of the region's economy and tourism.

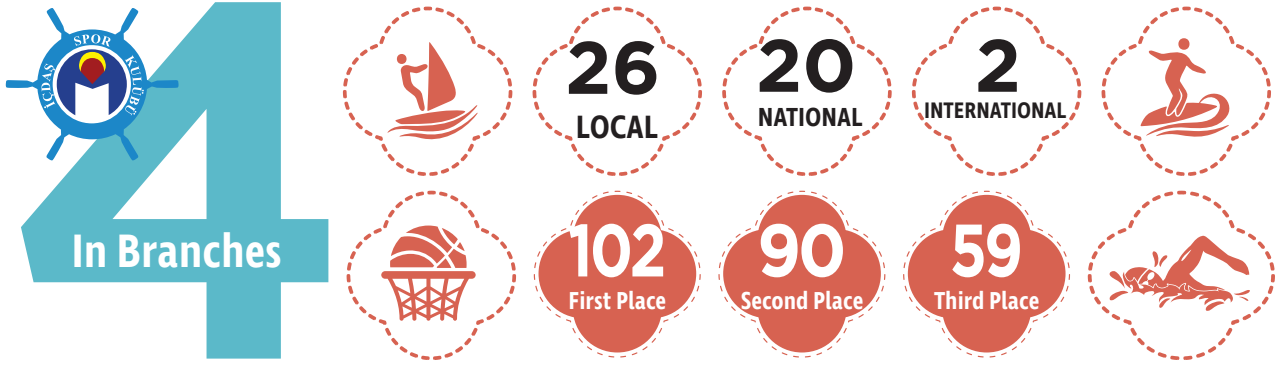
Within the scope of Sports Club activities, we receive support regarding place arrangements, regional and national competitive organizations and logistics from Turkish Sailing Federation, Turkish Swimming Federation, Çanakkale Youth and Sports Provincial Directorate, Çanakkale Sailing Provincial Office, 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 372 students, 198 of whom are licensed in five different branches.

Number of Students				
	Branches	Licensed	Amateur*	Total
1	Sailing - Wind Surf	48	7	55
2	Swimming	44	93	137
3	Basketball	84	0	84
4	Chess	0	45	45
5	Archery	22	29	51
	Total	198	174	372



Crowned Achievements!



İÇDAŞ Sports Club 2019 Achievements

Branches	Awards	Competitions
Swimming	49 Gold medals	5 Local
	48 Silver medals	6 National
	27 Bronze medals	
Sailing	24 Gold medals	8 Local
	23 Silver medals	4 National
	18 Bronze medals	1 International
Surf	24 Gold medals	8 Local
	19 Silver medals	6 National
	12 Bronze medals	1 International
Basketball	3 Gold medals	5 Local
	2 Silver medals	4 National
	2 Bronze medals	

Results and Achievements



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.



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.



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.





Sponsorship for Culture and History

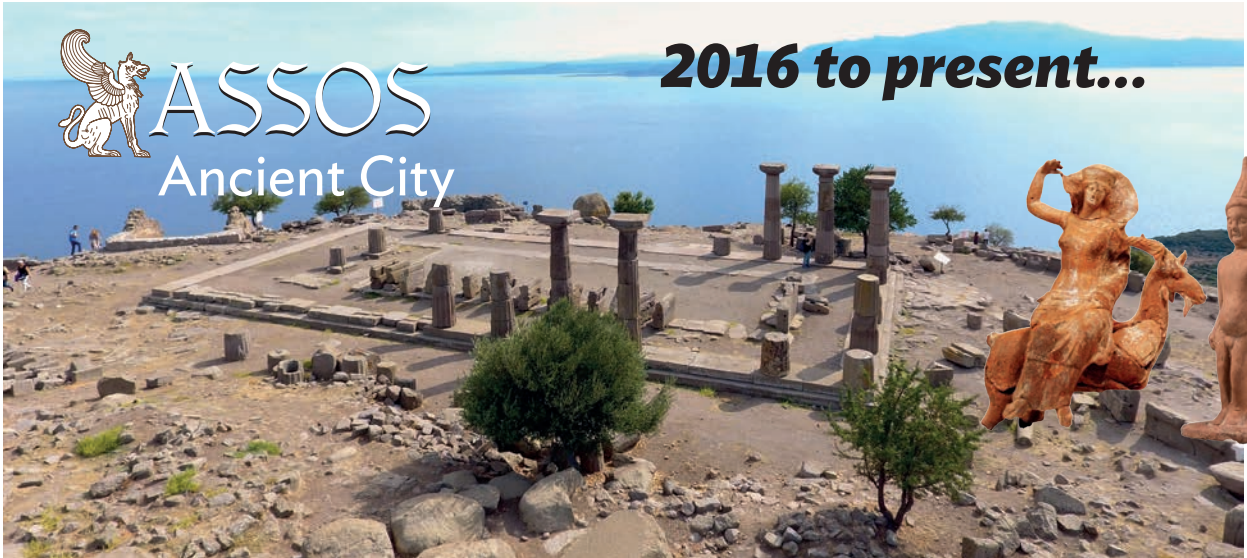
Among our employees who participated in the sustainability survey
98% say...

We know that İÇDAŞ gives financial support to the excavations of the ancient cities of Troy (Troy), Parion, Apollon Smintheion, Assos, Alexandra Troas and Maydos Kilisetepe mound in our region.

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

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. By being the main sponsor of the ongoing archaeological excavations in this region, which date back to 7000 years, we take care of our cultural heritage and shed light on the history.









Environmental Performance

As İÇDAŞ, we aim for sustainable growth in all of our fields of operation by targeting prevention of environmental pollution, waste reduction, energy efficiency, controlling emissions and responsible use of natural resources within the scope of our environmental policy in all of our realized and projected investments.

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.

İÇDAŞ AND THE ENVIRONMENT

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



Environmental Management



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



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 7% in 2019. 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 2019, the total amount of operating expenses and investments we made for Environmental Protection was over TRY 222.6 million, of which about TRY 184.1 million was in Değirmencik and the rest was in Bekirli plant.





Waste Management

Among our employees who participated in the sustainability survey
95% say...

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

We regularly analyze our waste caused by the activities of our plant, monitor and 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.

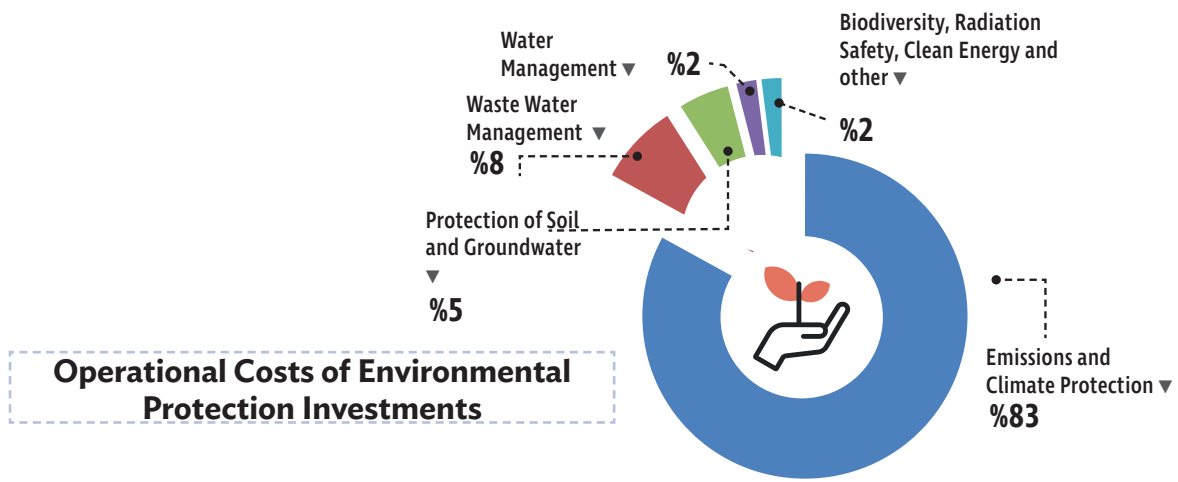
Process-derived wastes are the most important subject of waste management. The process wastes from our facilities are steel mill slag, steel mill flue powder, rolling mill flood and thermal power plant ash. In addition to process waste, waste oils, WARL, packaging waste, organic waste etc. also come 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 2019, we recovered 62% of our waste from our Değirmencik plant and disposed of 38% 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.

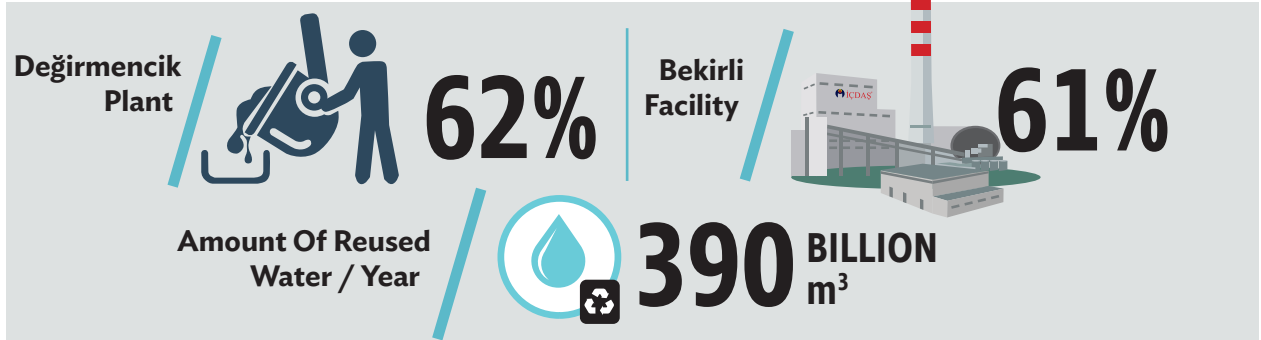
In 2019, we recovered 61% of our waste from our Bekirli facility and disposed of 39% by methods in accordance with the law. In 2019, we started to meet their raw material needs by obtaining a by-product certificate for volatile coal ash and sending it to cement factories and concrete production facilities. In this way, we continued our work on reducing our process waste from our plant.

Environmental Activities Operating and Investment Expenditures	2019	
Emissions and Climate Protection	TRY 185.074.051	83%
Waste Water Management	TRY 17.163.782	8%
Protection of Soil and Groundwater	TRY 11.531.974	5%
Waste Management	TRY 4.953.424	2%
Biodiversity, Radiation Safety, Clean Energy and other	TRY 3.950.096	2%
Total	TRY 222.673.327	100%



HIGHLIGHTS

Our Recycling Waste Rate



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 2019.

Results and Achievements



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



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.



Economical: 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.



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

Water Management

Among our employees who participated in the sustainability survey
93% say...

İÇDAŞ's works regarding the management and efficient use of water resources are sufficient.

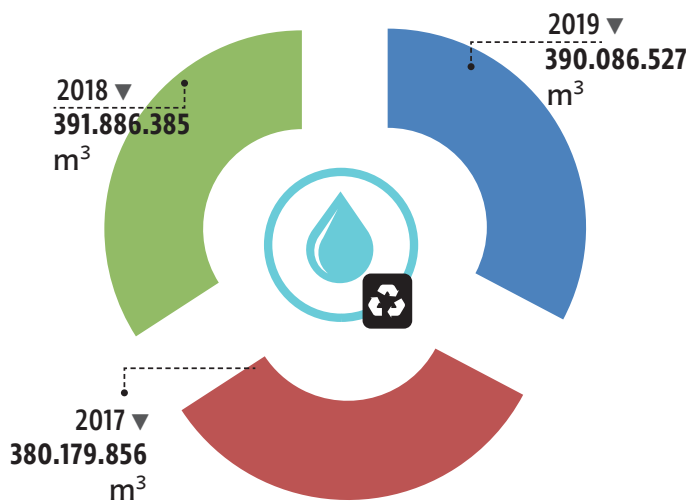
Since 2007, we have been managing a 'Sustainable Water Management Project' with a holistic approach at İÇDAŞ Değirmencik integrated plant.

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.

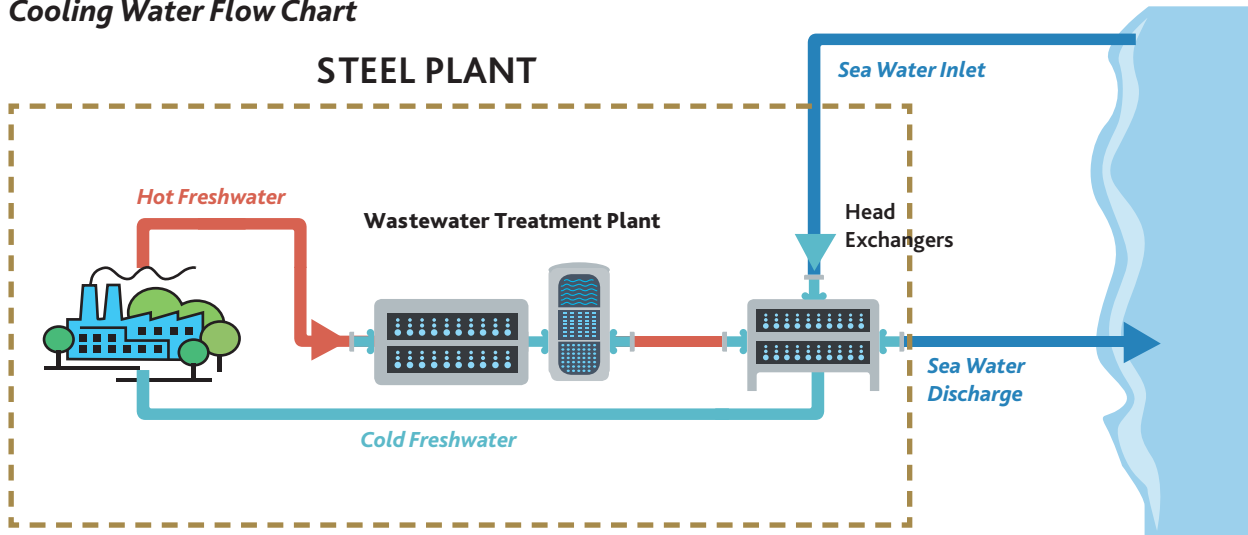
As İÇDAŞ, we supply water from the sea as use and process water in all our facilities. We meet 99% of our water needs in our steel plants and 98% of our energy plants from seawater. Because we use seawater, there is no water source affected by our activities.

Reclaimed And Reused Water

2017	380.179.856 m ³
2018	391.886.385 m ³
2019	390.086.527 m ³



Cooling Water Flow Chart

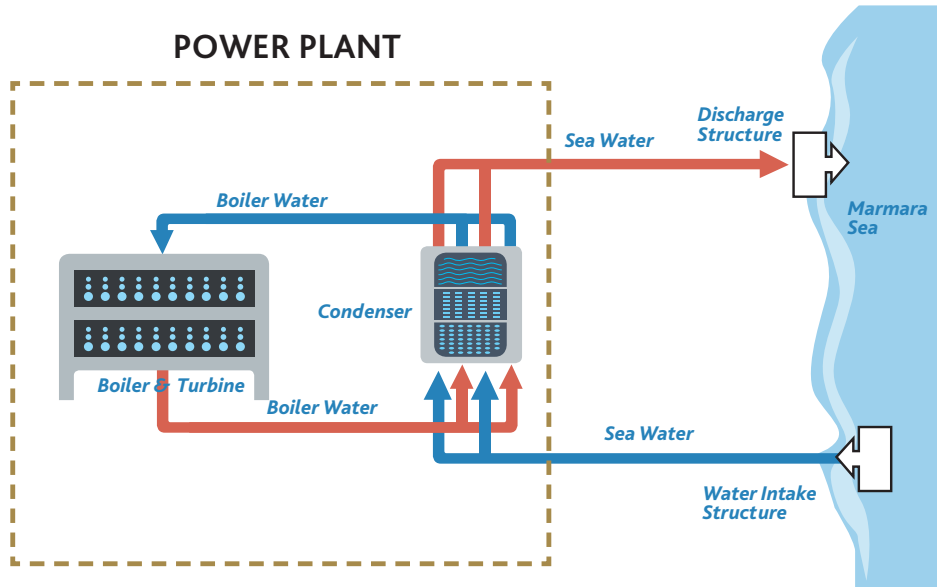


Sustainable Water Management Project

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 M³ 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 m³/day, but will be 7,000 m³/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 m³ capacity plant in our Değirmencik integrated plant and produce 18,000 m³ 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 m³/day. Thus, our facilities in Biga reached a capacity of 30,000 m³/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 m³/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.

The initial investment cost of the facility is 150 thousand dollars. With the project, we produced a total of 368,000 sea bream, 55,000 of which were in 2019, and 233,000 sea bass, of which 20,000 were in 2019.

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



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.



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 engaged in fishing.



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



Energy Management

Among our employees who participated in the sustainability survey
95% say...

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 6% of Turkey's total energy consumption. The share of the industry in energy consumption is about 15%. 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. 90% of the total energy needs of all of İÇdaş's facilities are met by coal, 8% by electricity and 2% by natural gas.

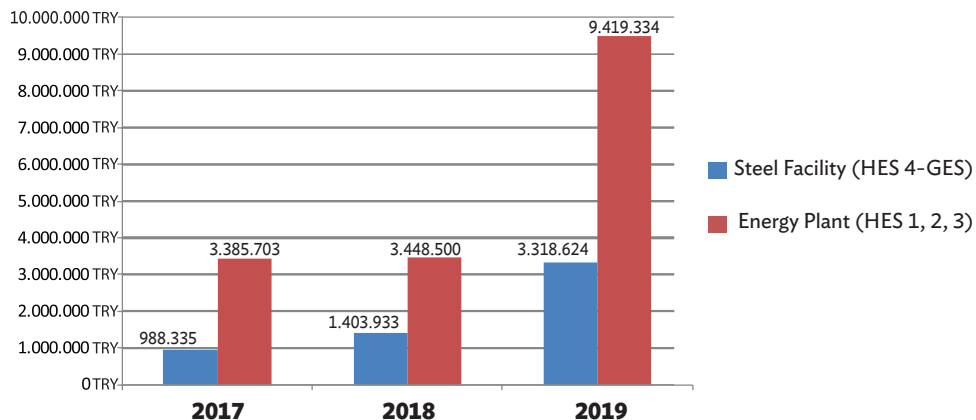
As part of the ISO 50001 energy management system, we implement our improvement action plans and monitor our performance in order to ensure maximum performance by means of measures to protect Energy, Natural Resources, reduce electricity and natural gas consumption in facilities.

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	2017	2018	2019
Steel Plants (HPP 4-SPP)	TRY 988.335	TRY 1.403.933	TRY 3.318.624
Power plant (HPP 1-2-3)	TRY 3.385.703	TRY 3.448.500	TRY 9.419.334
Total	TRY 4.374.038	TRY 4.728.861	TRY 12.737.958



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 2019, we used 25.54 million kilowatt hours of electricity produced in hes in our steel and energy facilities to provide an economic value of TRY 12.46 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.



Bekirli Termik Santrali



Emission Management

Among our employees who participated in the sustainability survey
87% say...

İÇDAŞ's emission reduction projects and other emission preventive efforts it performs with its environmental consciousness are satisfying.

Emission is one of the most important environmental parameters in the operation of İÇDAŞ's energy and steel production facilities. The emission, which is part of İÇDAŞ environmental management, complies with local legislation and EU criteria. All emission points in our facilities operate in accordance with national limits and the best techniques available internationally.

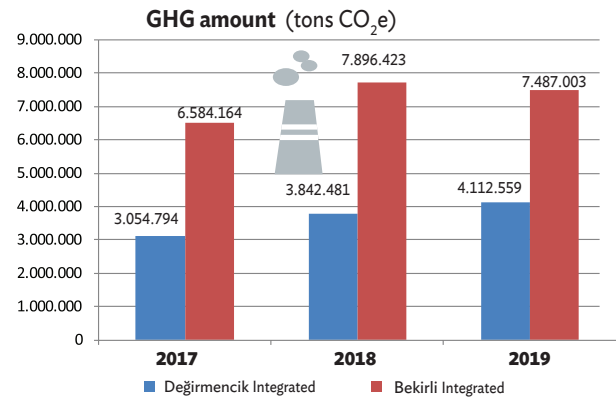
In addition to emissions measurements made in chimneys, we have been continuously conducting and reporting dust emission measurements that must be made once every two years and at two points in accordance with the legislation at eight stations established at the plant borders since 2006. The dust retention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

Greenhouse Gas Effect (Monitoring Of Carbon Emissions)

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.

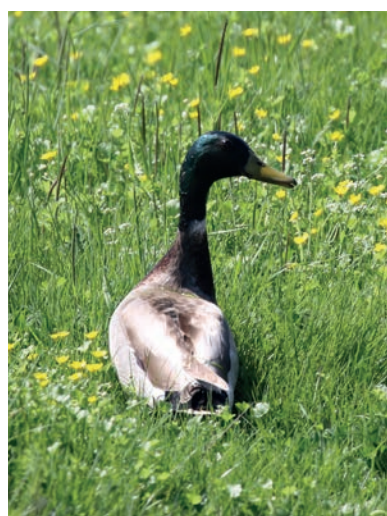
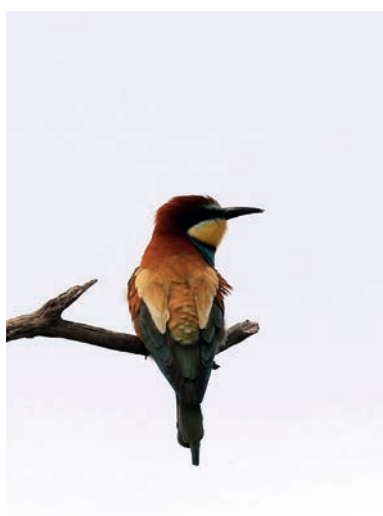
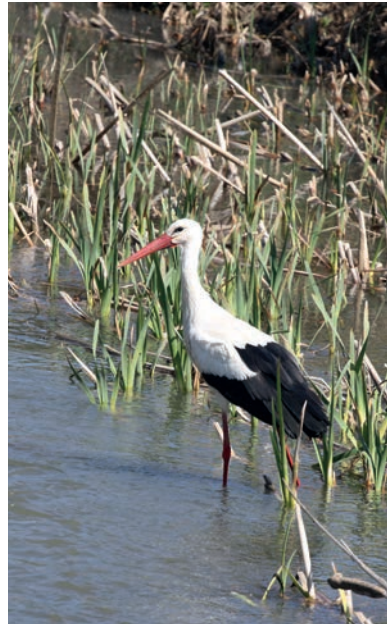
December October 2012 the greenhouse gas amount for 2011 was audited by Bureau Veritas and certified in December 2012. We have created a carbon management infrastructure for calculating, reporting and managing greenhouse gas emissions. In the period 2012-2014, we also made our greenhouse gas calculations in accordance with ISO 14064-1. As of 2015, we are making our calculations within the scope of legislation.

Calculations Made Within The Scope Of Legal Legislation			
	Greenhouse gas amount (tons CO ₂ e)		
Facility Name	2017	2018	2019
Değirmencik Integrated Plant	3.054.794	3.842.481	4.112.559
Bekirli Facility	6.584.164	7.896.423	7.487.003



Monitoring Air Quality with 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) based on the principle of transparency. We continue to manage our initiative, which started voluntarily with this system, today under legal obligation.





Biodiversity Conservation



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

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 2019 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 the internal 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

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 2019 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, breeding-housing - 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 2019, 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, and 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

As part 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.

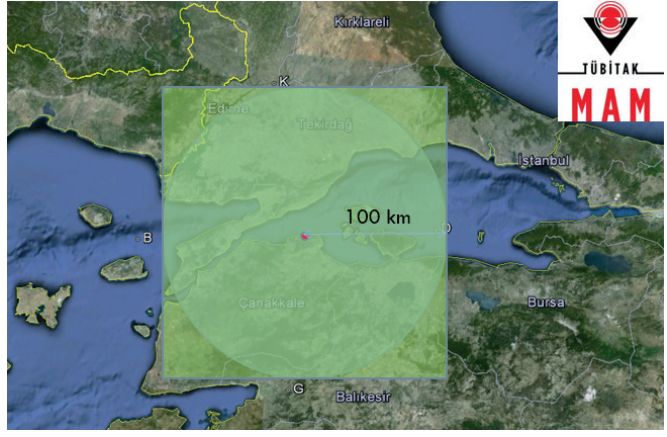
In 2019, the artificial reef areas displayed by our divers showed that our project was moving in a positive direction. Fish and other marine creatures have been observed heading towards the reefs and there has been an increase in the number of species.

TUBITAK 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 km² 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 TUBITAK 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 TUBITAK 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. TUBITAK 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 TUBITAK 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.

We received the first interim report together with the 2nd Phase Agreement signed on 8 June 2016. In addition to previous years, periodic measurements at certain points were also started at WPP site 1, Karapurçek and Gürecealtı. In 2019, 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



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.



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.



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 TUBITAK 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

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.

Beekeeping, Beekeeping and Ovine Breeding

Operation place: : Değirmencik-Bekirli villages / Biga district

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

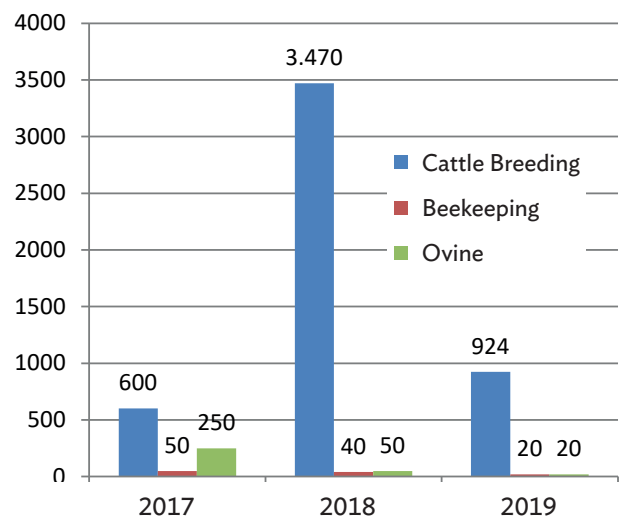
Products: : Fish, honeycomb honey, strained honey, pollen, carcass meat, eggs

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
- Çanakale Beekeepers Association

Animal Husbandry Investments (TRY 1,000)

	2017	2018	2019
Cattle Breeding	600	3.470	924
Beekeeping	50	40	20
Ovine	250	50	20



Agricultural Practices

Application place: Değirmencik- Biga

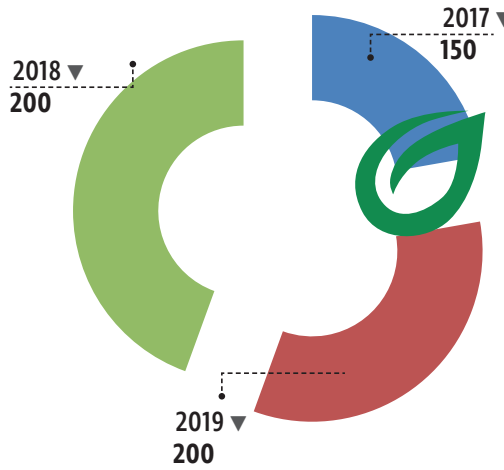
Products: Pepper, tomato, apple, melon, watermelon, cabbage, lettuce, eggplant, molasses, grapes, jam, tomato paste

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

Agriculture Investments (TRY 1,000)

2017	2018	2019
150	200	200



Results and Achievements



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



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.



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



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 Izmir 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

Our Economic Performance Indicators


✓ Economic Value Created and Distributed (TRY 1,000)	2019	
	İÇDAŞ STEEL ENERGY	İÇDAŞ ELECTRICITY GENERATION
Economic Value Created (Revenues)	10.262.127,529	3,025,220,337
Economic Value Distributed to Stakeholders		
Operating Expenses	9.779.285,192	2.293.173,249
Employee benefits	469.743,572	67.057,535
State benefit	134.124,057	201.292,635
Community benefits	12.170,926	2.419,593
Non-distributed economic value (profit)	-133.196,219	461.277,325

Social Performance Indicators

👤 EMPLOYEES			
By Gender	2017	2018	2019
Boy	5.230	5.671	5.133
	97,27%	97,34%	97,23%
Female	147	155	146
	2,73%	2,66%	2,77%
TOTAL	5.377	5.826	5.279


👤 By Type Of Employment	2017	2018	2019
White Collar-Female	100	111	104
White Collar-Male	564	572	524
Blue Collar-Female	47	44	42
Blue Collar-Male	4.666	5.099	4.609
TOTAL	4.732	5.826	5.279


👤 By Contract Type	2017	2018	2019
Full-time employee-Female	147	155	146
Full-time employee-Male	5.230	5.671	5.133
Part-time employee-Female	0	0	0
Part-time employee-male	0	0	0
TOTAL	5.377	5.826	5.279

 By Location	2017	2018	2019
Istanbul (Office, Ambarli Port, Ikitelli) - Female	77	81	77
Istanbul (Office, Ambarli Port, Ikitelli) - Male	314	307	280
Değirmecik-Female	52	59	55
Değirmecik-Male	3.972	4.417	3.999
Bekirli-Female	18	15	14
Bekirli-Male	748	743	679
Anatolia Employee - Female	0	0	0
Anatolia Employee - Male	148	151	117
Ships - Female	0	0	0
Ships - Male	48	53	58
Gemiler - Erkek	5.377	5.826	5.279
TOTAL	4.732	5.377	5.826

EMPLOYEE TRANSFER

By Gender	2017	2018	2019
Female - New recruit	63 4,5%	49 4,5%	4 2,0%
Female - Left work	40 5,3%	36 5,8%	14 1,9%
Male - New recruit	1.340 95,5%	1.031 95,5%	193 98,0%
Male - Left work	719	584 94,2%	728 98,1%
TOTAL - Hired	1.403	1.080	197
TOTAL - Left Work	759	620	742

 By Location	2017	2018	2019
Bekirli - Hired	159 11,3%	84 7,8%	0 0,0%
Bekirli - Left work	104 13,7%	92 14,8%	30 4,8%
Değirmecik - Hired	1.010 72,0%	806 74,6%	29 2,7%
Değirmecik - Left work	452 59,6%	348 56,1%	479 77,3%
Istanbul - Hired	48 3,4%	42 3,9%	10 0,9%
İstanbul - Left work	44 5,8%	37 6%	45 7,3%
Anatolia - Hired	50 3,6%	10 0,9%	3 0,3%
Anatolia - Left Work	24 3,2%	7 1,1%	36 5,8%
Ships - Hired	136 9,7%	138 12,8%	155 14,4%
Ships - Left Work	135 17,8%	136 21,9%	152 24,5%

 By Age	2017	2018	2019
30 and under - Hired	765	439	57
	54,53%	40,65%	5,28%
30 and under - Left work	274	217	250
	36,10%	35%	40,32%
Ages 30 to 50 - Hired	569	523	98
	40,56%	48,43%	9,07%
Ages 30 to 50 - Left work	424	313	378
	55,86%	50,48%	60,97%
Age 50 and over - Hired	69	118	42
	4,92%	10,93%	3,89%
Age 50 and over - Left work	61	90	114
	8,04%	14,52%	18,39%

Employee Turnover	2017	2018	2019
Employee Turnover Rate	11,60%	8,31%	11,30%

ALL TRAININGS	2017	2018	2019
All employees (hours / employees)	43,91	32,70	32,98
OHS TRAININGS	2017	2018	2019
All employees (hours / employees)	22,22	19,92	23,03

Trainings By Subject (Employee X hours)	2017	2018	2019
Occupational Health and Safety	45.269	83.680	86.397
Orientation	31.112	26.216	10.496
Professional	51.122	22.892	9.233
Single Point	11.011	11.208	7.000
Information Security	6.129	3.252	4.332
Quality	10.336	4.573	4.576
Personal Development	1.896	1.416	2.704
Energy Management System	10.368	5,336	4.053
Environment and other	5.450	5.003	4.921
Total	172.693	163.576	133.712

OCCUPATIONAL HEALTH AND SAFETY	2017		2018		2019	
Region: Turkey (İÇDAŞ employees)	Female	Boy	Female	Boy	Female	Boy
Accident Frequency Rate **	0,00	20,68	0	20,94	0	19,95
Occupational Disease Rate	0	0	0	0	0	0
Number Of Accidents Resulting In Fatalities	0	0	0	0	0	0
Lost Day Rate	0,00	0,30	0	0,32	0	0,42
Absentee Rate	2,16	1,45	1,06	1,41	4,13	1,30

Only number of accidents is monitored regarding the subcontractors. Other data is not available.

**Accident Frequency: Number of accidents in one million hours worked

AF=Total number of accidents / (Total number of employees x 300 days x 7.5 hrs.) - (Total number of days of absence x 7.5 hrs.) x 1,000,000

1 Fatal accident=7,500 lost days

All first aid level accidents are included within the accident frequency rate. Fatal accidents are included within the accident frequency rate. Lost days are calculated based on calendar days. Lost day count starts the day after the accident. hesaplanır. Kayıp gün sayımına kazanın ertesi günü başlanır.



Our Performance Indicators

ENERGY DATA

Secondary energy purchased and consumed from non-renewable energy sources-electricity

Facility Name	Unit	2017	2018	2019
Steel Plants	kWh	2.461.552.283	2.221.835.879	1.739.001.637
	GJ	8.861.588	7.998.609	6.260.405
Power Plant-Değirmencik	kWh	285.763.427	279.996.274	327.331.464
	GJ	1.028.748	1.007.987	1.178.393
Shipyards	kWh	1.127.243	2.829.394	2.287.834
	GJ	4.058	10.186	8.236
Auxiliary Facilities*	kWh	203.426.280	204.346.847	170.393.447
	GJ	732.335	735.649	613.416
Power Plant-Bekirli	kWh	485.717.023	452.892.083	415.313.722
	GJ	1.748.581	1.630.411	1.495.129

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

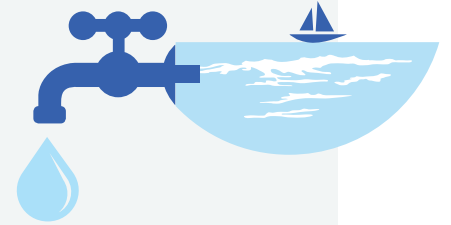
Energy Generated from Renewable Energy Sources and Consumed in the Plant - Electricity

Facility Name	Unit	2017	2018	2019
Steel Plants (HPP4)	kWh	4.816.000	6.239.000	6.243.000
	GJ	17.338	22.460	22.474
Power Plant (HPP1-2-3)	kWh	16.498.000	16.804.00	19.304.248
	GJ	59.393	60.494	69.495
Steel plants (SPP)	kWh	0	602.147	55.281
	GJ	0	2.168	2.009



WATER AND WASTEWATER MANAGEMENT

Amount Of Water Drawn From The Sea To Obtain Fresh Water	Year	m ³ /year
Steel Plants	2017	2.772.897
	2018	1.902.764
	2019	2.526.883
Değirmencik Power Plant	2017	531.160
	2018	543.167
	2019	430.348
Shipyards and Auxiliary Facilities	2017	350.127
	2018	537.561
	2019	460.216
Bekirli Power Plant	2017	2.645.995
	2018	2.337.402
	2019	3.007.282



Amount Of Water Recovered And Reused*	Year	m ³ /year
Steel Plants	2017	358.287.778
	2018	364.335.778
	2019	360.587.655
Shipyards and Auxiliary Facilities	2017	21.701.400
	2018	22.032.000
	2019	22.880.000
Değirmencik Power Plant	2017	55.363
	2018	62.592
	2019	52.993
Bekirli Power Plant	2017	135.315
	2018	135.031
	2019	141.150



* 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 ³ / year)	Year	Wastewater Discharge*	Cooling Water Discharge
Değirmencik Integrated Plant	2017	689.850	434.986.560
	2018	256.838	450.772.080
	2019	229.828	420.924.935
Bekirli Power Plant	2017	133.347	1.071.190.320
	2018	217,447	1.027.048.680
	2019	208.981	1.028.581.315

* 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		2019				
Değirmencik	Unit	Reclaimed	%	Disposed	%	TOTAL
Hazardous Waste	Ton	58.552	%5	2,70	%0	58.555
Non-Hazardous Wastes	Ton	643.485	%57	434.417	%38	1.077.903
Total Waste	Ton	702.038	%62	434.421	%38	1.136.459
Bekirli	Unit	Reclaimed	%	Disposed	%	TOTAL
Hazardous Waste	Ton	28.680	%0,01	3,571	%0	32
Non-Hazardous Wastes	Ton	213.667	%61,08	136.133	%38,91	349.801
Total Waste	Ton	213.696	%61	136,137	%39	349.833

* Waste temporarily stocked in the facility is not included.

Amount of Ship Waste Admitted to the Facilities and Management Thereof

Facility Name	Unit	Reclaimed	%	Disposed	%	TOTAL
Hazardous waste (bilge water, Slach, waste oil)						
Hazardous waste (domestic solid and liquid waste)	m ³ /year	486,5	%100	0	%0	486,5
Bekirli	m ³ /year	0	%0	1.398,4	%100	1.398,4
Hazardous waste (bilge water, Slach, waste oil)						
Hazardous waste (domestic solid and liquid waste)	m ³ /year	107,35	%100	0	%0	107
Hazardous waste (domestic solid and liquid waste)	m ³ /year	0	%0	59,14	%100	59

ECLAIR

Corporate Memberships

- **BİSİAD** - Biga Association of Industrialists and Businessmen
- **BSTP** - Biga Civil Society Platform
- **CARES** - Sustainability Committee
- **Participation on behalf of Turkey in the meetings of the European Standards Committee on construction and prestressed Steels (CEN)**
- **ÇASIAD**
- **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 ' associations
- **İTO** - Istanbul Chamber of Commerce
- **KOSDER** - Koster Shipowners and Operators Association
- **MESS** - Union of Turkish Metal Industrialists
- **MÜSİAD** - Independent Industrialists and Businessmen's Association
- **TÇÜD** - Turkish Steel Producers Association
- **TÇÜD** - Technical Quality Committee
- **TÇÜD Çelik Magazine**, Member of the Editorial Board
- **TMD** - Turkish Miners Association
- **TURMEPA** - Marine Clean Association
- **TSE** - Turkish Standards Institute
- **TOBB** - Union of Chambers and Commodity Exchanges of Turkey

Integrated Management Systems

Management System Standards Documents	Current Facilities	Date
ISO 17025 Laboratory Quality Management System	Environmental Control Laboratory, Fatigue Testing Laboratory	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 Management System	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 Products	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
			Environmental Performance
PS 1	Assessment and Management of Environmental and Social risks and Impacts	Emission Management	65
PS 3	Welding Efficiency and Pollution Prevention	Energy Management	63
		Waste Management	58
PS 6	Biodiversity Conservation and Sustainability Management of Natural Resources	Water Management	60
		Biodiversity Conservation	67
			Social Performance
PS 2	Work and Working Conditions	Occupational Health and Safety	38
PS 4	Public Health, Safety and Security	Emission Management	65
PS 5	Land Expropriation and Forced Resettlement	Relations with the Local Community	43
PS 7	Indigenous Peoples		
PS 8	Cultural Heritage	Our Social Investments	45

GRI CONTENT INDEX

GRI 101: ESSENTIAL 2016		
GRI 102: GENERAL NOTICES 2016		Place of the Description in the Report
Corporate Profile		
102-1	The name of the organization	Tailgate
102-2	Activities, brands, products and services	Page 12 ve 32-33
102-3	Location of the organization's headquarters	İstanbul
102-4	Location/s where the organization's production centers are located	Çanakkale
102-5	Nature of ownership and legal structure	Joint Stock Company
102-6	Markets served	Page 15
102-7	Scale of the organization	Page 13
102-8	Information about employees and other employees	Pages 74-76
102-9	Supply chain	Page 37
102-10	Changes to the organization and supply chain	Page 37
102-11	Principle of prudence	Pages 57-59
102-12	External initiatives	BMKİS
102-13	Corporate memberships	Page 80
Strategy		
102-14	Declaration of the highest decision-making authority	Pages 5-6
102-15	Key crops, risks and opportunities	Page 24
Ethics and integrity		
102-16	Values, principles, standards and norms of behavior	Page 9
102-17	Mechanisms related to ethics	Page 9
Governance		
102-18	Management structure	Pages 18-19
Stakeholder Engagement		
102-40	List of stakeholder groups	Page 20
102-41	Collective bargaining agreements	Page 42
102-42	Determination and selection of stakeholders	Page 18
102-43	Stakeholder engagement approach	Page 20
102-44	Key issues and priorities of stakeholders	Page 21
Reporting		
102-45	All institutions included in consolidated balance sheets or equivalent documents	Tailgate
102-46	Defining report content and subject boundaries	Page 3
102-47	List of priority topics	Pages 18-19
102-48	Recurring information	Ongoing projects
102-49	Changes in reporting	N/A
102-50	The reporting period	Pages 3
102-51	History of the previous report	2018
102-52	Reporting cycle	Pages 3
102-53	Contact information for questions about the report and its contents	Tailgate
102-54	Compatibility option selected according to GRI Standards	Page 3
102-55	GRI content index	Page 82
102-56	External assurance	N/A

GRI 103 MANAGEMENT APPROACHES 2016		Place of the Description in the Report
GRI 200	GRI 200 ECONOMIC STANDARDS SERIES	
	GRI 201 Economic Performance, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Page 30
GRI 300	GRI 300 ENVIRONMENTAL STANDARDS SERIES	
	GRI 302 Energy, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Page 63
	GRI 303 Water, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Pages 60-62
	GRI 304 Biodiversity, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Pages 67-70
	GRI 305 Emissions, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Page 65
	GRI 306 Wastes, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Pages 58-59
GRI 400	GRI 400 SOCIAL STANDARDS SERIES	
	GRI 401 Employment, 2016	
	103-1 Priority issues and boundaries	Pages 27-27
	103-2 Management Approaches and Attachments	Pages 74-76
	GRI 403 Occupational Health and Safety, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Pages 38-39
	GRI 404 Education and Training, 2016	
	103-1 Priority issues and boundaries	Pages 24-27
	103-2 Management Approaches and Attachments	Pages 46-48
	GRI 413 Local Communities, 2016	
	103-1 Priority issues and boundaries	Pages 24-75
103-2 Management Approaches and Attachments	Page 45	

GRI 200-300-400 SUBJECT SPECIFIC STANDARDS 2016		Place of the Description in the Report
GRI 200 ECONOMIC STANDARDS SERIES		
GRI 201 Economic Performance, 2016		
201-1	Economic value created and distributed	Page 74
201-4	Financial support from the state	Page 74
GRI 300 ENVIRONMENTAL STANDARDS SERIES		
GRI 302 Energy, 2016		
302-1	Energy consumed in-house	Page 77
GRI 303 Water, 2016		
303-1	Total water extraction by source	Page 78
303-3	Amount of recycled and reused water	Page 78
GRI 304 Biodiversity, 2016		
304-1	Places of activity in areas with high biodiversity value	Pages 67-70
GRI 305 Emissions, 2016		
305-1	Direct greenhouse gas (GHG) emissions (Scope 1)	Page 65
GRI 306 Wastes, 2016		
306-2	Waste by type and disposal method	Page 79
GRI 400 SOCIAL STANDARDS SERIES		
GRI 401 Employment, 2016		
401-1	Newly hired employees and employee turnover	Pages 74-76
401-2	Ancillary rights not provided to temporary or part-time employees and provided to full-time employees	Page 40
GRI 403 Occupational Health and Safety, 2016		
403-2	Types and rates of injuries, occupational diseases, lost days, absenteeism and number of work-related deaths	Page 76
GRI 404 Education and Training, 2016		
404-1	Average annual training hours per employee	Page 76
GRI 413 Local Communities, 2016		
413-1	Operations involving local community engagement, impact analysis and development programs	Pages 45-48

Our Contact Information

İÇDAŞ ÇELİK ENERJİ TERSANE VE ULAŞIM SANAYİ A.Ş.

Mahmutbey Mahallesi, Dilmenler Caddesi No:20 34212 Bağcılar/İstanbul - Turkey

Phone: +90 (212) 604 04 04

İÇDAŞ ENVIRONMENTAL MANAGEMENT UNIT

Phone: 90 (286) 395 10 10 | icdas@icdas.com.tr

(GRI 102-45)



İÇDAŞ ÇELİK ENERJİ TERSANE VE ULAŞIM SAN. A.Ş.

Mahmutbey Mahallesi, Dilmenler Caddesi No:20 34212 Bağcılar/İstanbul - Turkey

Phone: +90 (212) 604 04 04

İÇDAŞ ENVIRONMENTAL MANAGEMENT UNIT

Phone: +90 (286) 395 10 10



icdas.com.tr



icdas@icdas.com.tr