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			EDOPEC ENERJİ PETROL MÜHENDİSLİK SANAYİİ VE TİCARET LİMİTED ŞİRKETİ										
			Document Title EDOPEC COMPANY PROFILE										
<b>Head Office :</b> Palmiye Mah. 1219 Sk. Gürarlan Apt. No:15 Kat:2 D:6 PK-33110 Yenişehir -Mersin –Turkey P:+90 324 3260595 F:+90 324 3260596 <a href="http://www.edopec.com">www.edopec.com</a> <a href="mailto:info@edopec.com">info@edopec.com</a>			Document No.										
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## ABOUT US

**Edopec.** has provided technical engineering services to facility owners and managers for over five years. **We provide Process know-how in the field of Petroleum , Alcohol, Sugar Oil-Chemicals, Petrochemicals, Bio-Chemicals.**

Our company comprises diverse group of Engineers and Consulting Engineers, available to supply comprehensive staffing for each project.

**Edopec.** is managed by highly experienced technocrats having extensive experience in the core industry & has established a strong foundation to meet requirements & challenges for Art Technology products & Services.

Since its inception Edopec has executed successfully various critical and high valued contracts in Turkey. We have gained significant experience and exposure in Turkey, all possible due to in-house strength of technically qualified personnel combined with Computer Aided Design facilities for Petroleum Tank Farm and petroleum facilities..

**Edopec.** is a global engineering and construction contractor and power equipment supplier, with a reputation for delivering high quality, technically-advanced, reliable facilities and equipment on time, on budget and with a world-class safety record.

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## WORK TYPE

The Contracting Group provides commercial, contracts, procurement and management expertise for undertaking EPC/ EPIC contracts in conjunction with engineering teams provided through the Engineering Projects Group. The Contracting Group also provides procurement services and construction supervision as services to clients in conjunction with engineering projects if required.

- Civil Works
- Architectural Works planing
- Piping and Petroleum Facilities
- Corrosion Engineering Works
- Pressure Vessel's

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## EPC TYPE WORKS

Engineer Procure Construct (EPC) or Engineer Procure Install Commission (EPIC) contracts are widely selected as the preferred contracting strategy by clients for pipeline and facilities projects. EPC/ EPIC contracts provide a single point responsibility for all aspects of the project and enable close coordination between engineering design, procurement and construction activities.

The EPC/ EPIC scope of work will generally be tendered following completion of the Front End Engineering Design package for the project. The EPC/ EPIC scope will then include the development of the FEED into a full detailed engineering design prior to procurement of materials and construction.

SRD Edopec Contracting will take on, or share, procurement and construction risk in EPC / EPIC projects.

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## EP TYPE WORK 'S

Edopec has a dedicated procurement department which undertakes procurement and purchasing of equipment and materials for projects. Procurement is undertaken for Edopec EPC contracts and procurement services are also provided to clients for their own purchasing, usually in conjunction with engineering contracts.

Procurement activities coordinate closely with the Engineering Projects Group which will prepare the technical documents defining the scope of each purchase order. The purchasing party will generally provide the commercial documentation defining terms and conditions to apply.

Procurement services may include any or all of the following:

- Assistance in budget pricing of materials during preliminary engineering studies
- Vetting and approval of potential suppliers and manufacturers
- Preparation of project vendor lists
- Preparation of RFQ packages
- Coordination of quotation evaluations
- Placement of purchase orders
- Purchase order administration
- Vendor inspection
- Shipping and transport to site
- Expediting
- Close out documentation

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## ENGINEERING SERVICES

The engineering and design will be performed in accordance with systematic and proven techniques of integrated engineering principles by a matrix type Project Management organization.

The engineering activities will cover performance of design in:

- Building project design and construction
- Architectural design and planning
- Process
- Project
- Piping
- Pressure Vessel's Design
- Technological (heat transfer, vessels & material)
- Instrument & Automation
- Civil
- Electrical



Storage Tank Facilities Design

Project:	EDOPEC ENERJİ PETROL MÜHENDİSLİK SANAYİİ VE TİCARET LİMİTED ŞİRKETİ	Proj. Identification:	
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Offshore Facilities Design



Pressure Vessels and Piping Design

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## QA-HSE POLICY

The objectives which underpin the policy are:

1. To develop a full understanding of the needs of our customers.
2. To work in close co-operation with clients, customers, suppliers and sub-contractors to provide the right quality work and service, first time.
3. Actively to seek customer feedback and to use this as a format for continuous assessment and improvement.
4. To develop the potential of our employees to ensure all members of staff are capable of undertaking work required in a safe and responsible manner, in accordance with the Company's Health and Safety and Environmental policies.

Achievement of these policy aims involves all staff, who are individually responsible for the quality of their work, resulting in a continually improving working environment for all.

Edopec commercial services is fully committed to delivering the objectives of this quality policy statement within all its activities and work undertaken by the Company.

Edopec commercial services has implemented a management structure that is based on the quality and commitment of its professional and experienced management and construction staff.

Our Commercial Director has a specific responsibility for ensuring that the management structure reflects the quality standard, so that compliance with this Quality Policy is maintained and improved.

We are continually developing the Company's operation and upgrading of IT systems and invest to a high degree in staff training to professional level.

Edopec commercial services' approach is to listen to our clients and customers and to openly discuss the individual requirements of every contract, thus ensuring that our clients remain fully satisfied with our service delivery.

With each project we undertake, a Quality Plan is implemented, encompassing control measures that ensure the client's requirements are met, within the specified time, and in line with the budget. To this end, we Endeavour to work as a committed team in a spirit of co-operation with the client and their customers.

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Edopec commercial services' management and supervisory staff has the authority to make decisions, within the scope of their responsibilities, and is charged with working in accordance with the documented procedures.

Edopec commercial services' objectives are:

- To continue to meet in full the requirements of the client.
- To reduce waste and loss.
- To carry out all our activities within our environmental policy guidelines, thus helping to ensure a sustainable environment for the benefit of the community.
- To continually identify improvements to existing working practices.

In order for Edopec commercial services to achieve the above objectives, every employee and sub-contractor must:

- understand customer and client needs.
- be responsible and accountable for the quality of work.

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## COMMERCIAL DESCRIPTION

Foundation Years : 10.03.2012  
At Registered : Mersin Commercial Chamber  
Registration number :28/2306  
Total Capital :1.000.000 YTL(One million TL Lira)  
approximately=490.000€)  
Total Workers : 32 Person (Staff and Management )  
Annual Torn Over last 3 year :15.000.000 YTL (8.000.000 USD) :

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## KEY PERSONELS

CLASSIFICATION	MANAGEMENT	DESIGN-MAN	CONSTRUCTION-TEMPORARY
MANAGERS	1	1	2
ENGINEERS-ARCHITECT	5	4	3
TECHNICIANS	4	6	14
OTHERS-WORKERS	4	7	183
TOTAL	14	18	202

## CORROSION SURVEY EQUIPMENT

NO	Equipment Description	Specification	NOS
1	Power systems Simulator		1 Set
2	Analog Systems Development Tools		2 Set
3	IP Testing Equipments		1 Set
4	Coating/ Painting Inspection and Test equipments	Suitable for both of Ferro & none Ferro Metals	1 Set
5	Digital Systems Development Tools		1 Set
6	Data Communication Development Set		1 Set
7	Cathodic Protection and Earthing Systems Test and Survey Equipments		2 Set
8	DCVG/ CIPS and Coating Survey equipments		1 Set
9	Cathodic Protection and Installation Equipments	Various Installation equipments and concrete dies	2 Set
10	Resistivity, pH, Insulation, Flange and Power measurements equipments		6 Sets
11	Other Laboratory Equipments	Various Test and control Gauges and equipments	5 Set
12	Earth Tunnel Boring machine	Up-to 12" angular and Horizontal drilling	1 Set
13	Pin Brazing Machine	Up to M8	1 Unit
14	PP Splicing machine	Up to 2 Inch	2 Sets
15	Meggerw Soil Resistivity Equipment	100- 10000 Ohm.com	2 set

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## OFFICE EQUIPMENTS

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#### Number and Type of Computers (Desktop / Notebook) and Auxiliary Equipments

- ☐ Desktop Computer: 10
- ☐ Notebook Computer: 7
- ☐ Printer: 4
- ☐ Scanners: 2
- ☐ Copiers: 2
- ☐ Servers: 2

#### List of Software Used in the Company

- ☐ MS Project: 2007
- ☐ PV Elite - 2008
- ☐ AutoCAD . 2008
- ☐ Sunrise systems pipenet vision
- ☐ Bentley\_AutoPipe
- ☐ Portable\_SpinFire\_Professional\_8.3

#### Route Survey Equipment

Nivo, Mira

### WELDING EQUIPMENTS

NO	MATERIALS and SPECIFICATIONS	QUANTITY	UNIT
1	Shielded Metal Arc Welding Machines and equipments	17	item
2	Gas Tungsten Arc Welding Machines and equipments	4	item
3	Gas Metal Arc Welding Machines and equipment	3	item
4	Submerged Arc Welding Machines and equipments	2	item
5	Bag Type Welding Machine (220 V)	6	item
6	Automatic Welding System	2	item
7	Tank Welder	2	item
8	Automatic Welding Manipulator	1	item
9	Vertical Machining Center	2	item
10	Electrical Furnace for Electrode	4	item
11	Welding Cart	8	item

### PLATE BENDING EQUIPMENTS

MATERIALS AND SPECIFICATIONS	QUANTITY	PLATE THICKNESS	PLATE DIAMETER
Plate Bending Cylinder	1	0 mm to 35 mm	Min. 508 mm
Plate Bending Cylinder	1	0 mm to 20 mm	Min.3000 mm
Plate Cutting Machine	3	0 mm to 6 mm	-
Plate Folding Machines	5	0 mm to 6 mm	-

### HARDNESS & THICKNESS MEASURING EQUIPMENT LIST

NO	EQUIPMENT	Producer Name	MODEL	CALIBRATION T.	SERIAL NO
1	Paint Thickness Measuring Eqp.	Automation			
2	Thickness Control Eqp.	Sonatest			
3	Paint Thickness Measuring Eqp.	Sadt			
4	Thickness Control Eqp.	Time			
5	Hardness Measuring Eqp.	Gauss			
6	Hardness Measuring Eqp.	Goldilux			
7	Magnetical Region Measuring Eqp.	Goldilux			
8	Lightmeter	Automation			

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MANUFACTURING EQUIPMENTS		
NO	DESCRIPTION	QUANTITY
1	Concrete Cutting Machine	2
2	Portable Crane (5 tons- h:6 mt.)	3
3	Fork Lift	1
4	Cylinder	2
5	Turn Bench	2
6	Compressor (8 bar)	1
7	Compressor	1
8	Compressor	2
9	Container (7x3x2,6) mt	4
10	Container (6x 2,4x2,6) mt	2
11	Container (2,45x 4,5x 2,6) mt	1
12	Sandblasting Boiler	4
13	Air Tank	3
14	Electrode Drying Furnace 380 W	5
15	Bar Machine ( 200 bars)	2
16	Bar Machine ( 150 bars)	1
17	Cricoid ( 10 tons)	3
18	Cricoid ( 5 tons )	4
19	Bosch Breaker	2
20	Chain 2 tons)	6
22	Magnetical Drill	2
23	Cars	4
24	Luxus Cars	2
24	Container	9

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## OUR FACILITIES AND OFFICE

### Head office

Palmiye Mah.1219 Sok. Gürarslan Apt. NO:15 Kat: D:6 PK:33100 -Yenişehir-Mersin -TURKEY  
P:+90 324 3260595  
F:+90 324 3260596

**For Information** e-mail to : [info@edopec.com](mailto:info@edopec.com)

**For Quotation** e-mail to : [sales@edopec.com](mailto:sales@edopec.com)

**For Technical details** e-mail to : [tech@edopec.com](mailto:tech@edopec.com)

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# COMPANY BROCHURE

[www.edopec.com](http://www.edopec.com)

2025

*Engineering Design For Oil & Petroleum Co.*

### About Edopec International

EDOPEC Internatioanl Engineering Design For Oil & Petroleum Company is a globally recognized EPC (Engineering, Procurement, and Construction) company specializing in comprehensive solutions for the oil and gas industry. With over 22 years of expertise, Edopec delivers tailored engineering, procurement, and construction services that address the specific challenges of midstream and downstream operations. The company's expertise includes designing and constructing industrial plants, oil and gas storage facilities, transportation systems, process piping, and advanced loading and unloading terminals. Edopec's commitment to innovation, compliance with international standards, and adaptability to industry trends ensures it remains a trusted partner for delivering high-quality, sustainable solutions.

Edopec prioritizes ethical practices, sustainability, and safety, fostering a culture of transparency and accountability. By leveraging cutting-edge technology and adhering to rigorous global standards, the company consistently exceeds client expectations. Its global presence and proven track record underscore its ability to manage diverse and complex projects while maintaining excellence in execution.



## Mission

To provide innovative, sustainable, and high-quality engineering solutions that meet the evolving demands of the petrochemical and energy industries. Edopec is committed to delivering value-driven results while ensuring safety, environmental responsibility, and long-term client satisfaction.

## Vision

To be a globally recognized leader in the EPC sector, revolutionizing energy infrastructure with cutting-edge technology, sustainable practices, and a relentless pursuit of excellence. Edopec aspires to set new benchmarks while contributing to a cleaner, more efficient energy future.

## Introduction

Edopec International is a premier global EPC company with a distinguished reputation in the oil and gas industry. For over two decades, the company has consistently delivered tailored engineering solutions that address the dynamic needs of its clients. Specializing in midstream and downstream operations, Edopec excels in designing, constructing, and managing complex industrial facilities.

## Core Specializations

- **Oil and Gas Storage Solutions:** From conceptual design to commissioning, Edopec provides bespoke storage systems for crude oil, refined products, and LPG/LNG, ensuring operational efficiency and compliance.
- **Transportation Infrastructure:** Developing pipelines, loading/unloading terminals, and process piping systems to streamline hydrocarbon and petrochemical transport.
- **Integrated Automation Systems:** Implementing SCADA and PLC systems for enhanced monitoring, safety, and productivity.



## EDOPEC COMPANY BROCHURE

By integrating advanced tools like 3D modeling, digital twins, and simulation technologies, Edopec empowers clients to visualize and optimize projects before implementation. The company's focus on energy efficiency and sustainability ensures it remains a trusted partner for future-ready solutions.



### Excellence in Execution

Edopec's approach to project delivery emphasizes a deep understanding of client objectives, industry standards, and environmental considerations. Key offerings include:

- **Feasibility Studies:** In-depth analyses to evaluate project viability and propose effective solutions.
- **Custom Engineering Designs:** Precise and efficient designs aligned with global standards (API, ASME, NFPA).
- **Turnkey Project Delivery:** Seamless management from inception to completion.
- **Sustainability and Safety:** Advanced practices and technologies ensuring environmental protection and operational safety.

## Global Reach and Local Expertise

Edopec's successful execution of projects across continents demonstrates its adaptability to diverse regulatory environments and cultural contexts. Leveraging a network of global offices and local partnerships, Edopec ensures efficient project management and cost optimization while adhering to regional standards.



## SAMPLE PROJECTS

### Middle East

- **Khurmala Crude Oil Storage Facility, Iraq:** EPC of a 25,000 m<sup>3</sup> crude oil storage tank, completed within stringent timelines.
- **Shaikan Early Production Facilities, Iraq:** Design and engineering of crude oil processing facilities, enhancing regional production.



### Europe

- **Sabiha Gökçen International Airport, Turkey:** Expansion of jet fuel hydrant systems and storage tanks to meet growing fuel demands.
- **Mersin Petroleum Storage Terminal, Turkey:** Construction of a 50,000 m<sup>3</sup> petroleum storage facility with advanced safety features.



### Asia

- **Turkmenbashi International Airport, Turkmenistan:** Design and installation of jet fuel storage systems and firefighting infrastructure.
- **VIP Yacht Marina Cathodic Protection, Turkmenistan:** Implementation of cathodic protection systems to extend infrastructure lifespan.
- **Astana International Airport, Kazakhstan:** Construction of 3 x 3,000 m<sup>3</sup> jet fuel storage tanks, enhancing aviation logistics.



### Africa

- **Harouge Oil Operations Crude Storage, Libya:** Rehabilitation of a 500,000 BBL crude oil tank, including structural upgrades.
- **Freetown International Airport Fuel Facilities, Sierra Leone:** EPC services for jet fuel storage, supporting regional connectivity.



## Why Edopec?

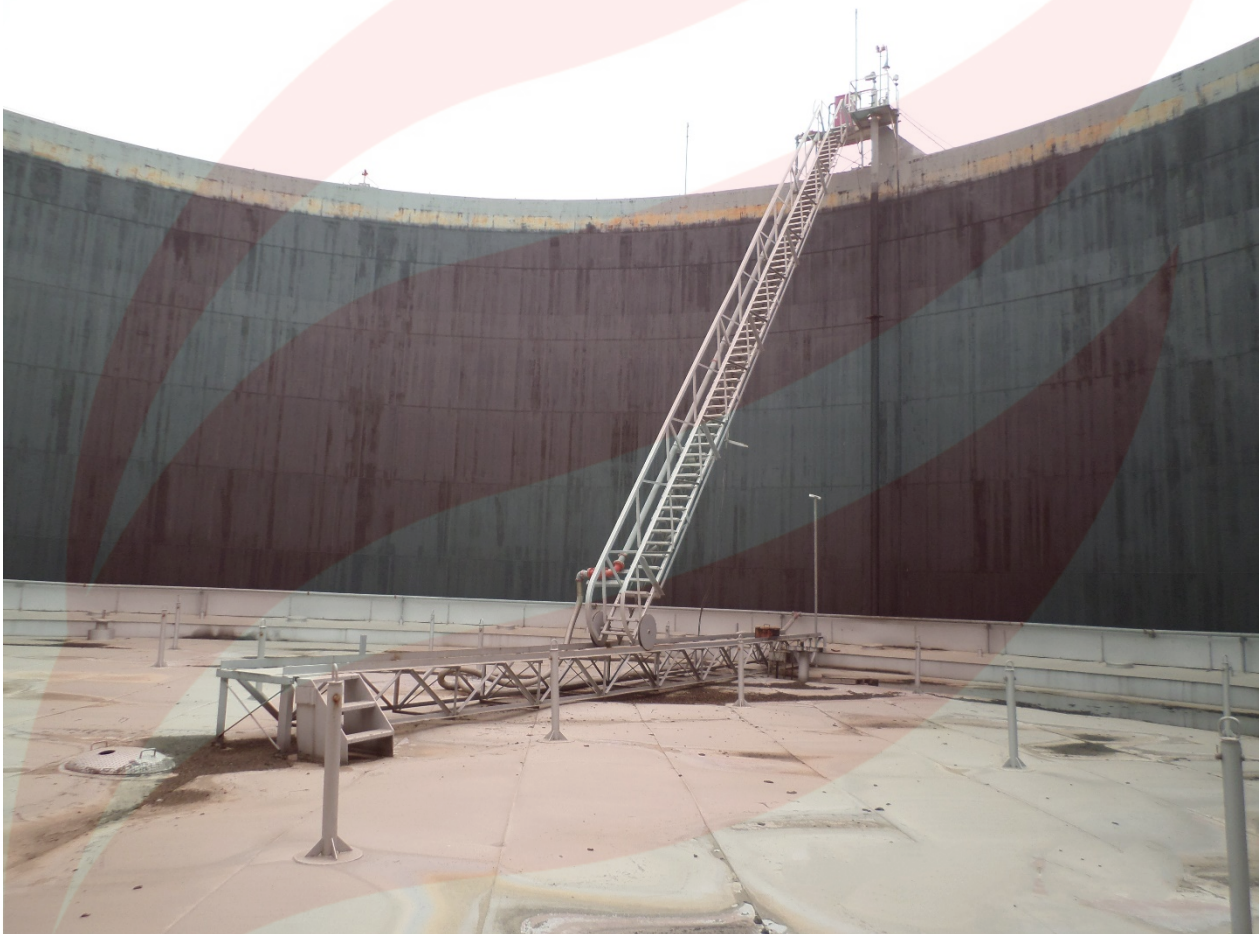
Edopec integrates cutting-edge technology with a deep understanding of industry needs, delivering solutions designed for scalability and environmental compatibility. Core strengths include:

- **Engineering and Design:** Advanced, tailored approaches to address unique project requirements.
- **Storage Solutions:** Expertise in tank farm design, construction, and LPG/LNG storage pressure vessels.



## EDOPEC COMPANY BROCHURE

- **Pipeline Systems:** Reliable and efficient transportation solutions for oil and gas.
- **Cathodic Protection:** Extending the longevity of infrastructure with advanced corrosion prevention techniques.
- **Firefighting Systems:** State-of-the-art systems ensuring industrial safety.
- **Jet Fuel Systems:** Comprehensive aviation fuel storage, transfer, and distribution expertise.



## EDOPEC COMPANY BROCHURE

- **Process Piping:** Innovative and precise designs for industrial processes.
- **Loading and Unloading Terminals:** Efficient and precise systems for multiple transport modes.
- **Metering Systems:** Accurate and reliable measurement solutions for oil and gas operations.
- **Tank Cleaning Services:** Ensuring optimal performance and compliance of storage systems through advanced cleaning solutions.





### Contact Information

- **United Kingdom:** 132 Morningside Road, Edinburgh, United Kingdom, EH10 4BX
  - Phone: +44 73888 31761
  - Email: [info@edopec.com](mailto:info@edopec.com)
- **Turkey:** Palmiye Mah. 1219 Sokak Gürarşlan Apt. (Kapı No: 15) Kat: 2 No: 6, Yenışehir, Mersin, Turkey
  - Phone: +90 324 326 05 95 / +90 324 326 05 96
  - Email: [info@edopec.com](mailto:info@edopec.com)

Edopec International remains committed to excellence, sustainability, and innovation, ensuring every project delivers measurable benefits and exceeds expectations. Contact us to discuss your next project and discover how Edopec can help achieve your goals.









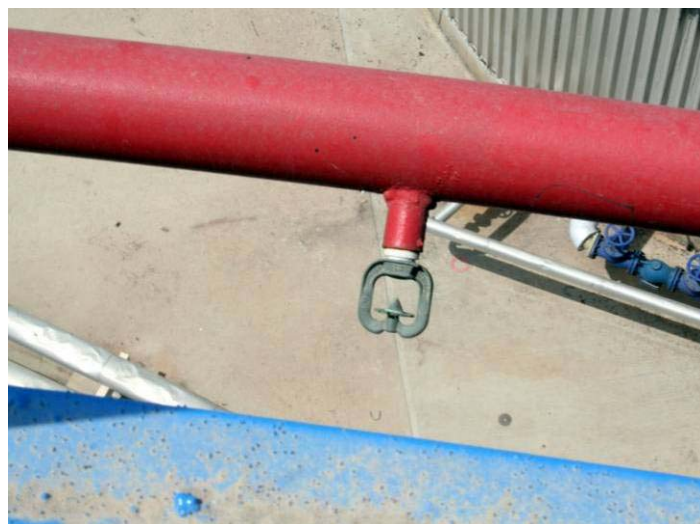


## PICTURE OUR FIRE FIGHTING PROJECT

Project:	EDOPEC ENERJİ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ	Proj. Identification:	
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Revision:	0	Date:	02.04.2013

Project Name	TEKZİM STORAGE TANK FIRE FIGTING SYSTEM		
Customer	TEZKİM TARIM A.Ş		
Start Date	03.04.2011		
Finish Date	03.02.2011		
Project Description	Storage Tank Facilities: Fire Fighting Design , Automatic Fire Alarm System Installation , Equipment : Foam Equipment, Pump, Sprinkler Nozle , Termo Couples,		
PHOTO'S			
			
Cooling Line	Sprink Nozzle pipe	Deluge Valve installation	Piping
			
Sprinkler Nozle Installation	Deluge Valve installation	Deluge Valve installation	Cooling Pipe on Roof









Project:	EDOPEC ENERJİ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ	Proj. Identification:	
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Revision:	0	Date:	02.04.2013



Project Name	ALPET MERSİN FIRE FIGTING SYSTEM		
Customer	ALPET PETROL A.Ş		
Start Date	03.01.2011		
Finish Date	03.03.2011		
Project Description	Storage Tank Facilities: Fire Fighting Design , Automatic Fire Alarm System Installation , Equipment : Foam Equipment, Pump, Sprinkler Nozle , Termo Couples, Foam Guns , Fire		
PHOTO'S			
			
Fire Fighting Piping General Layout	Fire Fightin Valve Chamber	Foam Guns	Foam Chamber
			
Sprinkler Nozle Installation	Tank Roof	General Layout	Cooling Pipe on Roof

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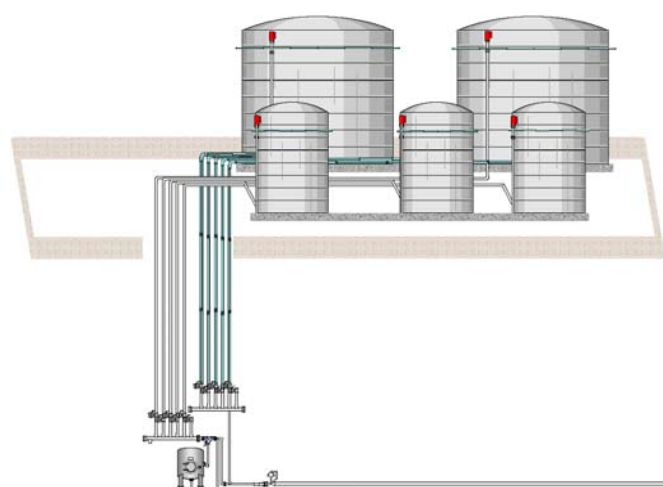


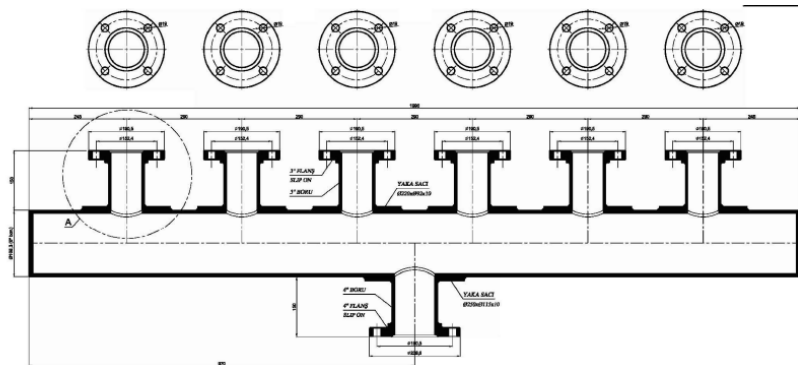



Customer	ENERJİ PETROL MERSİN TANK FACILITIES		
Start Date	03.02.2012		
Finish Date	03.09.2012		
Project Description	Storage Tank Facilities: Fire Fighting Design , Automatic Fire Alarm System Installation , Equipment : Foam Equipment, Pump, Sprinkler Nozle , Termo Couples, Foam Guns , Fire		
PHOTO'S			
			
Fire Fighting Piping General Layout	Fire Fightin Valve Chamber	Fire Fightin Valve Chamber	Bladder Tanks
			
Loading area foam nozzle	Foam Guns	Foam and Cooling Line's	On Test Time



Project Name	TEKZİM STORAGE TANK FIRE FIGTING SYSTEM		
Customer	TEZKİM TARIM A.Ş		
Start Date	03.04.2013		
Finish Date	03.02.2013		
Project Description	Storage Tank Facilities: Fire Fighting Design , Automatic Fire Alarm System Installation , Equipment : Foam Equipment, Pump, Sprinkler Nozle , Termo Couples,		
PHOTO'S			
			
Cooling Line	Sprink Nozzle pipe	Deluge Valve installation	Piping
			
Sprinkler Nozle Installation	Deluge Valve installation	Deluge Valve installation	Cooling Pipe on Roof

Project:	EDOPEC ENERJİ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ	Proj. Identification:	
Document Title:	FIRE FIGTING PROJECT PICTURE AND DETAIL	Document No.:	EDO-BRO-GEN-GNR-INT-XXX-013-024-025-REV-A-FIRE FIGTING PROJECT PICTURE AND DETAIL
Revision:	0	Date:	02.04.2013



Project Name	TEZKİM ADANA METONHOL STORAGE TANK FACILITIES FIRE FIGTHING SYSTEM		
Customer	TEZKİM TARIM A.Ş		
Start Date	03.05.2012		
Finish Date	01.06.2013		
Project Description	Storage Tank Facilities: Fire Fighting Design , Automatic Fire Alarm System Installation , Equipment : Foam Equipment, Pump, Sprinkler Nozle , Termo Couples,		
PHOTO'S			
			
Bladder Tanks	Fire Fightin General Drawing	Portable Foam Guns	General Wiev Sorage Tank Facilities
			
Fire Fighting Collectors Detail	Portable Foam Guns	General Layaout	Testing

<b>Project Name</b>	<b>İSKEN STORAGE TANK FACILITIES FIRE FIGTHING SYSTEM-ADANA</b>
<b>Customer</b>	<b>BEKA MÜHENDİSLİK LTD.TŞİ</b>
<b>Start Date</b>	<b>03.05.2012</b>
<b>Finish Date</b>	<b>01.01.2013</b>
<b>Project Description</b>	Storage Tank Facilities: Fire Fighting Design , Automatic Fire Alarm System Installation , Equipment : Foam Equipment, Pump, Sprinkler Nozle , Termo Couples, Fuel storage tank foam discharge system Fuel storage tank cooling systemOverflow pool protection system

Project:

Document Title:

Revision:

EDOPEC ENERJİ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ

FIRE FIGTING PROJECT PICTURE AND DETAIL


0     Date: 02.04.2013

Proj. Identification:

Document No.:

EDO-BRO-GEN-GNR-INT-XXX-013-024-025-REV-A-FIRE FIGTING PROJECT PICTURE AND DETAIL



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			Document Title <b>CAPACITIES AND CAPABILITIES FOR CATHODIC PROTECTION SYSTEMS</b>							
<b>Head Office :</b> Palmiye Mah. 1219 Sk. Gürarşlan Apt. (Kapı No:15) Kat:2 D:6 PK- 33110 Yenisehir –Mersin –Turkey P:+90 324 3260595 F:+90 324 3260596 <a href="http://www.edopec.com">www.edopec.com</a> <a href="mailto:info@edopec.com">info@edopec.com</a>			Document No.							
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## 1. ORGANIZATION

Edopec Corrosion divisions. is organized with a vision of providing engineering services and manufacturing for Authorities and Clients located in Turkey , Iran , irak Syria and Middle-east.-Libya ,Türkmenistan,

Our focus is on complete Cathodic Protection services including all of the Consultation, Survey, Design, production and installation related work for On-shore & Off-shore facilities, Off-shore & Marine inspection and Industrial Automation for:

- Oil and Gas Industries (offshore & onshore)
- Petrochemical industry
- Energy
- Cement industry

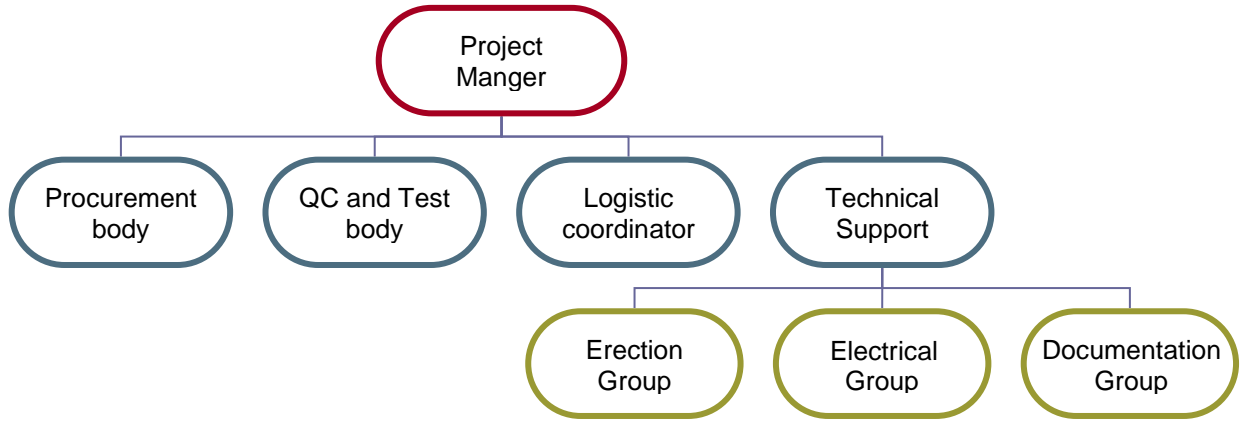
Edopec Industries Co. carries out its business under five separate functional divisions as follows;

- Engineering Design and R&D
- Manufacturing and Fabrication
- Installation, Commissioning and Maintenance
- Strategic Planning and Project Control
- Financial and Commercial

**EDOPEC Co.** is a Company having a powerful blend of management experience, young and dynamics and technical expertise. Each Purchase order or Work order is considered as a separated project and required team is organized to undertake assigned Project manager to conduct the relevant steps of Procurements, Quality Control, fabrication/erection/commissioning along logistics and documents.

We continuously strive to perform all of our projects with the best quality to satisfy clients' needs, using the qualified engineers and specialists. We realized that our success is largely dependent upon customer satisfactions witch is directly involved within each member products and managed projects.

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## 2. PROJECT ACTIVITIES

ACTIVITY	DETAILS
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Project:	EDOPEC ENERJİ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ	Proj. Identification:	
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ENGINEERING & DESIGN	<p><b>Direct Assessments Services;</b></p> <p>Soil Resistivity Survey, CAT (Current Attenuation Test) Survey, DCVG (Direct Current Voltage/Gradient) Survey, Current Requirement/Drainage Survey, CIPS (Close Interval Potential) Survey, Stray Current Interference Survey, Polarization and On/Off Potential Survey, Coating Resistance Survey, Anode bed Resistance Survey, Buried Structures Natural Potential Survey, Overhead line Effect on Buried Structures Survey, (SRB) Sulphur Reduced Bacteria Survey, pH Survey, Carbonate And Sulphate Ions Survey, Grounding System Resistance Survey, Internal Cathodic Protection and microbial corrosion monitoring and inspections.</p> <p><b>Engineering Design;</b></p> <p>Basic &amp; Detailed Design of Cathodic Protection systems for Pipelines, Tank Forms, Petro-Chemical Plates, Power Plants, vessels, harbors, Jetties, offshore and marine structures by both means of SACP and ICCP system (where applicable) Design of SCADA based ICCP systems, Design of Stray Current and AC mitigation Systems.</p> <p><b>Materials/Equipment Design;</b></p> <p>Design and development of various types of CP Trans/rectifier Units, Design and development of Special Power Supply units, Design and development of RRU systems ( Remote Rectifier Units), Design and development of RMU systems ( Remote Monitoring Units), Design and development CP Remote Monitoring and Control systems. Design and development of GPS synchronized On/Off control of T/R units, Design and Development of Current Control boxes, Sacrificial anode design.</p>
PROJECT MANAGEMENT	<p>Project management of SCADA based ICCP systems, Project management of ICCP and SACP systems, Project management of Local Cathodic Protection of Oil and Gas and Energy Facilities.</p>

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COMMISSIONING & START UP	Deepwell and shallow groundbed installations, ICCP systems for Pipelines and Storage Tanks, ICCP systems for Congested area and Tank Farms, SACP installation for interior surfaces of storage tanks, SCADA based Cathodic Protection systems, CP Remote monitoring and Control systems, Galvanic CP and ICCP systems for Pipelines, Storage Tanks and Tank Farms, CP systems for Marine Structures and Offshore Pipelines, Galvanic CP and ICCP systems for Ships, Vessel, Jetties and Piers, Internal Galvanic CP and ICCP systems for Water Tanks and Boilers, Galvanic CP and ICCP systems for Reinforcing steel in Concrete Structures, SCADA communication systems (Wireless, Satellite, GSM, Fiber Optics) , Installation and replace of permanent reference electrodes under the tank bottom plate for further potential monitoring proposes via. horizontal drilling technology.
EQUIPMENT MANUFACTURE	Fabrication and production of TR units ICCP anodes, Sacrificial anodes, current control and junction boxes, Coupons and reference electrodes.

### 3. PRODUCTION AND SALES CAPACITY


#### CAPACITY

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Item	Product	Annual Capacity	Totally Supplied	M/S Starting	Standards	Details
1	Transformer Rectifier Units	50 Units	150 Units	2014	IEC, BS, EN, IPS	As per enclosed catalogues and details
2	Test, Junction, Bond Boxes	2000 Nos.	4,500 Nos.	2018	IEC, BS, EN, IPS	
3	Current Control and Compensation Boxes	500 Units	800 Units	2016	IEC, BS, EN, IPS	
4	Reference electrodes and coupons	500 Nos.	800 Nos.	2016	IEC, BS, NACE	
5	Cables and connections	Unlimited	150,000 M	2015	IEC, EN, NACE	
6	Remote Monitoring System& Software	3 Project	3 Projects	2016	IEEE, IEC, NACE	
7	MMO coated Ti anodes	1200 Nos	3,000 Nos.	2016	ASTM, NACE	
8	Silicon Iron Chromium Anodes	100 MTons	N/A	2014	ASTM, BS, NACE	
9	Magnesium anodes	200 MTons	100 MTons	2019	ASTM, NACE, NES, IPS	
10	Zn Anodes	200 MTons	200 MTons	2017	ASTM, NACE, NES, IPS	
11	Al Anodes	300 MTons	150 Tons	2017	ASTM, NACE, ISO, NES, IPS	
12	Backfill Materials	1000 MTons	150MTons	2017	ASTM, NACE, IPS	
13	Miscellaneous	Outsourced	250 Lots	2015	ASTM, IEC, BS, NACE, DIN, IPS	

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## 1. MAJOR CP SERVICES OF EDOPEC

- SITE SURVEYS & INSPECTIONS SERVICES
- ENGINEERING DESIGN, PLANNING AND R&D SERVICES
- INSTALLATION AND COMMISSIONING SERVICES
- BACK-UP SERVICES
- TRAINING

### SITE SURVEYS & INSPECTIONS SERVICES

Site surveys are undertaken to evaluate the corrosion behaviour of different environments, Cathodic Protection monitoring, underwater inspection of structures, anodes, and coatings , Earthing and lightning activities by means of soil, water, location, stray current and so on testing.

Edopec. undertakes the following surveys and inspections

#### Soil Resistivity Survey

- CAT (Current Attenuation Test) Survey
- DCVG (Direct Current Voltage/Gradient) Survey
- Current Requirement/Drainage Survey
- CIPS (Close Interval Potential) Survey
- Stray Current Interference Survey
- Polarization and On/Off Potential Survey
- Coating Resistance Survey
- Anode bed Resistance Survey
- Buried Structures Natural Potential Survey
- Overhead line Effect on Buried Structures Survey
- (SRB) Sulphur Reduced Bacteria Survey
- pH Survey
- Carbonate And Sulphate Ions Survey
- Grounding System Resistance Survey
- Contact Voltage (Touch and Step Voltages) Survey
- Lightning Protection Installation Survey
- Lightning Protection Level Survey
- Internal Cathodic Protection and microbial corrosion monitoring and inspections.



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Potential Profile, Current Distribution Survey of Power Plants, Take-off yards and substations



- Sub-sea Platform inspection for maximum deep of 40 meters including repair, wet welding, cutting, anode inspection ( Cleaning, montage, re-montage, photography)and NDT tests (MPI, FMD, Thickness testes)
- Sub-sea Pipeline inspection for maximum deep of 40 meters including coating and concrete repairs, anode installations, TP potential reading, span installation, wet welding, cutting, anode inspection (Cleaning, montage, re- montage, photography)
- Marine Services and anode installations. including ship, vessel, jetty and piers Offshore Platform, jetty, pier and pipeline Cathodic Protection Surveys
- Offshore Platform, jetty, pier and pipeline Cathodic Protection, anodes and coating Inspections



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## 2. INSTALLATION AND COMMISSIONING SERVICES

Edopec . have ability to provide installation and commissioning services for the following projects and systems relevant to Oil & Gas and Energy Industries.

- Deepwell and shallow groundbed installations
- ICCP systems for Pipelines and Storage Tanks
- ICCP systems for Congested area and Tank Farms
- Galvanic CP installation for interior surfaces of storage tanks
- SCADA based Cathodic Protection systems
- CP Remote monitoring and Control systems
- Galvanic CP and ICCP systems for Pipelines, Storage Tanks and Tank Farms
- CP systems for Marine Structures and Offshore Pipelines
- Galvanic CP and ICCP systems for Ships, Vessel, Jetties and Piers
- Internal Galvanic CP and ICCP systems for Water Tanks and Boilers
- Galvanic CP and ICCP systems for Reinforcing steel in Concrete Structures
- SCADA communication systems (Wireless, Satellite, GSM, Fiber Optics)
- Industrial Automation Systems for Petro-Chemical, Energy and Cement Industries
- Complete Crude and Products Storage Tanks Installations (With cooperation of JALKEH PJS Co. )
- Crude Oil and Petro-chemical Storage Tanks Safety and Protection Instruments (With cooperation of JALKEH PJS Co. )
- Ribbon anode installation for new constructed storage tanks
- ICCP system for existing tanks using horizontal drilling technology.



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- Installation and replace of permanent reference electrodes under the tank bottom plate for further potential monitoring proposes via. horizontal drilling technology.

### 3. BACK-UP SERVICES

4. EDOPEC . maintains close contact with the market so that it can tailor its product offering to the needs of the clients. The considerable experience has ensured that the Company can provide complete back-up services from initial design to final commissioning and maintenance. The aim is to give customers an efficient, professional service of the highest quality. Comprehensive range of maintenance and support services provides a further level of back up, as appropriate.

### 5. TRAINING

Operator and maintenance training can be tailored to meet customer needs and EDOPEC

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## 6. ENGINEERING DESIGN, PLANNING AND R&D SERVICES

The engineering and design phase is one of the key processes during the project execution stage. **EDOPEC** Currently has a core staff of several engineers. All of these have been selected because of their unique alternative experience.

We are more than able to provide our clients with the project teams to meet the challenges presented by mature fields.

Advantages have been successfully involved in almost every advanced engineering project carried out in Armin Industries Co.. Clients have recognised, through the provision of project services, Armin's ability to efficiently provide their requirements.

- Basic & Detailed Design of Cathodic Protection systems for Pipelines, Tank Forms, Petro-Chemical Plates, Power Plants, vessels, harbours, Jetties, offshore and marine structures by both means of Galvanic and ICCP system (where applicable).
- Design and development of various types of CP Trans/rectifier Units
- Design and development of Special Power Supply units
- Design and development of RRU systems ( Remote Rectifier Units)
- Design and development of RMU systems ( Remote Monitoring Units)
- Design and development CP Remote Monitoring and Control Systems
- Design and development of GPS synchronized On/Off control of T/R units
- Project Design of SCADA based ICCP systems
- Project Management of ICCP Galvanic CP systems
- Project Design of Local Cathodic Protection of Oil and Gas and Energy Facilities
- Design and Planning of CP installation of special ICCP anodes
- Design and Planning of Subsea and Offshore Structure CP systems
- Design and Planning of Ships and Vessels ICCP systems
- Design and Planning SCADA communication systems
- Design and Planning of ICCP Systems for Internal Cathodic Protection
- R & D of CP systems of Reinforcing steel in Concrete Structures
- R & D on AC interference analysis and mitigation system design
- R & D on Projects Safety and Economics

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