

# ENERGOPROJEKT

## ENTEL A.D.



**75**  
YEARS OF EXCELLENCE

COMPANY PROFILE 2026



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# Welcome to Energoprojekt Entel

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As **Energoprojekt Entel** marks its **75th anniversary**, we reflect on a journey defined by vision, resilience, and a steadfast commitment to excellence. Since our founding in 1951, we have grown from a regional engineering consultancy into a globally recognized partner, delivering complex and strategically important projects in diverse sectors.

Our reputation as a **trusted, reliable, and client-oriented partner** has been forged through decades of delivering solutions that combine technical mastery with an unwavering dedication to our clients' success. From large-scale infrastructure and critical energy systems to advanced communications networks, water systems and environmental solutions, our work has consistently shaped industries and improved communities.

Guided by our six core values — **Trust, Integrity, Respect for Nature, Progress, Diligence and Excellence** — we have built enduring relationships with clients, partners, and stakeholders. These values are not just words; they are the foundation of our business philosophy and the compass for every decision we make.

In an era of rapid technological change and growing environmental responsibility, we remain committed to **sustainable development** and to staying at the forefront of technical innovation. Our teams integrate decades of experience with forward-thinking solutions, ensuring that every project we deliver meets the highest professional and environmental standards.

As we look ahead, we do so with confidence — grounded in our heritage, empowered by our people, and inspired by the opportunities that lie before us. Together with our clients, partners and expert workforce we will continue to **stay strong, stay true, and prosper** for decades to come.



  
Mladen Simović  
DIRECTOR



ENERGY

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# CONSULTANCY AT ITS BEST

EXPERIENCE. KNOWLEDGE. SOLUTIONS.

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In the **EIGHT DECADE** of successful business practice, **ENERGOPROJEKT ENTEL** proudly presents its capacities, experience and achievements in consultancy, design, engineering, strategic planning and project management services in the fields that are essential in the modern day:



energy



water



information  
and  
communication  
technologies



coupled with  
preservation  
of natural  
resources and  
sustainable  
environmental  
practices

We are looking forward to our future accomplishments, while making all decisions in a way that will make us proud when looking back on to the past experiences and challenges.



## RELIABLE AND TRUSTWORTHY PARTNER

**ENERGOPROJEKT ENTEL** is strongly committed to achieving success for our clients, shareholders and communities we serve. Successful projects are only those which have generated benefits both to clients and the broader community.

Through the execution of complex and strategically important projects in key industrial sectors, we take pride that we have been recognized as a trust, reliable and client-oriented partner in projects that

require high level of professional service, extensive technical knowledge and unmatched dedication.

Drawing on decades of experience, ENERGOPROJEKT ENTEL has assisted clients across the capital infrastructure sector to navigate a range of complex issues either in strategic decision making, development of green field projects, or reconstruction, refurbishment or adaptation of already running facilities.



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**Inspired by POSSIBILITIES**  
**Driven by PASSION**  
**Committed to SUCCESS**

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# WE GROW TOGETHER

IDEA. STRATEGY. IMPLEMENTATION.  
REALITY.

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In pursuit of our vision of continuing to be a reliable and trustworthy company with specialized skills, high-tech know-how and long-standing expertise, ENERGOPROJEKT ENTEL is constantly developing capabilities to manage highly complex and demanding projects in the rapidly changing business practices of today.

In order to be able to keep achieving the top results and provide solutions based on the latest advances in areas of our expertise, we rely on our proven business management practice that rests on the several management pillars.





### **STRATEGIC PLANNING**

In order to keep running and continuously expand our decades long business operations, we rely on the strategic business planning as a key to achieving sustainable business practice. Our short term, medium term and long term business planning rely on the market analysis and forecast, analysis of the company's strengths, weaknesses, opportunities, and threats, all aimed at developing a comprehensive plan for achieving business objectives.



### **ENVIRONMENTAL SUSTAINABILITY**

We consider implementation of sustainable environmental practices to be a must not only in all our projects, but also in the everyday business of our companies. By relying on the use of renewable energy, implementation of energy-efficiency measures, reduction of carbon emissions and implementation of waste separation and recycling measures, the company demonstrates firm dedication to sustainability of our business operation and contribution to the achievement of global sustainability goals. Our sustainable practices are aimed to preserve the environment and improve the quality of life for generations to come.



### **TIME MANAGEMENT**

In today's rapidly changing work environment, time management represents one of the crucial elements in successful business operations. By successfully managing deadlines, determining priorities smartly and distributing workload wisely, we strive to achieve efficiency and productivity that will be beneficial to both our clients and our employees.



### **WORKPLACE DIVERSITY**

With several companies around the globe and multicultural workforce, we recognize that the most successful businesses today are the ones that embrace diversity. A multicultural as well as multi-generational workforce has enabled the company to benefit from implementation of different views and perspectives, knowledge transfer, development of mentoring relationships and exchange of ideas in the best possible way, while enabling its employees to learn from their colleagues and cherish differences and authenticities.



### **CONTINUOUS LEARNING**

By providing continuous learning and skill development of our employees, we are ensuring that the latest technological advancements are being implemented both in all our projects and our business processes. This enables the company's set of skills and knowledge base to be constantly improved, thereby contributing to the overall joint corporate success. We consider a good idea to be one of the most important principles in successful business practice. This principle has led us to position ourselves among the best service providers in the energy and water consultancy arenas.





### **CYBERSECURITY**

Recognizing that cybersecurity has become one of the main concerns in today's digital age, we have adopted all necessary cybersecurity measures to prevent data breaches and cyberattacks, guaranteeing reliable business operation to all our partners, clients as well as to our employees.



### **RISK MANAGEMENT**

Risk identification, assessment, analysis and proper management are highly important for protecting our projects, assets and reputation. We pay the utmost attention to timely and properly identify and manage each individual risk that can potentially endanger any of our project, client, employee, company, or business as a whole.



### **INNOVATION**

It goes without saying that implementing the latest industry development achievements, adapting to new technologies and market trends is essential for securing solid market position, achieving continuous growth and enabling company to excel beyond the competition. We have continuously demonstrated that this strategy has been a backbone of our decades long success and reputation that enabled us to be a partner of choice for numerous high-level state, private, local and global industry players.



### **PERFORMANCE AND FINANCIAL MANAGEMENT**

Proper performance and financial management are crucial for evaluating success of business operations, effectiveness of employee performance and making of informed financial decisions. Accurate performance and financial data represent crucial input for data driven company's business analytics and further lead to relevant strategic, operational and top management decisions.



### **CLIENT SATISFACTION**

Establishing a long-term partnership with our clients has always been one of our main goals. We are ready to go above and beyond the industry standard to provide support and premium services to our clients, making us trustworthy to take on challenges, lead project execution and commit ourselves fully to the joint success. Our services shall always be tailor made to address specific requirements of our clients, enabling all parties involved to achieve sustainable development through our commitment to quality, optimal project implementation solutions and successful project implementation.



### **EMPLOYEE RECOGNITION AND BENEFIT PROGRAMS**

Our workforce is our most important asset. Dedication, motivation and knowledge acquired by our employees are constantly evaluated, recognized and rewarded through different employee benefit programs. Rewarding employees for their good performance has been one of the key factors of our long-standing premium position in the market, enabling the company to build a positive work culture and pleasant work environment that encourage respect, equality, inclusivity, trust, empathy and belonging for all people.

# CORE VALUES

STAYING STRONG. STAYING TRUE. PROSPER.

Through the execution of complex and strategically important projects in key industrial sectors, ENERGOPROJEKT ENTEL takes pride that it has become recognized as a trustful, reliable and client oriented partner in projects that require high level of professional service, extensive technical knowledge and unmatched dedication.

Our outstanding worldwide reputation is due to the success of our projects and continued growth of our clients. To fulfill our vision of being the chosen provider of outstanding engineering services, we base our business strategy on six core values.



## TRUST

We strive to build a relationship based on trust, both with our clients and our partners, as well as our employees and shareholders.



## INTEGRITY

We remain dedicated to delivering responsible, reliable, professional and high quality services.



## RESPECT FOR THE NATURE

We conduct our activities with utmost respect for the environment and the communities where we work, appreciating diversity of people and cultures and showing genuine respect for each other.



## PROGRESS

We are determined to remain at the forefront of technical innovation while delivering solutions based on the principles of sustainable development, always nurturing and encouraging professional growth of our employees.



## DILIGENCE

We always aim to exceed the expectations of our customers by promoting efficient and productive work in stimulating and rewarding work environment.



## EXCELLENCE

We deliver excellence to our clients by maintaining high technical and professional standards, implementing innovative and creative solutions and constantly improving the mainstream technical and managerial disciplines. The basis of ENERGOPROJEKT ENTEL's business philosophy lies in our dedication to integrate our vast experience with our clients' needs by combining novel and practical approaches in order to provide the best solutions and offer the best advice.



# FROM THE BEGINNING

## EARLY DAYS. GROWTH. DEVELOPMENT.

**ENERGOPROJEKT ENTEL** is a member of ENERGOPROJEKT GROUP, an enterprise which has developed to become one of the most reputable international engineering companies through close to 70 years of international experience, with successful business practice and operations conducted in over 70 countries around the world.

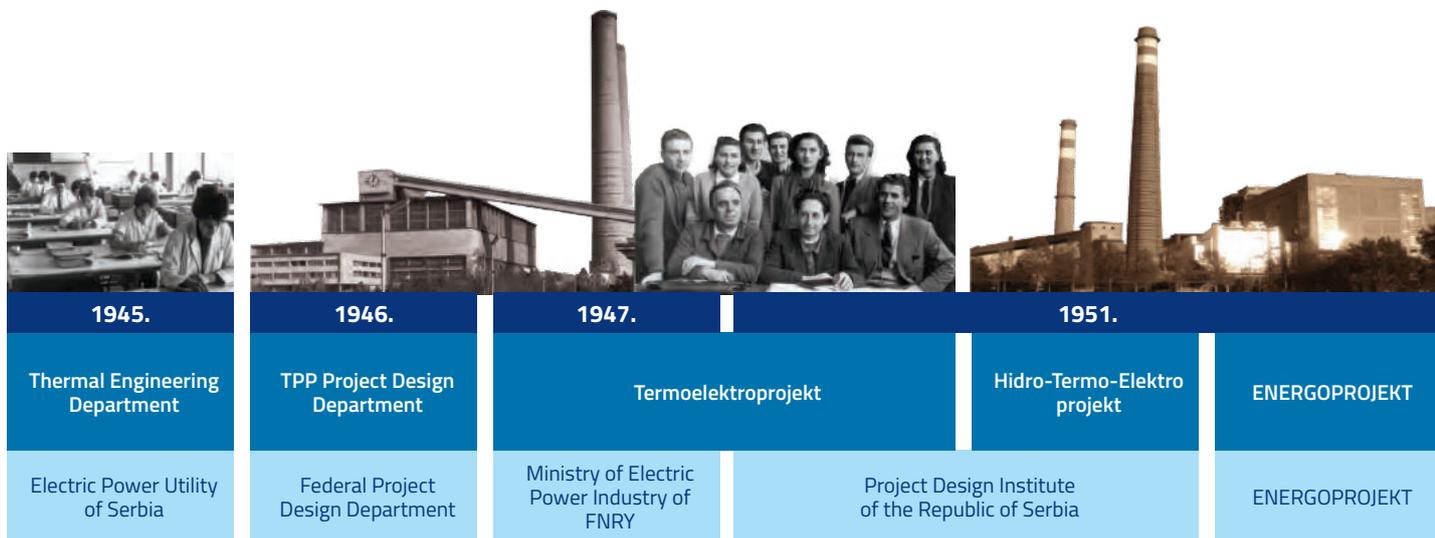
**ENERGOPROJEKT** was founded in Belgrade, Serbia, in 1951 by merging two state-owned design institutes, namely *HIDRO-ELEKTROPROJEKT* and *TERMO-ELEKTROPROJEKT*, providing design and consulting services related to hydro power and thermal power generation, respectively. The new company was named *HIDRO-TERMO-ELEKTROPROJEKT*, soon to be changed to a more simple title: **ENERGOPROJEKT**. This marked the beginning of an extraordinary journey of one of the best engineering companies in the South East Europe.

In the first 10 years since being established, **ENERGOPROJEKT**'s engineers had carried out important projects in the power sector of the time: they designed the first thermal power plants in former Yugoslavia, including Thermal Power Plants *KOSTOLAC*, *MORAVA*, *KOLUBARA* and *KOSOVO*, as well as several hydroelectric power plants.

During this period activities were also initialized in Turkey, Lebanon, Syria, Pakistan, Burma, India, Cambodia, Afghanistan, Jordan, Tunisia, Algeria, Egypt, Morocco and Ghana that included implementation of projects focused on hydro-technical and irrigation systems.

In the 1960s **ENERGOPROJEKT** continued to grow and evolve into complex system of companies providing not only design and consultancy, but also engineering, construction and project management services in the construction of various infrastructure, public, industrial, commercial, and residential facilities.

In this period, **ENERGOPROJEKT** established offices, subsidiaries and joint ventures in numerous countries around the world and successfully built more than 60 water processing facilities, over 50 concrete and embankment dams, 25 thermal power plants, more than 80 industrial facilities, several thousand residential apartments and hundreds of residential buildings.



## TOP INTERNATIONAL RANKING

Throughout the 1970s and 1980s, **ENERGOPROJEKT** has grown to become a world renowned company, completing a significant number of capital worldwide projects that were significant both in terms of their complexity and their value. **In 1980, ENERGOPROJEKT ranked #6 among consulting companies, #20 among engineering companies and #27 among project contractors. In such a way, ENERGOPROJEKT had cemented its place as one of the most recognized international engineering companies of that time.**

## ENERGOPROJEKT'S GROWTH

During the next decade, ENERGOPROJEKT's activities expanded on new markets, **with implementation of capital projects in Uganda, Botswana, Peru, Kenya, Iceland, Central African Republic, Zaire, Gabon, Panama**, as well as in numerous other countries where the company was already present. ENERGOPROJEKT also initiated activities in the **OPEC member countries including Iraq, Kuwait, Iran, Libya and Nigeria with power generation and transmission systems being the focus of attention.**

The integrity and strong performance of ENERGOPROJEKT GROUP over time is best depicted by its constant presence on the top 225 list of international design companies, as issued by the renowned Engineering News Records magazine.

## ESTABLISHMENT OF ENERGOPROJEKT ENTEL

In 1989 ENERGOPROJEKT undergone organizational transformation, resulting in the formation of **ENERGOPROJEKT ENTEL** as an independent company providing engineering design and consultancy services related to energy, water, telecommunication and environmental protection.

In such manner, the newly established **ENERGOPROJEKT ENTEL** has continued with implementation of core corporate activities and provision of expertise that was embedded in the Energoprojekt's portfolio and developed from its early days. **ENERGOPROJEKT ENTEL** services therefore rest on the knowledge, skills, competencies and experience continuously developed and acquired from the early 1950's.

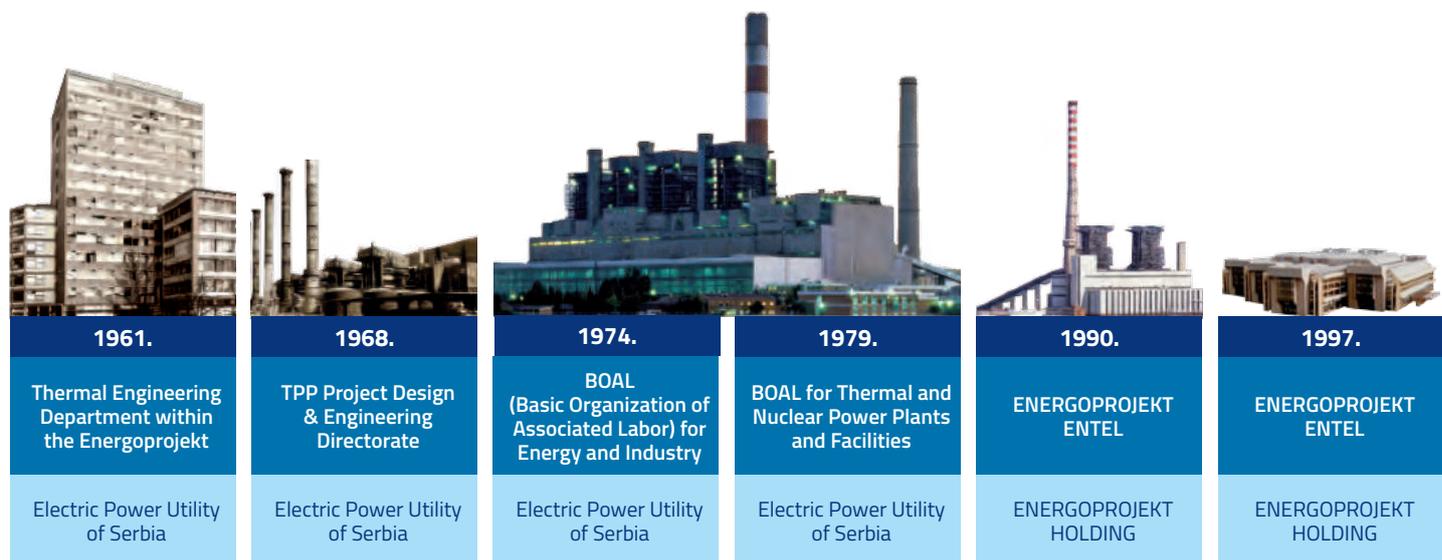


Energoprojekt was founded in Belgrade, Serbia in 1951 as a state owned company aimed at providing design and consulting services related to thermal and hydro power generation.

During the 1990's, **ENERGOPROJEKT ENTEL** continued with activities in Serbia and the South East Europe, while, at the same time, intensified its business in the Middle East region. This was later shown to be a crucial moment that enabled the company's success in the Middle East, leading to the decades of extraordinary results in the power and water sectors of the Gulf Region.

The first, large scale, engineering consultancy project (**Qatar Power Transmission System Expansion - Phase IV**) was awarded to ENTEL in 1991, resulting in the establishment of company's Qatar branch office. Since then, the business in Qatar has been constantly growing and the company has become a well-known engineering consultancy service provider for capital projects in the most important infrastructure sectors.

In 1996, ENTEL operations were extended to **Sultanate of Oman**, with contract signed for the consultancy services in the same year, when a branch office in Muscat has been opened.



In September 1997, ENERGOPROJEKT, as well as ENERGO-PROJEKT ENTEL, underwent an ownership transformation, migrating from a state owned company to a joint stock company.

As the result of successful operation and increased business intensity in the Middle East, another two branch offices were established in Abu Dhabi (in 2002) and Dubai (in 2003). This marked the first step in the more than 20 year long tradition of premium consultancy services in the United Arab Emirates.

In 2023 ENTEL has been pre-qualified with **Electricity and Water Authority in Bahrain** for execution of Consultancy Services, leading to the opening of another Middle East office, this time in Manama, Bahrain.

In 2022 ENTEL started providing services in Bangladesh, expanding its activities to the east of the continent.

The latest addition to the ENERGOPROJEKT ENTEL's system is **a company established in the Kingdom of Saudi Arabia**, opened in 2024. Entering the largest utility market in this part of the world marked an important step further in the company's development.

**By gradually expanding its network and strategically deciding on the new markets to be entered, the company is devoted to establishing a long-term partnership with clients in the communities it serves, improving the quality of life for the people around the world and maintaining outstanding worldwide reputation through the success of its project undertakings.**



Throughout the 1970s and 1980s, Energoprojekt has grown to become a world renowned company, completing a significant number of capital worldwide projects that were significant both in terms of their complexity as well as their contract value. In 1980, Energoprojekt ranked #6 among consulting companies, #20 among engineering companies and # 27 among project contractors.



MORE THAN  
**SEVEN DECADES**  
IN SOUTH EAST EUROPE

MORE THAN  
**THIRTY YEARS**  
IN THE MIDDLE EAST

Together, we are building a legacy that shows that every project matters and that success comes as a result of smart choices, hard work and bold goals.

# KEY FACTS & FIGURES

COMPANY NAME	ENERGOPROJEKT ENTEL A.D. BEOGRAD
Address / Location	Serbia 11070 BELGRADE Bulevar Mihajla Pupina 12
Director	Mr. Mladen Simović, Dipl.-Ing.
Phone No.	(+381) (11) 310 1200, 310 1203, 310 1205
e-mail	office@ep-entel.com
Web site	www.ep-entel.com
Company Founded	1951
Company type	Private
Ownership	100% Energoprojekt Holding, Source: www.crhov.rs, December 2025
Revenue/turnover	More than 32 million EUR in each of the past 10 years
Employees	Constantly over 400
Middle East Offices	Energoprojekt ENTEL Doha, Qatar Energoprojekt ENTEL Muscat, Oman Energoprojekt ENTEL Abu Dhabi, UAE Energoprojekt ENTEL Dubai, UAE Energoprojekt ENTEL Manama, Bahrain Energoprojekt ENTEL Dammam, Saudi Arabia
Integrated Management System Certificates	ISO 9001, ISO 14001, ISO 45001, ISO 50001, ISO/IEC 27001



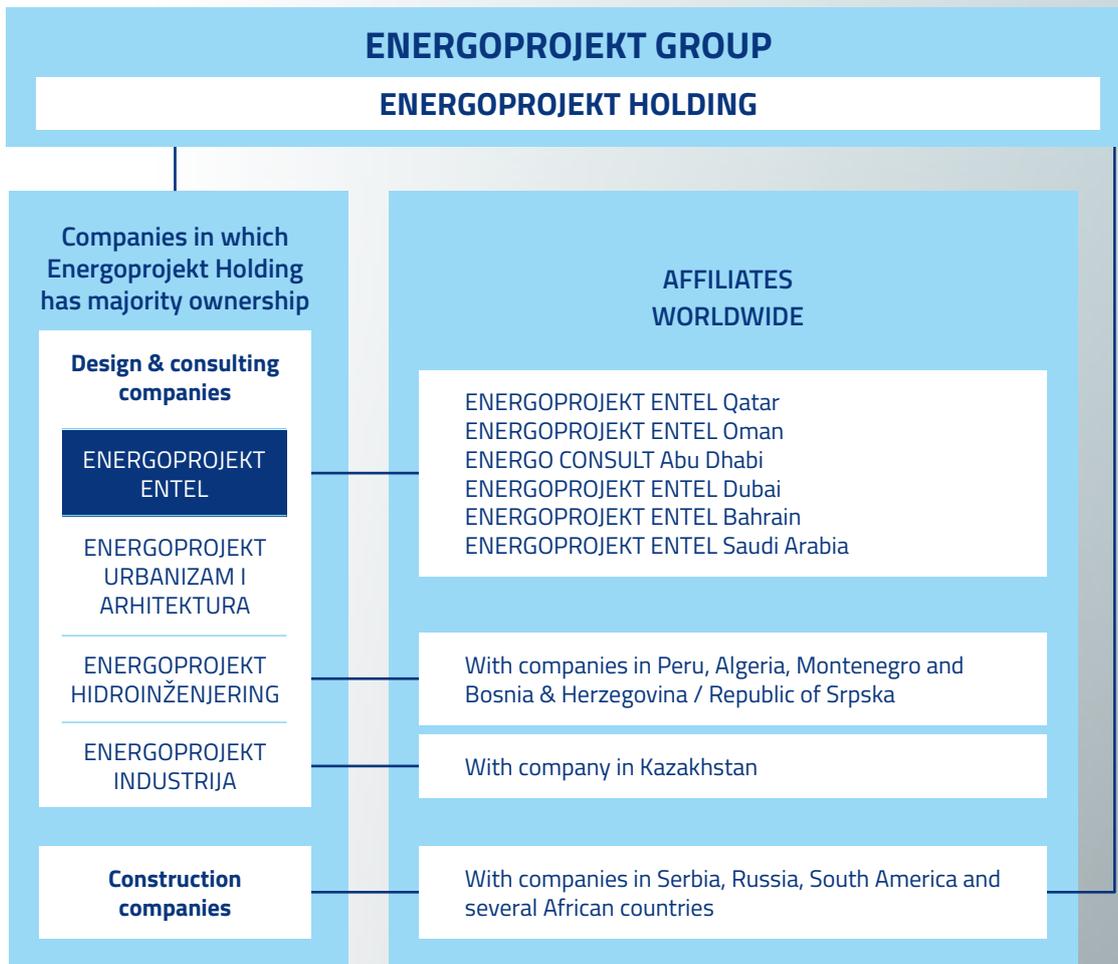


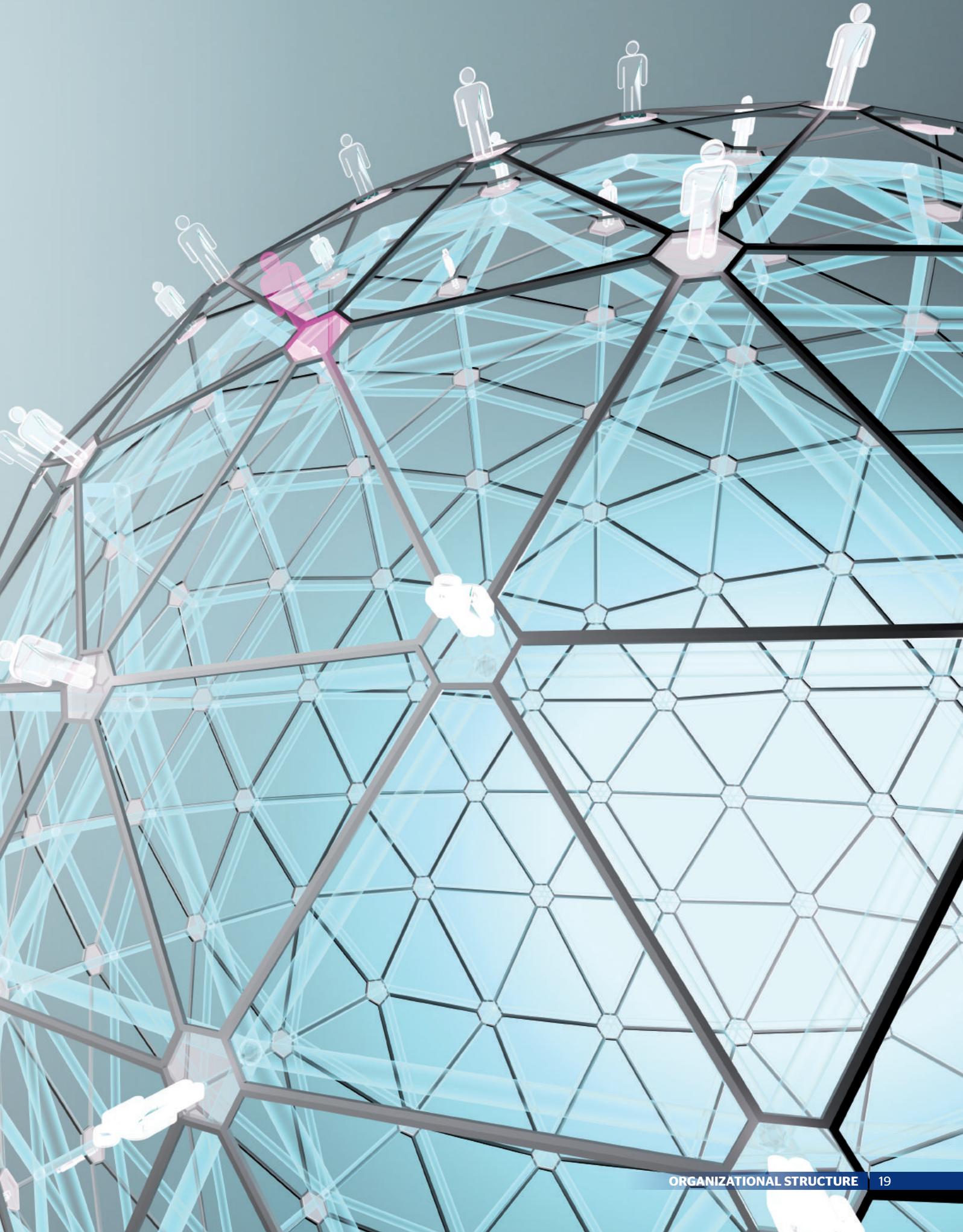
# ORGANIZATIONAL STRUCTURE

ENEROPROJEKT GROUP.

ENERGOPROJEKT ENTEL'S BUSINESS ENTITIES.

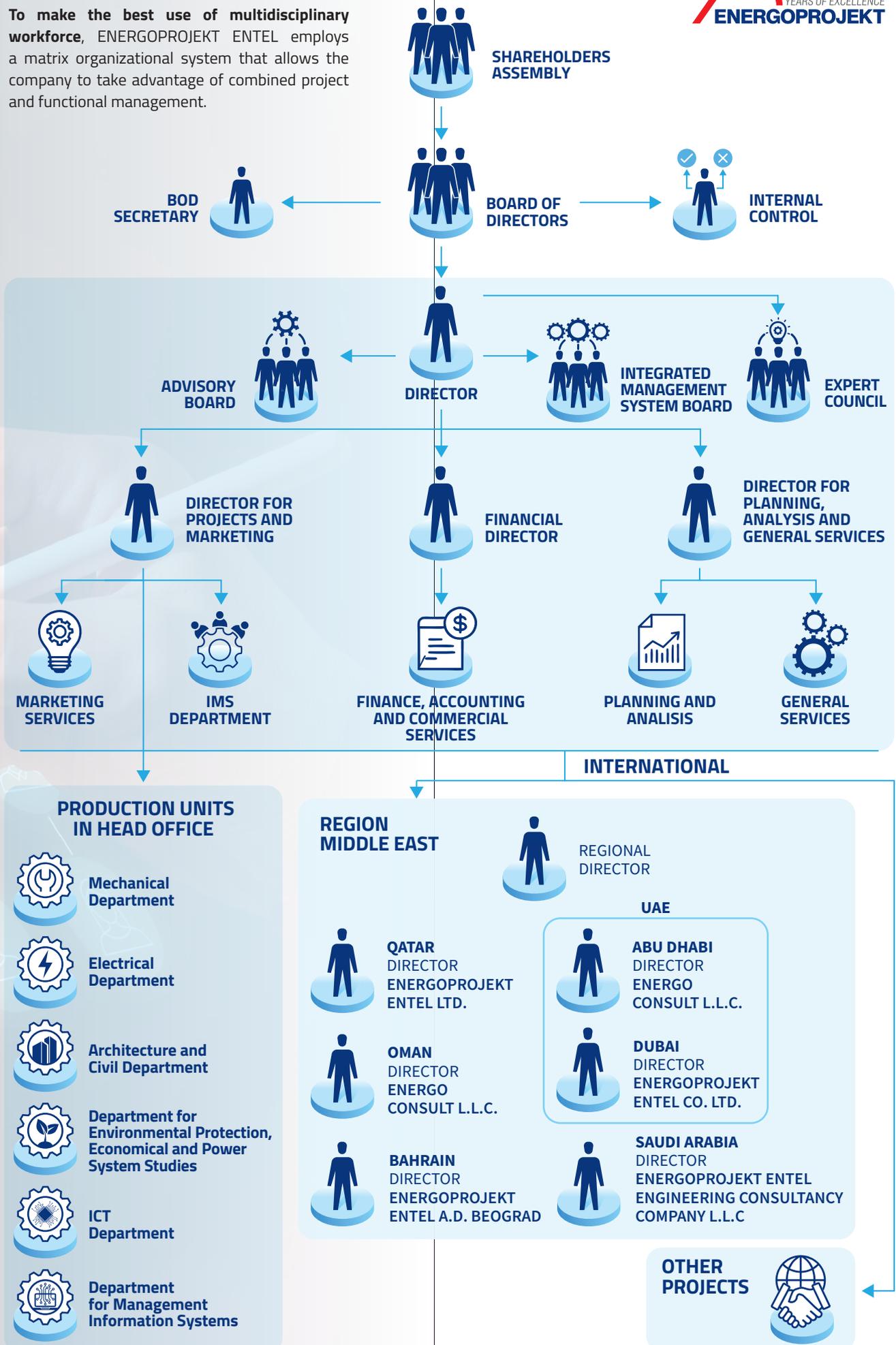
ENERGOPROJEKT ENTEL is a member of ENERGOPROJEKT GROUP, a complex business system that provides a full range of engineering services in the field of energy generation, transmission and distribution, building engineering and construction, infrastructure, water management, environmental protection, industry and information and communication technologies.







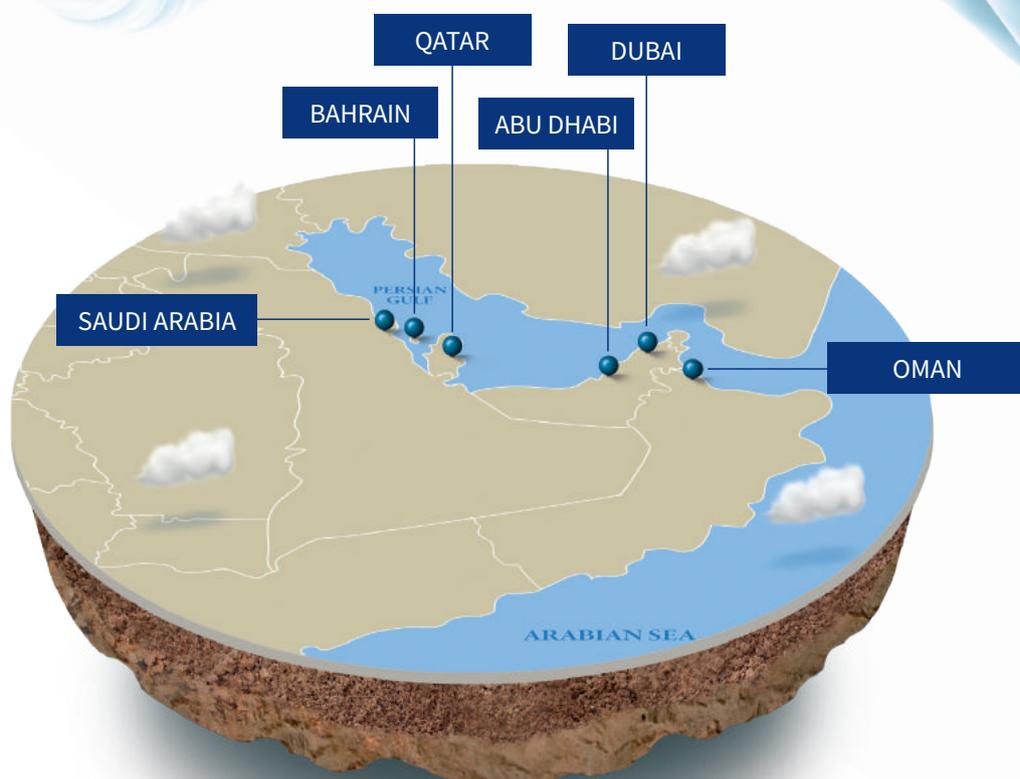
To make the best use of multidisciplinary workforce, ENERGOPROJEKT ENTEL employs a matrix organizational system that allows the company to take advantage of combined project and functional management.



## BUSINESS OPERATIONS

With Head Office located in Belgrade, Serbia, ENERGOPROJEKT ENTEL manages operation of its international locations and activities. Doha office is the primary hub for all Middle East

activities as well as other markets in the East, but also in the Africa region.





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# FINANCIAL PERFORMANCE

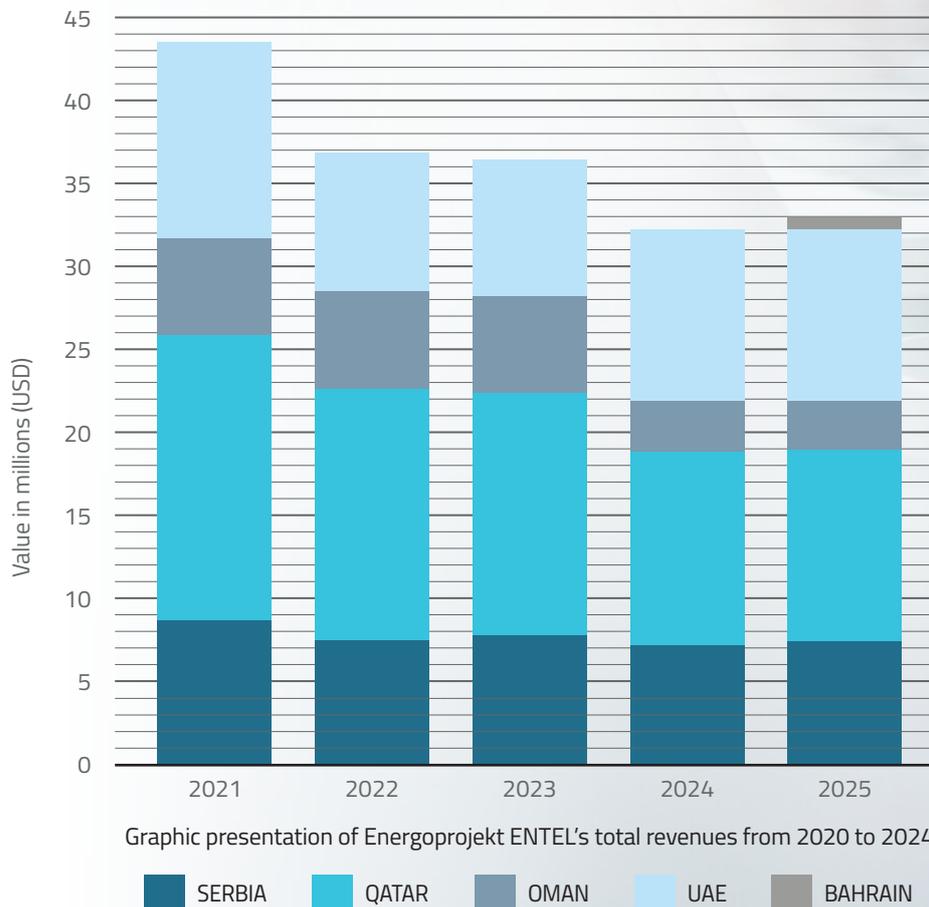
## RESULTS.

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ENERGOPROJEKT ENTEL exhibits stable financial performance over the past decade, with financial objectives being successfully accomplished. Apart from accomplishing project success for our clients and stakeholders, the company has always been strongly dedicated to achieving good results for its shareholders, enabling sustainable business growth and long-term operation.

Successful business operation of ENERGOPROJEKT ENTEL is demonstrated by its stable financial performance over the years.

The following graph illustrates ENTEL's revenues over the last five years.





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# SERVICES

ENERGY. WATER. ICT. ENVIRONMENT.

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ENERGOPROJEKT ENTEL provides engineering design and consultancy services related to the fields of energy, water, information and communication technologies, coupled with complex considerations of all related environmental protection issues.

Consulting services provided by ENERGOPROJEKT ENTEL focus on several main fields of interest:

- Renewable Power & Energy Efficiency
- Thermal Power Generation
- Power Transmission Lines and Substations
- Water Generation & Transmission
- Information and Communication Technologies
- Oil & Gas Processing and Transport
- Environmental Protection
- Power Control Centers and SCADA Systems
- Power System & Other Studies





## RENEWABLE POWER GENERATION

In line with global concerns about the future of energy supply, both with respect to energy supply security and environmental issues, ENTEL provides consulting and design services that reflect on the sustainability of energy generation and use of renewable energy sources. As a result of intense investment and project activities in the field of green agenda, our reference list in renewable projects is continuously being updated. Apart from utilization of solar and wind energy, we are also providing services in the capital waste-to-energy projects, as one of the technical solutions for the important issue of waste management.

Aiming to promote responsible energy use, ENTEL has been involved in many projects addressing energy conservation through implementation of energy efficiency measures. More efficient use of energy is a task we implement in all our projects, recognizing that efficiency of energy use represents an equally important aspect of the global green agenda as much frequently mentioned utilization of renewable energy.

## THERMAL POWER GENERATION

Resting on the decades of experience and build up expertise, ENTEL's experts have provided consulting services for all thermal power plants constructed up to date in Serbia as well as for numerous plants in the South East Europe, Middle East region and in many other countries.

ENTEL is today seen as the premium Consultant in thermal power sector in Serbia, covering a wide spectrum of engineering services, whether related to the capital refurbishment and privatization projects in the power sector or planning and construction of new, modern power generation capacities.

## POWER TRANSMISSION LINES AND SUBSTATIONS

Through implementation of capital projects in the power transmission sector, including complex interconnector projects connecting power systems of neighboring countries, ENTEL has proven its well earned position as a premium consultant in the power transmission projects.

Over the past decade alone, ENTEL was contracted either as a consultant or as a designer on more than 300 power substations, in the range from 11 kV to 400 kV.

ENTEL is today recognized as one of the leading consultant in the field of power transmission systems, both in Serbia, as well as in the Middle East.

## WATER GENERATION & TRANSMISSION, SEWAGE TREATMENT SYSTEMS

ENTEL has developed expertise in the field of water generation through successful execution of major water projects in Oman and Qatar.

Our experts possess a strong understanding of water desalination technologies and processes and are equipped with necessary software solutions to provide the best consulting services for the largest water generation, transmission and treatment facilities. ENTEL's project references in this field are reported annually in the Water Desalination Report, issued by the International Desalination Association, with ENTEL being one of the members.

With necessary software packages and know-how to provide high quality consulting services necessary for the largest water generation, transmission, and treatment projects, ENTEL's expertise in this field include design, consultancy and construction supervision services.



Our references in the field of water generation, storage and distribution include state of the art projects characterized by innovative technologies, large capacities and complex implementation matrices. We are particularly proud of the fact that some of the projects implemented by ENTEL's experts are stated in the Guinness Book of World Records due to their record-breaking characteristics.

### INFORMATION COMMUNICATION TECHNOLOGIES

Strong expertise and highly qualified and experienced staff in the field of information and communication technologies are available to serve the various needs of capital power and other utility projects.

We continuously follow modern trends in providing optimized and custom solutions that are best suited to our client's needs.

### OIL & GAS PROCESSING AND TRANSPORT

ENTEL is recognized as a reliable partner of Oil & Gas processing and construction projects.

By implementing our broad knowledge and valuable experience, ENTEL is determined to keep expanding its services in this field and participate in the capital oil and gas projects that are shaping the world of today. The specific area of LNG shall be given particular importance in our future activities.

### ENVIRONMENTAL PROTECTION

ENTEL actively participates in environmental protection initiatives through projects aimed at reducing environmental pollution and preservation of both natural and cultural heritage. Through a complex, interdisciplinary approach, our experts provide a range of consultancy services needed for implementation of all necessary pollution mitigation and prevention measures, thereby helping clients to address environmental impacts of their facilities.

### POWER CONTROL CENTERS AND SCADA SYSTEMS

ENTEL was the concept maker for the Power Control Centers in former Yugoslavia and in Qatar and Oman. ENTEL services also include SCADA systems in oil and gas industry.

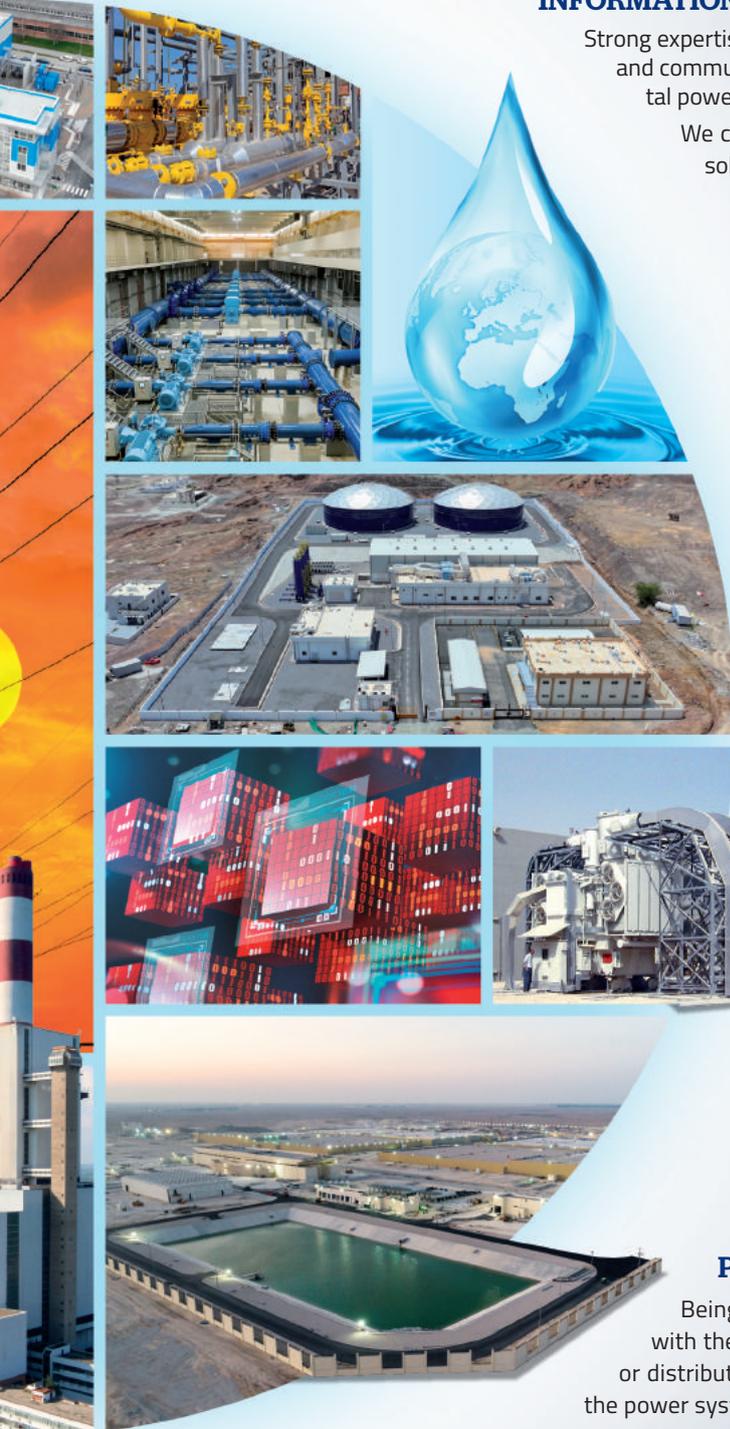
We will continue to integrate remote real time data gathering and control systems in our complex industrial projects in order to provide the best possible supervision and management of any facility operation and use.

### POWER SYSTEM STUDIES

Being equipped with all necessary tools for power system analysis and with the accumulated experience in performing studies for the transmission or distribution systems, ENTEL has the capacity to manage any task related to the power system planning, regardless of the complexity or time constraints.

In addition, ENTEL has carried out numerous operational studies and is fully equipped to make necessary testing and investigation of the power system components.

As a reliable, efficient, and creative partner, ENERGOPROJEKT ENTEL combines an extensive understanding of specific technologies and local conditions with international business experience. This gives a solid base for a comprehensive set of consultancy and engineering services that we provide to our clients.





**ENTEL's experts are highly experienced in the following fields:**

- Development, Planning and Feasibility Studies
- System Studies
- Tender Documents Preparation and Tender Process Management
- Bid Evaluation (Technical & Commercial)
- Project and Construction Management
- Mechanical, Electrical, Civil, Instrumentation and Telecommunication Engineering Design
- Land Surveying
- IT Engineering
- HSE Engineering
- Value Estimate of the Power Utility Companies
- Permit Engineering services

**The Company is involved in the wide range of projects, providing additional services under the following assignments:**

- Site investigations and surveys
- Equipment and plant testing and inspection
- Construction supervision
- Startup and commissioning services
- Project management services



**ENTEL's strength lies in its supreme ability to successfully organize and manage the implementation of particularly complex capital projects that require premium technical knowledge, the highest level of commitment and a proven track record of successful cooperation of an experienced multidisciplinary team.**

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# RESOURCES

## PEOPLE. FACILITIES. IT INFRASTRUCTURE.

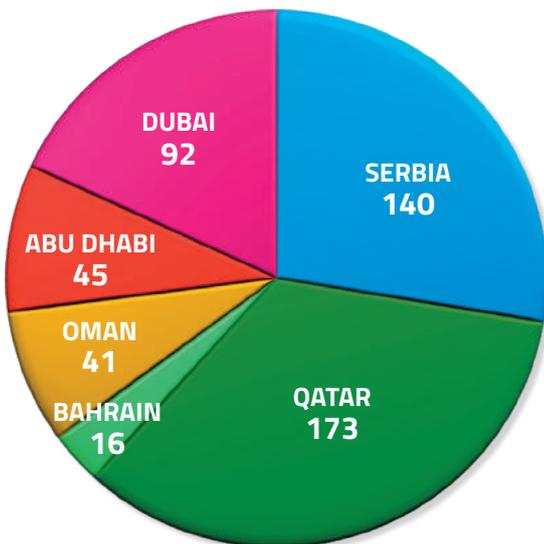
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The most important resource of ENERGOPROJEKT ENTEL is its extraordinary workforce. Their broad knowledge of current and promising technological developments, their substantial professional experience, their enthusiasm and commitment to our clients and company's success are the key to our excellent reputation worldwide.

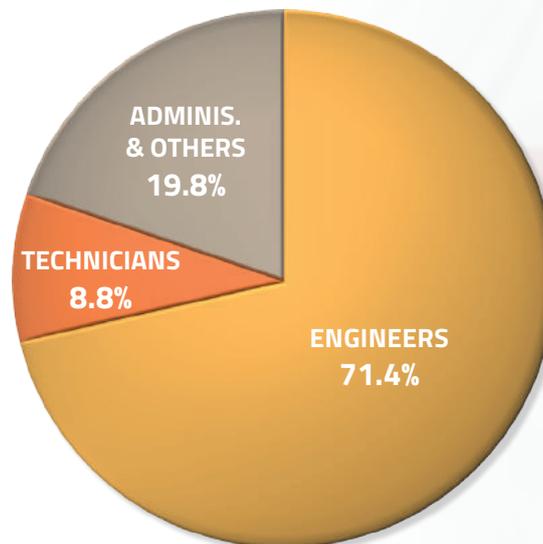
It is commonly said that a general advantage of a multicultural workforce is a broader range of perspectives on issues or challenges encountered. In today's global and deeply connected world it comes as no surprise that more diverse companies and organizations are achieving better performance and are more capable of reaching the goals set. We, at ENERGOPROJEKT ENTEL, have committed ourselves to creating a multicultural work atmosphere where differences and individual strengths of our employees are fully appreciated and benefited from. As talent or knowledge knows no boundaries, we make it our mission to attract, develop, support and retain the next generation of engineering experts from around the world who will carry on the corporate legacy carved out through almost seven decades of international experience and successful business practice.

Today we proudly say that ENTEL's community gathers experts from many different nations. This diversity has given our business creativity and much needed competitive edge, enabling us to celebrate natural and cultural diversity in our community, while remaining devoted to treating all our employees with respect and appreciation they deserve.

The permanent staff of ENTEL include skilled experts with graduate degrees in engineering, architecture, mathematics, economics and computer science. Their technical and economic analytical skills are complemented by their extensive experience in the energy sector and the international arena.



Number of employees at ENTEL's companies



ENTEL's personnel structure

The people of ENTEL are the force and spirit behind our ongoing business success, premium position in the market and expanding global presence.

**Their strong integrity, ingenuity and focus on resolving all challenges encountered along the way, make our company stronger and resilient.**

## FACILITIES

Together with other companies from ENERGOPROJEKT GROUP, ENERGOPROJEKT ENTEL is the owner of the Head Office Building in Belgrade, Serbia, having the total surface area of more than 50.000 m<sup>2</sup>.

Furthermore, the company has permanent office premises of approximately 1.600 m<sup>2</sup> in Qatar, self-financed, designed

and constructed office and residential building of 3.200 m<sup>2</sup> in Oman, 500 m<sup>2</sup> in Dubai and 600 m<sup>2</sup> in Abu Dhabi. ENTEL's offices in Bahrain and Saudi Arabia enable all company operations in the Middle East to be run smoothly and our experts to work in synergy in order to achieve the best possible results for our clients in the Middle East.

## IT INFRASTRUCTURE

Corporate network interconnects branch offices in Dubai, Abu Dhabi, Doha, Muscat, Manama and Dammam with head office in Belgrade.

Head office in Belgrade is connected via redundant VPN tunnels across multiple Internet providers, ensuring high availability through diverse and resilient WAN links. As a RIPE member with our own LIR and AS, we manage a substantial range of provider-independent public IP addresses.

Following a modern 3-tier architecture, our corporate network integrates numerous servers distributed across multiple data rooms, backed by highly available and redundant storage infrastructure. Our server clusters, running on Linux, power a wide array of critical IT services—including email, web, FTP, and file sharing—aligned with the latest industry standards.

Business continuity is reinforced by a dedicated Disaster Recovery Site, fully compliant with ISO 27001 security protocols.

We have also implemented AI-driven solutions in specific processes, enhancing efficiency, innovation, and data-driven decision-making. Our AI system integration tools help in predictive analytics, code programming, network performance optimization, and security threat detection, contributing to proactive issue resolution and streamlined operations. Furthermore, all of our employees have access to a dedicated segment of our AI model, enabling them to solve tasks more quickly and accurately. This empowers our teams to make faster decisions, increase productivity, and innovate in their daily work.

Our Unified Communication and Collaboration System (UC&CS), featuring advanced video conferencing capabilities, seamlessly connects all ENTEL offices. As we continue to evolve, we remain committed to staying at the forefront of technology, ensuring a future-ready IT ecosystem.

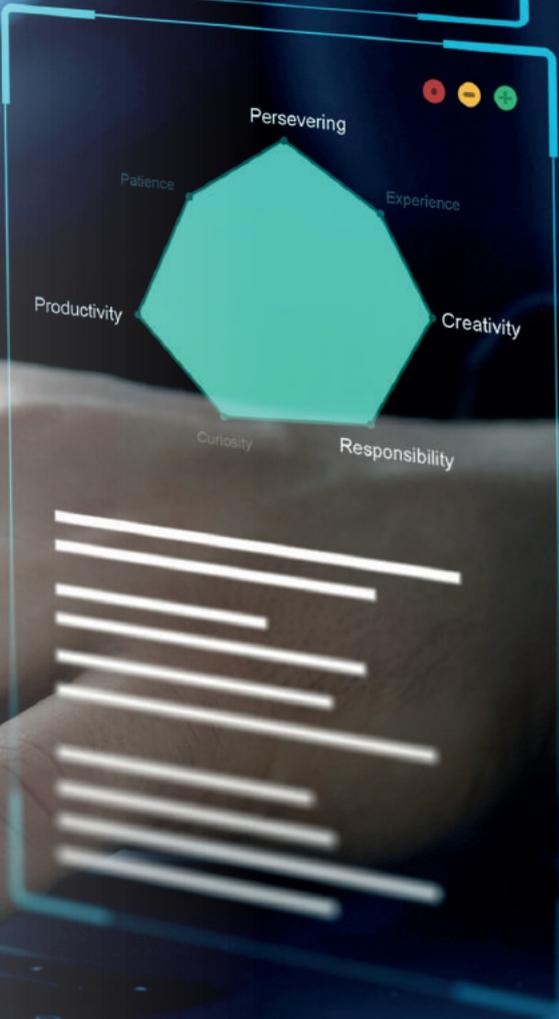
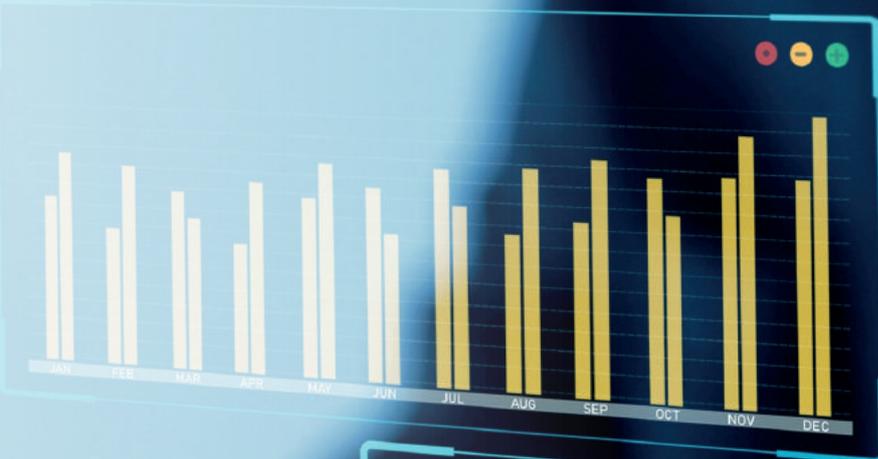
## COMPUTER SOFTWARE

To provide the most professional and the highest quality services, ENTEL engineers utilize vast range of specialized engineering software tools developed for different engineering disciplines.

The range of software packages used includes, among others, tools developed for structure design, static and dynamic analysis, thermal system modeling, mechanical and electrical design simulations and calculations, water distribution modeling, HVAC simulations, pipe stress analysis, hydraulic calculations, power system simulation, transmission network system planning, energy demand modeling, information and communication system planning and design, as well as pollution prevention modeling.

Apart from specialized engineering software packages, special attention is given to project management and planning, with appropriate software tools utilized in order to achieve the best possible project organization and progress monitoring, as well as optimal resource allocation, deemed particularly important in complex and highly demanding projects.

We are proud to mention that ENTEL's software engineers have successfully developed and implemented a range of professional application software tools, which has been particularly adapted to the specific field addressed.



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Consectetur adipiscing  
Elit, sed do eiusmod tempor  
Incididunt ut labore et dolore  
Magna aliqua. Quis ipsum  
Suspendisse ultrices gravida.

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# MARKETS AND CLIENTS

GLOBAL EXPERIENCE. LOCAL PERSPECTIVE.

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Our comprehensive presence in the South East Europe and the Middle East enables us to provide our clients with a unique combination of extensive global resources, world-recognized technical expertise and deep local market knowledge.

ENTEL has established a strong presence in the engineering service market of the South East Europe by rendering services specially tailored to meet requirements of the capital investment projects, while taking into account the local market conditions.

ENTEL has been present in the Middle East market since 1991, where it has proven its technical expertise and knowledge, becoming the well-known consultant in the Gulf Region. In order to provide the most professional level of service, ENTEL has established permanent branch offices in several Middle East countries.

Presently, ENTEL carries out its Middle East activities from branch companies established in the following countries:

- State of Qatar
- Sultanate of Oman
- United Arab Emirates (companies in Abu Dhabi and Dubai)
- Kingdom of Bahrain
- Kingdom of Saudi Arabia.

With deep local knowledge and distinctive operational skills, ENTEL will continue to expand into new energy and infrastructure markets worldwide.

## CLIENT PORTFOLIO

Our Clients traditionally include public institutions such as **ministries, government and municipal agencies** and research institutes and companies, but also **public and private-sector infrastructure service providers such as power generation and/or transmission companies, municipal utilities, water and sanitation companies, waste disposal enterprises, energy transport companies, developers, as well as construction companies.**

Through its full range of consulting and project implementation services, ENTEL enables Clients to build more value into their investments and drive their leadership in the marketplace.

The main clients and strategic partners in Europe include:

- **EPS (Electric Power Industry of Serbia)**, Serbia
- **EMS (Serbian Transmission System and Market Operator)**, Serbia
- **EPCG (Electric Power Industry of Montenegro)**, Montenegro
- **Elektroprivreda RS (Electricity Authority of Republic of Srpska)**, Bosnia & Herzegovina
- **UNDP**, United Nations Development Programme
- **FICHTNER**, Germany
- **TRACTEBEL**, Germany
- **SUEZ Group**, France
- **Shanghai Electric Corporation**, China
- **Power China Corporation**, China

### The most important clients in the Middle East include:

#### Qatar:

- KAHRAMAA (Qatar General Electricity & Water Corporation)
- QatarEnergy
- QAPCO (Qatar Petrochemical Company)
- WOQOD (Qatar Fuel Company)
- Qatar Chemical Company (QChem)
- QatarEnergy LNG
- Qatar Free Zone Authority (QFZ)
- QAFCO (Qatar Fertiliser Company)
- Ashghal (Public Works Authority)
- Economic Zones Company (Manateq)
- Hamad Medical Corporation (HMC)
- Qatar Foundation
- UDC (United Development Company)
- Samsung C&T Corporation
- Technip Energies
- Chiyoda Corporation
- Tecnimont SpA
- Tecnicas Reunidas

#### Oman:

- OMAN Water and Wastewater Services
- Transmission Company (OETC)
- NAMA Electricity Distribution
- Ministry of Defense (MOD)
- Petroleum Development Oman (PDO)
- JINDAL Shadeed Iron & Steel Co.

#### United Arab Emirates:

- Dubai Electricity and Water Authority (DEWA)
- Etihad Water & Electricity (EtihadWE)
- GCC Interconnection Authority (GCCIA)
- Emaar Properties
- DP World
- Damac Properties
- Dubai Holding (DHRE)
- Sobha LLC
- Sharjah Electricity & Water Authority (SEWA)
- Azizi Developments
- Abu Dhabi National Energy Company (TAQA)
- Abu Dhabi Transmission Company (TAQA Transmission)
- Abu Dhabi National Oil Company (ADNOC)
- Abu Dhabi Distribution Company (TAQA Distribution)

#### Jordan:

- National Electricity Power Company (NEPCO)

#### Bahrain:

- Electricity & Water Authority (EWA)

**For the past decades, ENTEL has been also providing services to the following clients in Africa and Asia:**

#### Bangladesh:

- Power Grid Company of Bangladesh

#### Nigeria:

- National Electric Power Authority (NEPA)

#### Sudan:

- Hassad Food Company

#### Kazakhstan:

- Kazzinc



# INTEGRATED MANAGEMENT SYSTEM

QUALITY. GUARANTEED.

We consider quality not simply a need to meet certain quality standards in our products and services, but a genuine commitment to our clients that guarantees the best possible service offered.

ENTEL's Integrated Management System, comprising QMS, EMS, OH&SAS, EnMS and ISMS as a tool for implementation of the defined quality, environmental, occupational health and safety, energy management and information security policies and objectives, in accordance with requirements of the international standards ISO 9001, ISO 14001, ISO 45001, ISO 50001 and ISO/IEC 27001.



## QUALITY PRINCIPLES

The integrated management system elements are designed to provide a comprehensive control of all processes that could affect the quality of products and services.

ENTEL's Quality, Environmental Protection, Occupational Health and Safety, Information Security and Energy Management Systems are designed not only to meet but to exceed the requirements, not only of our customers, but of all our stakeholders. ENTEL takes pride in delivering services in the most effective, efficient and reliable way possible.

The IMS policy established in ENTEL is regularly reviewed and continually monitored by the Company's top management whose duty is to constantly improve and amend it in accordance with requirements of relevant standards and international business practice.

## WE ACT IN ACCORDANCE WITH ACCEPTED QUALITY PRINCIPLES

Continuous improvement of ENTEL's Quality, Environmental Protection, Occupational Health and Safety, Information Security and Energy Management System in compliance with ISO 9001, ISO 14001, ISO 45001, ISO 50001 and ISP/IEC 27001.

Uncompromising commitment to customers' satisfaction is one of the highest priorities in our Company.

Commitment and personal involvement from top management down, including all of our employees in creating and implementing clear quality values and goals consistent with the objectives of the company.

Continuous improvement of all operations and activities through application of advanced technologies and up-to-date practices, while adopting the highest standards in our field that will enable professional excellence to be achieved.

Employing competent and qualified engineers and experts with emphasis on their further education, training and development.

We are fully committed to prevent or minimize any harmful environmental impact, both with respect to project design solutions and activities carried out by its personnel and business associates. In addition, occupational health & safety, energy management and information security management aspects of ENTEL's activities are constantly controlled, monitored and improved.

Dedication and implementation of IMS policy is best depicted in the numerous quality awards received. ENTEL was the proud recipient of prestigious national QUALITY OSCAR awards, was named the best SME in Serbia and was also awarded the BEST OF THE BEST award as the best among the QUALITY OSCAR winners over the past decade.



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# AWARDS AND RECOGNITIONS

## PROGRESS AND ACHIEVEMENTS RECOGNIZED

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As a reliable and trustworthy partner, Energoprojekt ENTEL has received numerous awards and recognitions from Clients, reputable institutions and business partners.

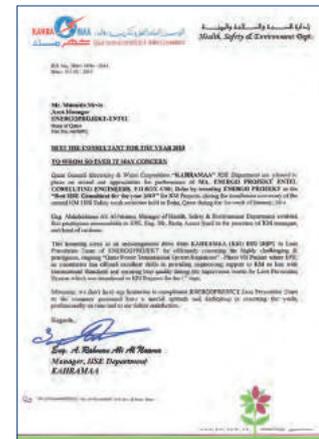
Being known for high performance targets that we are continuously setting for ourselves, we are proud that our expertise, dedication and commitment is recognized and valued.

As a recipient of the Leader in Sustainable Development and Competiveness Award, ENTEL is dedicated to keep contributing to the sustainability of the energy and water sectors. We are firmly devoted to the implementation of all available energy efficiency and energy saving measures, conservation of natural resources, protection of biodiversity and health of human population.

Together with the Society of Thermal Engineers of Serbia, each year ENTEL organizes the traditional annual event ENERGY DAY - SERBIA, carried out under the umbrella of the EU Sustainable Energy Week. This high-level event brings together experts from the governmental, educational and business sector to discuss the regional energy situation while exchanging ideas, experiences and best practice examples.

Acknowledgments are also received from the international students who visit ENTEL each year as a part of their IAESTE (International Association for the Exchange of Students for Technical Experience) program.

Awards and recognitions received have continuously demonstrated the company's excellence in leadership, strategic thinking and planning, management of human and other resources, as well as process management, thereby achieving client satisfaction and satisfaction of its employees, while also achieving excellent business results.



المؤسسة العامة للقطر للكهرباء والماء  
Qatar General Electricity & Water Corporation

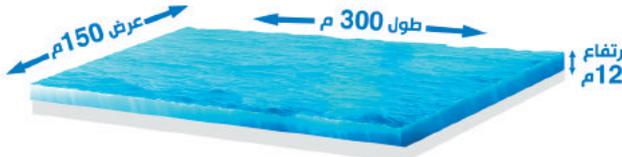
# أكبر

خزان لمياه الشرب  
في العالم

# LARGEST

Drinking Water  
Storage Tank





عرض 150م  
طول 300م  
ارتفاع 12م



أكبر خزان لمياه الشرب يبلغ حجمه 436,633.45 متر مكعب (96,045,931 جالون إمبراطوري، 115,346,354 جالون أمريكي)، وقد حققته المؤسسة العامة القطرية للكهرباء والماء - كهرماء (قطر)، في الدوحة، قطر في 25 يناير 2020.

The largest drinking water storage tank measures 436,633.45 m<sup>3</sup> (96,045,931 Imperial Gallons, 115,346,354 US Gallons) and was achieved by Qatar Electricity and Water Corporation - Kahramaa (Qatar), in Doha, Qatar on 25 January 2020.

km.qa

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# Selected References



2015

2026

# RENEWABLE ENERGY GENERATION

Recognizing the important role of renewables in the global energy market, Energoprojekt ENTEL has been actively building its portfolio in the field of renewable energy and energy efficiency.

Project Title	Client	Country	Year of Completion
WFK Ražanj 2 (86,8 MW) - Preparation of Prefeasibility Study, Preliminary and Design for Building Permit	BAT WIND POWER PLANET DOO	Serbia	Ongoing
Solar PV Plant Bela Palanka (150 MW) - Preparation of complete Design Documentation for construction of the Plant, including: Solar PV Plant, SS 400/35kV, BESS, 400kV Switchyard, 400 kV OHL between SS 400/35kV and Switchyard, two 400 kV OHLs for connection of existing 400 kV (between SS Niš 2, Serbia, and SS Sofia, Bulgaria)	AVR SOLAR PARK ISTOK DOO	Serbia	Ongoing
Construction of Wind Farm KOSTOLAC (66 MW) - Consultancy Services including: FIDIC Engineer role, Tender preparation, bid evaluation, supervision and design review, Contract management	Electric Power Industry of Serbia - EPS	Serbia	Ongoing
Construction of Wind Power Plant ČIBUK 2 (155 MW) - FIDIC Engineer role	ČIBUK 2 WIND ENERGY (Masdar Taaleri Generation company)	Serbia	Ongoing
2 GW Solar PV Plant, Dukhan – Engineering Consultancy Services covering pre-feasibility and full grid compliance / grid impact power system studies for a 2,000 MWp solar PV plant connected to the KAHRAMAA transmission network, including steady-state, dynamic and EMT analyses, power quality and curtailment assessment, utility-grade network modelling and grid code compliance verification	Samsung C&T (QatarEnergy)	Qatar	Ongoing
Construction of Al Dur Solar Photovoltaic (SPV) Power Stations - Comprehensive Engineering Consultancy Services for the connection of Al Dur Solar Plant to the 66kV transmission network	Electricity & Water Authority - EWA	Bahrain	Ongoing
Strategic Production Portfolio Development of Electric Power Industry of Serbia - Consultancy Services for selection of the best projects for investment	Electric Power Industry of Serbia - EPS	Serbia	Ongoing



Project Title	Client	Country	Year of Completion
Construction of New Hydrogen Facilities and Seasonal Thermal Storages within the Electric Power System of Serbia – Feasibility Study	Electric Power Industry of Serbia - EPS	Serbia	Ongoing
Integration of New Solar PV (PV3) Plant at Ajban area in Eastern Region of Abu Dhabi (1.5GW) – Consultancy Services for integration of New Solar PV (PV3) Plant including: design review and site supervision during execution and warranty period for PV3 400kV switching station and complete consultancy services for New double circuit 400kV OHL from PV3 to PV2 (90km), LIL0 of PV3 in existing 400kV OHL TWPS-DHMG (1km) and uprating of existing double circuit 400kV OHL PV2-DHFR (19km)	TAQA Transmission	UAE / Abu Dhabi	Ongoing
PV Plant SUNCE TIJOVCA (58MW), SS 110/35kV 2x40MVA, Switchyard 110kV and Connecting to Grid OHL 110kV - Conceptual Design, Preliminary Design, Design for Building Permit	HelloSun doo	Serbia	Ongoing
WPP BANAT 1 (93 MW) - Concept Design, Preliminary Design, Design for Building Permit	Vetroelektrana Banat doo Alibunar	Serbia	Ongoing
WPP BANAT 2 (145 MW) - Concept Design, Preliminary Design, Design for Building Permit	Vetroelektrana Banat-2 doo Alibunar	Serbia	Ongoing
WPP BANAT 3 (93 MW) - Conceptual Design, Basic Design, Design for Building Permit	Vetroelektrana Banat-3 doo Alibunar	Serbia	Ongoing
WPP BANATSKO NOVO SELO (125 MW) - Conceptual Design, Preliminary Design, Design for Building Permit	Vetroelektrana Banat-4 doo Beograd	Serbia	Ongoing
Transmission Network Development for Clean Energy Transition - Consultancy Services	TAQA Transmission	UAE / Abu Dhabi	Ongoing
QatarEnergy Industrial Cities Solar PV Project (875.5 MW) – Grid code compliance and grid impact Power System Studies for two solar PV plants (437.5 MW at Ras Laffan and 438 MW at Mesaieed) – steady-state, dynamic, transient stability, electromagnetic transient (EMT), power quality, protection, arc-flash and RAM studies	Samsung C&T (QatarEnergy)	Qatar	2025



Project Title	Client	Country	Year of Completion
Construction of Solar PV Plant KLENOVNIK (108.9 MW) – Preliminary Study, Prefeasibility Study and Conceptual Design	Electric Power Industry of Serbia - EPS	Serbia	2025
Construction of WPP PLANDIŠTE (93.5 MW) - Technical Due Diligence	Electric Power Industry of Serbia - EPS	Serbia	2024
Construction of Energy-from-Waste (EfW) Plant in Vinča, near Belgrade, with capacity of 340,000 t/year of waste (30 MWel + 56,5 MWth) – Preliminary Design, Design for Building Permit, Detailed Design, Construction Supervision, Permitting services	Beo Čista Energija	Serbia	2024
Solar PV Plant (600 kW) on the roof and car parking canopies of the Public Parking Utility Company Building in the City of Belgrade - Conceptual Design	Public Parking Utility Company, City of Belgrade	Serbia	2024
Integration of New Solar PV Plant (at Al Dhafrah Area, Eastern Region of Abu Dhabi), 1.5GW - largest single site PV plant in the world - Consultancy Services including: design review and site supervision during execution and warranty period for PV2 400kV switching station and integration works in LDC of the switching station and Solar PV2 plant	TAQA Transmission	UAE / Abu Dhabi	2024
Construction of Wind Farm VETROZELENA (300 MW) – Conceptual Design, Preliminary Design, Design for Building Permit and Permitting Services	CWP Global	Serbia	2023
Construction of Wind Farm BAŠAID (84 MW) - Conceptual Design, Preliminary Design, Design for Building Permit, Permitting Services	Basaid Wind Farm	Serbia	2023
Construction of Ground Solar PV Plants in the Refinery Complex of the Serbian Petroleum Industry (7,5 MW)	Petroleum Industry of Serbia - NIS	Serbia	2023
QP Solar Plants (800 MWac) – Preparation of a Model Power Purchase Agreement (PPA) for KAHRAMAA's procurement of solar energy from 800 MWac PV plants at Ras Laffan and Mesaieed, covering technical, commercial, and legal structuring, including tariff evaluation, deemed energy and curtailment provisions, grid interconnection and operational terms, and stakeholder coordination	Qatar General Electricity & Water Corporation – KAHRAMAA	Qatar	2023



Project Title	Client	Country	Year of Completion
Roof PV panels installation on the buildings and land owned by Petroleum Industry of Serbia - Techno - economic analysis	Petroleum Industry of Serbia - NIS	Serbia	2022
Al Kharsaah Independent Solar PV Plant (800 MW) – Consultancy Services for 220/132/33 kV grid connection equipment, including 220/132 kV and 132/33 kV substations, for solar PV plant grid integration - power system studies, concept design, design review, and site supervision	Power China / Sinohydro (Siraj 1)	Qatar	2022
QatarEnergy Industrial Cities Solar PV Project (875.5 MW) – Pre-tender 220 kV grid connection studies for two solar PV plants (437.5 MW at Ras Laffan and 438 MW at Mesaieed) - steady-state, power quality and reactive power capability studies, including equipment verification	Larsen & Toubro	Qatar	2022
Roof Solar PV Plant in the Refinery Complex of Petroleum Industry of Serbia (2,4 MW) – Conceptual Design Services	Petroleum Industry of Serbia - NIS	Serbia	2022
Construction of Wind Farm ALIBUNAR 1 (96,6 MW) and ALIBUNAR 2 (71,4 MW) - Design Services for modification of Building Permit	WindVision	Serbia	2021
NEOM Green Hydrogen Project – Power system review and validation studies for the 380 kV transmission system, including steady-state and N-1 contingency studies, thermal capacity assessment, overhead line-to-underground cable transition analysis, and line shunt reactor sizing.	Larsen & Toubro (Neom Green Hydrogen Company and Air Products)	Saudi Arabia	2021
Al Kharsaah Independent Solar PV Plant (800 MW) – Pre-tender grid connection studies for integration of a new solar PV plant into the KAHRAMAA 132 kV and 220 kV transmission network, covering steady-state, power quality, reactive power compensation, and transformer sizing studies	Larsen & Toubro	Qatar	2019
Construction of Wind Farm KOVAČICA (104,5 MW) - Design for Execution (roads and foundations)	CJR Renewables	Serbia	2018
Construction of Wind Farm ČIBUK 1 (160 MW) - Design for Execution for WTG foundation	CJR Renewables	Serbia	2018
Construction of Wind farm PLANDIŠTE (93.5MW) - Modification of Design for Building Permit	Wind Park Plandište	Serbia	2018
Construction of Wind Farm BELAANTA (120MW) - Consultancy Services related to review and approval of Final Design	Wellbury - Bela Anta	Serbia	2017
Construction of Wind Farm ČIBUK 1 (160 MW) including connection to the transmission grid - Feasibility Study, Basic Design and Final Design	Vetroelektrane Balkana	Serbia	2017

Project Title	Client	Country	Year of Completion
Construction of Solar PV Plant on the Roof of the UN House in Belgrade - Consultancy Services related to development of Conceptual Design	United Nations Development Programme - UNDP	Serbia	2016
Construction of Wind Farm ALIBUNAR 1 (99 MW) - Consultancy Services related to review and approval of Final Design	WindVision Wind Farm A	Serbia	2016
Construction of Wind Farm ALIBUNAR 2 (75 MW) - Consultancy Services related to review and approval of Final Design	WindVision Wind Farm B	Serbia	2016
Construction of Solar PV Plant on the Roof of Football Stadion RAJKO MITIC in Belgrade - Business Plan preparation	Donation of Energoprojekt ENTEL	Serbia	2015



# THERMAL POWER GENERATION

Our engineers continue to provide a consistently high level design and consulting services, with dedicated involvement in the planning and construction of modern and efficient power generation capacities.

Project Title	Client	Country	Year of Completion
Consultancy Services for Construction of New Unit in TPP KOSTOLAC B, 350 MW - FIDIC Engineer, Construction Supervision, Technical control of Design for Building Permit	Electric Power Industry of Serbia - EPS	Serbia	Ongoing
Consultancy Services for Construction of District Heating System for supply of base heat of Belgrade (over 29 km distance, 1.000mm diameter, 600 MW capacity) and heating of Obrenovac City (200MW capacity) from TPP Nikola Tesla A – Design for Building Permit, Design for Execution, As built design	Millennium Team (Power China)	Serbia	Ongoing
Consultancy Services for Construction of Energy-from-Waste (EfW) Plant in Vinča, near Belgrade, with capacity of 340,000 t/year of waste (30 MWeI + 56,5 MWth) – Permitting services	Beo Čista Energija	Serbia	Ongoing
Review and approval of the Technical Documentation for the Retrofit of the Boiler at Thermal Power Plant Pljevlja (225MW)	Electric Power Industry of Montenegro - EPCG	Montenegro	Ongoing
Construction of hydrogen and hydrogen based fuels production facilities and seasonal thermal storages – Tecno economic analysis of possibilities and feasibility	Electric Power Industry of Serbia - EPS	Serbia	Ongoing
Consultancy Services and technical support for the Belgrade and Obrenovac District Heating supplied from TPP Nikola Tesla A	Electric Power Industry of Serbia - EPS	Serbia	Ongoing
Construction of FGD plant in TPP Nikola Tesla A, Units A3-A6 (4 x 350MW) - Construction Supervision + Technical Control of Design Documentation	Electric Power Industry of Serbia – EPS	Serbia	Ongoing
Consultancy Services for New Production Facility E (Greenfield IWPP Plant - 2400MW and 100 MIGD) – Technical, financial and legal services from tender preparation and evaluation through to financial close	Qatar General Electricity & Water Corporation – KAHRAMAA	Qatar	Ongoing



Project Title	Client	Country	Year of Completion
Construction of Backup Power Plants at Dukhan Air Base (49.5 MW + 16.5 MW standby) & North Camp Al Shamal (66 MW + 16.5 MW standby) Sites – Detail Design and Engineering Services	BHDR (QAF)	Qatar	2024
Consultancy Services for Construction of Energy-from-Waste (EfW) Plant in Vinča, near Belgrade, with capacity of 340,000 t/year of waste (30 MWeI + 56,5 MWth ) – Basic Design, Design for Building Permit, Detailed Design and As-built design preparation, Construction Supervision	Beo Čista Energija	Serbia	2024
Construction of Gas-fired Power Plants within locations of Electric Power Industry of Serbia: Analysis of Potential Locations – Consultancy Services for Technical, Market and Feasibility Considerations	Electric Power Industry of Serbia - EPS	Serbia	2023
Consultancy Services for construction of new gas-fired 200 MW CHP Pančevo (facility in the complex of Petroleum Industry of Serbia) – Preparation of Design for Building Permit, Design for Execution, As Built Design and Permitting services	Shanghai Electric Europe (GASPROM ENERGOHOLDING)	Serbia	2022
Consultancy Services for Boiler Rehabilitation with NOx Emission Reduction at TPP Nikola Tesla B1 (650MW) - Technical control of the project (expert analysis of the thermal calculation of boiler with CFD analysis, hydrodynamic and gas-dynamic calculation, approval of Conceptual design, Preliminary design, and Design for execution)	Electric Power Industry of Serbia - EPS	Serbia	2021
Completion of Construction of TPP Kolubara B (350 MW) - Design document preparation (Conceptual Design, Basic Design and Feasibility Study, Environmental Impact Assessment Study), Bidding document preparation, selection of the preferred Bidder and Contract negotiations, Permitting Services	Electric Power Industry of Serbia - EPS	Serbia	2021



Project Title	Client	Country	Year of Completion
Reconstruction of Units 1 and 2 in TPP Nikola Tesla A (2x210 MW) aimed at Power Upgrade and Extension of the Units Lifetime - Feasibility Study and Basic Design	Electric Power Industry of Serbia - EPS	Serbia	2020
Reconstruction of TPP Kostolac A (100 MW + 210 MW) aimed at Power Upgrade and Extension of the Units Lifetime - Feasibility Study and Basic Design	Electric Power Industry of Serbia - EPS	Serbia	2019
Belgrade District Heating Project: heat supply from TPP Nikola Tesla A, 800 MWth – Technical and economic optimization	Electric Power Industry of Serbia - EPS	Serbia	2018
Installation of deNOx-system in TPP Nikola Tesla A, Unit 4 (329 MW) - FIDIC Engineer Role	Electric Power Industry of Serbia - EPS (KfW)	Serbia	2018
Reduction of NOx Emissions in TPP Kostolac B, 2x348,5 MW by implementation of primary reduction measures - Feasibility Study and Basic Design	Electric Power Industry of Serbia - EPS	Serbia	2017
Reduction of NOx Emissions in TPP Nikola Tesla A, Unit 6 (347,5 MW) and TPP Nikola Tesla B (2x 620 MW) by implementation of primary reduction measures - Feasibility Study and Basic Design	Electric Power Industry of Serbia - EPS	Serbia	2017
Construction of Saih aal Khairat Power Station (6x11 MW) - Design & engineering services	Rural Areas Electricity Company - RAECO	Oman	2017
Rehabilitation of TPP Kostolac B1, 350 MW and Construction of Flue Gas Desulfurization plant (the first FGD in Serbia) for Units B1 and B2 - Technical Support and Construction Supervision	Electric Power Industry of Serbia - EPS	Serbia	2017
Utilization Possibilities and Operational Future of Small TPP Units of Electric Power Industry of Serbia: TPP Nikola Tesla A1 and A2 (2x210 MW), TPP Kolubara A (3x32 MW+65 MW+110 MW), TPP Kostolac A1 & A2 (100 MW+ 210 MW) and TPP Morava (120 MW)	Electric Power Industry of Serbia - EPS	Serbia	2016
Reconstruction of TPP Nikola Tesla, Unit A4 (335,3 MW), aimed at Power Upgrade and Extension of Lifetime - Basic Design and Feasibility Study	Electric Power Industry of Serbia - EPS	Serbia	2016
Adaptation of Pneumatic Ash Removal System in TPP Kostolac B1 (348.5 MW) - Design services (process-mechanical design)	FL Smidth Hamburg GmbH (Electric Power Industry of Serbia - EPS)	Serbia	2015
Additional Capacity Implementation (ACI) as greenfield IWPP facility (2400 MW and 130 MIGD) (defining directions for the short/medium electricity/water generation system development, including term extension and water production expansion of existing plants and construction of greenfield IWPP facility) - Consultancy Services for construction	Qatar General Electricity & Water Corporation – KAHRAMAA	Qatar	2015
Reconstruction of ESP in TPP Nikola Tesla A, Unit 3 (328,4 MW) - Detailed Design	Electric Power Industry of Serbia - EPS	Serbia	2015

# POWER TRANSMISSION LINES AND SUBSTATIONS

ENTEL has participated in the development of power transmission systems of Serbia, Qatar, Oman and United Arab Emirates and several other Middle East countries.

Project Title	Client	Country	Year of Completion
CO <sub>2</sub> Sequestration Project - Consultancy Services for 132 kV power supply infrastructure including new 132/33 kV SS, modification of 132 kV SS and 14 km of 132 kV double-circuit underground cable lines with fibre optic links - design review, interface coordination, site supervision, commissioning and energization	Samsung C&T (QatarEnergy LNG)	Qatar	Ongoing
Consultancy Services for Construction of 400 kV Grid Station at Al Nouf Stage-1 generation plant - Conceptual design, EPC tender preparation, tendering, tender evaluation and contract award, Site Supervision and warranty period	TAQA Transmission	UAE / Abu Dhabi	Ongoing
Power Supply to Al Maktoum International Airport – 3+5 132/11 kV SSs and 44 km of 132 kV cables – Consultancy Services for Preliminary Design including BIM model preparation, tendering, Project Management, design review considering BIM, Site Supervision, commissioning and reliability run/warranty services	DAR (DAEP)	UAE / Dubai	Ongoing
EPIC for NGL-5 Project, Mesaieed – Consultancy Services for 220 kV grid connection works for a Natural Gas Liquids (NGL) processing facility, including 220/33 kV SS, 500 m of 220 kV cables and modification of 220 kV SS - design review, interface coordination, site supervision, commissioning and energization	L&T (QatarEnergy)	Qatar	Ongoing
Qatar Power Transmission System Expansion, Bulk Customers and KAHRAMAA Network – Engineering Consultancy Services for 2x400 kV and 1x220 kV SSs, 42 km of 400 kV and 40 km of 220 kV cable lines and 150 km of 400 kV, 55 km of 220 kV and 10 km of 132 kV OHL - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	Qatar General Electricity & Water Corporation – KAHRAMAA	Qatar	Ongoing



Project Title	Client	Country	Year of Completion
132 kV Power Supply to Ras Laffan Petrochemicals – Ethylene Storage Plant – Consultancy Services for a new 33 kV SS, modification of 220/33 kV GIS bays and 3.5 km of 33 kV double-circuit underground cable line with fibre optic links - FEED and Detailed Design, design review, interface coordination, site supervision and commissioning	Samsung E&A-CTCI JV - SCJV (QatarEnergy - Chevron Phillips Chemical Company)	Qatar	Ongoing
Provision of Additional 50 MW Power to Maintain N+1 Spinning Reserve for QG-2 Train 4/5 – Consultancy Services for 3.5 km of 33 kV double-circuit underground cable line with fibre optic links modification of 220/132/33 kV and 66/33 kV SSs, including SCADA, telecommunications, and substation control system (SCS) integration - design review, interface coordination, site supervision and commissioning	Galfar (QatarEnergy LNG)	Qatar	Ongoing
Construction of 400 kV Interconnection OHL BREZNA – CRKVIČKO POLJE (Montenegro) – SARAJEVO (Bosnia & Herzegovina) - Basic Design, Feasibility Study, ESIA Scoping Study	European Investment Bank - EIB	Montenegro	Ongoing
Electrical - Distribution Network of Kraljevo, Niš and Kragujevac - Design preparation and construction supervision services for reconstruction of existing SS 110/35/10 kV Ivanjica, SS 110/35 kV Guča, SS 110/35 kV Kosjerić, and construction of new SS 110/35 kV Niš 16 and MV SS Power Distribution Facilities	Serbian Distribution System Operator - EDS	Serbia	Ongoing
400 kV and 132 kV Power Supply to North Field South (NFS) LNG Facilities – Consultancy Services for 400/220 kV and 132/33 kV SSs, 6.5 km of 400 kV and 1.5 km of 132 kV double-circuit underground cable lines with fibre optic links, modification works at 400 kV and 220/132/33 kV SSs and SCADA, telecom and SCS systems integration - site survey, support during procurement, design review, interface coordination, site supervision, commissioning and switching operations	Technip Energies (QatarEnergy LNG)	Qatar	Ongoing



Project Title	Client	Country	Year of Completion
Consultancy Services - Cable line 110kV SS Belgrade 6-SS Belgrade 45 – Preparation of design documentation from Conceptual up to As built design and technical specification for tender purposes	Serbian Transmission System Operator “Elektromreza Srbije” - EMS	Serbia	Ongoing
132 kV Power Supply to Ras Laffan Petrochemicals Project - Polyethylene Plant – Consultancy Services for 132/33/11 kV SS, 2x132 kV GIS bays extension and 12 km 132 kV double-circuit underground cable line with fibre optic links - site survey, design review, support during procurement, interface coordination, site supervision and commissioning	Tecnimont Spa (QatarEnergy - Chevron Phillips Chemical Company)	Qatar	Ongoing
Qatar Power Transmission System Expansion for Strategic Projects – Consultancy Services for modifications of 400/220/132/11 kV and 220/132/11 kV SSs, construction of 2x132/11 kV and 1x66/11 kV SSs, 20 km of 220 kV and 54 km of 132 kV double circuit OHLs - Project Management, Detailed Design and Engineering	Voltage (KAHRAMAA)	Qatar	Ongoing
Rectification of 33 kV Overhead Lines in DCA (Dukhan Concession Area) Consultancy Services for the replacement and rerouting of 21 existing 33 kV OH lines (~105 km) with 13 new OH lines and 8 new underground cable lines, including RMUs, fibre optic links, sag correction, corrosion and induced voltage mitigation and full SCADA and telecom system integration - Detailed Design and Engineering	Voltage (QatarEnergy)	Qatar	Ongoing
Al Wakra & Al Wukair Sewage Treatment Plant - Consultancy Services for the construction of 132/11 kV SS including all associated works - Project Management, Detailed Design and Engineering	Voltage (Al Wakra Water Contracting W.L.L)	Qatar	Ongoing
Construction of New Sitra 400 kV Grid SS and Subsystem - Engineering Consultancy Services for 400/220/21 kV SS, 7.2 km of 400 kV, 4.5 km of 220 kV and 4 km of 66 kV cable lines - power system studies, full-scope Project Management, EPC tendering, bid evaluation, contract negotiations, design review, FATs, Site Supervision, commissioning and claim/warranty support	Electricity & Water Authority - EWA	Bahrain	Ongoing
Construction of New 66 kV Substations - Engineering Consultancy Services for 11x66 kV SSs and 128 km of 66 kV cable lines - full-scope Project Management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, commissioning and claim/warranty support	Electricity & Water Authority - EWA	Bahrain	Ongoing
Construction of Al Dur Solar Photovoltaic (SPV) Power Stations - Engineering Consultancy Services for the connection of Al Dur Solar Plant to the 66 kV transmission network including the construction of a new 33 kV SS, modification of the existing 66 kV SS and installation of a 66 kV cable connection - power system studies review, full-scope Project Management, design review, site supervision, commissioning and claim/warranty support	Electricity & Water Authority - EWA	Bahrain	Ongoing



Project Title	Client	Country	Year of Completion
Consultancy Services for Construction of 400/132 kV WADI LATHAM Grid Station, associated 400 kV LILO and 132 kV SAFAH GS and Associated OHL "OXY network Connection" - Design and Supervision services	Oman Electricity Transmission Company - OETC	Oman	Ongoing
Consultancy Services for Construction of 400 kV HARWEEL WIND FARM Grid Station along with Associated 400 kV LILO OHL from Shaleem to Dhorar - Design & Supervision Services	Oman Electricity Transmission Company - OETC	Oman	Ongoing
Consultancy Services for Construction of 400 kV Grid Station at IBRI III SOLAR PV IPP and associated 400 kV LILO from IPP NAHADA - Design & Supervision Services	Oman Electricity Transmission Company - OETC	Oman	Ongoing
Consultancy Services for Construction of 3 Nos. 132/11kV SSs and Associated Works for the Oasis Development and Dubai South projects covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	EMAAR	UAE / Dubai	Ongoing
Consultancy Services for Construction 3 Nos. of 132/11kV SSs and Associated Works for Venice Development project covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	AZIZI	UAE / Dubai	Ongoing
Consultancy Services for Construction of 2 Nos. 132/11kV SSs and Associated Works for the Lagoons Development project covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	DAMAC	UAE / Dubai	Ongoing
Consultancy Services for Construction of 132/11kV SS and Associated Works for Dubai Maritime City at Port Rashid covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	DP World	UAE / Dubai	Ongoing
Consultancy Services for Construction of 132/11kV SS and Associated Works for Sobha One Development at Ras Al Khor covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	SOBHA	UAE / Dubai	Ongoing
Consultancy Services for Construction of 400kV Overhead Line Works Associated with Shurooq 400/132kV SS covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Dubai Electricity and Water Authority - DEWA	UAE / Dubai	Ongoing
Consultancy Services for Construction of 400kV Oman Direct Link of GCCIA covering the 540km of 400kV OHL line connecting the grid to Oman & Saudi Arabia passing through UAE and 2 Nos. of 400kV SS in UAE and Oman covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	GCC Interconnection Authority - GCCIA	UAE / Dubai	Ongoing

Project Title	Client	Country	Year of Completion
Consultancy Services for Dynamic (STATCOM) & Static Reactive Power Compensation Works in Eastern Region of Abu Dhabi Emirate. Works included Dynamic (STATCOM +/-300MVar) and Static (2x100MVar) compensation of Reactive energy at 220kV and 132kV voltage level in TAQA-Transmission network. Consultancy services covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	TAQA Transmission	UAE / Abu Dhabi	Ongoing
Consultancy Services for STATCOMs in KSA and UAE Works included new +/-500MVar STATCOMs at 400kV Al Fadhilli SS in KSA and 400kV Baynounha SS in UAE, which are owned by GCCIA (GCC Interconnection Authority) covering: full-scope Project Management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	GCC Interconnection Authority - GCCIA	UAE and Kingdom of Saudi Arabia	Ongoing
Consultancy Services for Construction of New 220/33 kV GREEN MUBAZARA Grid Station with related OHL works in Alain Region	TAQA Transmission	UAE / Abu Dhabi	Ongoing
Consultancy Services for Construction of New SHAKBOUT City 132/11kV and 132kV Cable/OHL Works, and grid reinforcement in Northern Emirates (expansion of Wasit, Fila 400kV grid stations and 3 nos. 132kV filter/capacitor banks	TAQA Transmission	UAE / Abu Dhabi / Northern Emirates	Ongoing
Consultancy Services for OHTL Works for HAIL and GHASHA Net-zero Offshore Natural Gas and Hydrogen Production Plant, with complete CO2 emissions captured onshore. Service includes: two 7km of 220kV OHTL (500MVA) between Volta 400/220kV Grid Station and ADNOC HGD Station and related 220kV cable, SS and integration works	TAQA Transmission	UAE / Abu Dhabi	Ongoing
Consultancy Services for 220kV Reinforcements Works between 220kV SHME, SMHG and GNTT SSs in Eastern Region Area of Abu Dhabi	Abu Dhabi Transmission and Despatch Company - TRANSCO	UAE / Abu Dhabi	Ongoing
Consultancy Services for Power Supply for Multiple Locations – Conceptual design, EPC tender preparation, tendering, tender evaluation and contract award for 3 new 400kV and 220kV SSs, extension of existing 400kV SS and 53km of 400kV OHL	Abu Dhabi Transmission and Despatch Company - TRANSCO	UAE / Abu Dhabi	Ongoing
Construction of a 132/33 kV SS with multiple interconnections to QAPCO and QVC electrical systems via 132 kV and 33 kV cable networks - FEED, full-scope Project Management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, commissioning and claim/warranty support	Qatar Petrochemical Company - QAPCO	Qatar	Ongoing

Project Title	Client	Country	Year of Completion
Qatar Power Transmission System Expansion - Phase 13 – Engineering Consultancy Services for 1x400 kV, 4x220 kV, 12x132 kV and 10x66 kV substations, 36 km of 400 kV, 47 km of 220 kV, 110 km of 132 kV and 22 km of 66 kV cable lines - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing
Qatar Power Transmission System Expansion – Phase 12 – Engineering Consultancy Services for 6x400 kV, 2x220 kV, 5x132 kV, 13x66 kV SSs, 48 km of 400kV, 70 km of 220kV, 55 km of 132 kV OHL and 40 km of 400 kV, 60 km of 220 kV, 68km of 132 kV and 58 km of 66 kV cable lines - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing
QatarEnergy Industrial Cities Solar PV Project (875.5 MW) - Consultancy Services for 2x220/33 kV SSs - design review, interface coordination, site supervision and commissioning	Samsung C&T (QatarEnergy LNG)	Qatar	2025
132 kV Power Supply for North Field Expansion (EPC-2) Project – Consultancy Services for 2x3.2 km of 132 kV double-circuit underground cable lines with fibre optic links, installation of 2x132 kV GIS bays, integration of 132/33 kV transformers and 33 kV GIS, including SCADA, SCS and telecom systems - design review, interface coordination, site supervision and commissioning	Samsung C&T (QatarEnergy)	Qatar	2025



Project Title	Client	Country	Year of Completion
132 kV Power Supply to North Field East (NFE) LNG Facilities - Consultancy Services for 132 kV SS, 3.5 km of 132 kV double-circuit underground cable line with fibre optic links, modification of 220/132/33 kV SS and integration of SCADA, telecom and SCS systems - conceptual (FEED) design, inquiry documentation, subcontractors' evaluation, design review, site supervision and commissioning	Chiyoda Corporation- Tecnip JV - CTJV (QatarEnergy LNG)	Qatar	2025
Construction of 400 kV Queen Alia International Airport GIS SS and Extension of Queen Alia International Airport 132 kV SS - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	National Electricity Power Company - NEPCO	Jordan	2025
Consultancy Services for Construction of New 400/132 kV Grid Station at Rusail and addition of 2x500 MVA 220 kV Transformer at MISFAH GS with Associated OHL - Design and Supervision	Oman Electricity Transmission Company - OETC	Oman	2025
Provision of Additional 50 MW Power to Maintain N+1 Spinning Reserve for QG-2 Train 4/5 - Consultancy Services for 3.5 km of 33 kV double-circuit underground cable line with fibre optic links modification of 220/132/33 kV and 66/33 kV SSs, including SCADA, telecommunications and substation control system (SCS) integration - FEED preparation	Technip Energies (QatarEnergy LNG)	Qatar	2024
Construction of 4 Grid stations 400/132kV (GS Bariq, GS Suwayhat, GS Duqm and GS Mahout) and 660km of double circuit OHL - Design and Supervision	Oman Electricity Transmission Company - OETC	Oman	2024
Consultancy Services for Upgrading of NIZWA Grid Station to 220kV, Construction of New IZKI - NIZWA 220kV Transmission Line and Adding One 500MVA, 400/220kV Transformer at NEW IZKI Grid Station - Design and Supervision	Oman Electricity Transmission Company - OETC	Oman	2024
Qatar Power Transmission System Expansion - Phase 11 - Engineering Consultancy Services for 6x220 kV, 13x132 kV, 22x66 kV SSs, 163 km of 220 kV, 91 km of 132 kV, and 164 km of 66 kV cable lines - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2024
Consultancy Services for Construction of Two New 200/33kV Grid Stations (Al Faydha and Al Towayya) and all related 220kV OHL/Cable Works in Al Maqam (Al Ain)	Abu Dhabi Transmission and Despatch Company - TRANSCO	UAE / Abu Dhabi	2023
Consultancy Services for JADAR Project (Industrial Complex for Lithium Containing Ore Excavation and Treatment), HV Design - Design Documentation preparation, review of vendor documentation for Switchyards 110kV, connecting OHL 110kV and SS Jadar 110/35kV 2x63MVA	Rio Sava Exploration	Serbia	2023
Reconstruction and Modernization of 110/x kV Grid Stations: SS Beograd 10, SS Požarevac 1 and SS Kuršumljija - Feasibility Study and Preparation of Conceptual Design, Preliminary Design and Design for Building Permit	Serbian Electricity Distribution System Operator - EDS	Serbia	2023

Project Title	Client	Country	Year of Completion
Construction of New 400 kV OHL and Reconductoring of Existing 132 kV OHL - Engineering Consultancy Services for the replacement of conventional OHL conductors with HTLS (High Temperature Low Sag) conductors over 102 km of 132 kV OHL and the construction of a new 185 km of 400 kV OHL - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	National Electricity Power Company - NEPCO	Jordan	2023
132 kV Power Supply to North Field East (NFE) LNG Facilities - Consultancy Services for 132/33 kV SS, 3.5 km of 132 kV double-circuit underground cable line with fibre optic links, modification of 220/132/33 kV SS and integration of SCADA, telecom, and SCS systems - site survey, support during procurement, design review, interface coordination, site supervision, commissioning and switching operations	Chiyoda Corporation- Tecnip JV - CTJV (QatarEnergy LNG)	Qatar	2022
132 kV Power Supply to North Field South (NFS) LNG Facilities - Consultancy Services for 132/33 kV SS, 1.5 km of 132 kV double-circuit underground cable line with fibre optic links, modification of 220/132/33 kV SS and control and telecommunication systems - conceptual (FEED) design, inquiry documentation, subcontractors' evaluation and interface coordination	Chiyoda Corporation (Qatargas)	Qatar	2022
Consultancy Services for Construction of 2 Nos. 132/11kVSSs for DPW Developments covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	DP World	UAE / Dubai	2022
Consultancy Services for Construction of 132/11kV SS covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Meydan / Bihar LLC	UAE / Dubai	2022
Consultancy Services for Reinforcement of 400kV DEWA network 5 Nos. of 400/132kV SSs, 120 km of 400 kV OHL and 400 kV Serial Reactor covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Dubai Electricity and Water Authority - DEWA	UAE / Dubai	2022
Primary Electrical Power Substations and its Main Feed (HV Cables) in Ras Abu Fontas Special Economic Zone, Um Alhoul Special Economic Zone and Al Wakrah Logistic - Engineering Consultancy Services for 4x132 kV SSs and 26 km of 132 kV cable lines - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	Manateq	Qatar	2022
132 kV Power Supply to North Field East (NFE) LNG Facilities - Consultancy Services for 132/33 kV SS, 3.5 km of 132 kV double-circuit underground cable line with fibre optic links, modification of 220/132/33 kV SS including protection, control and telecommunication systems - conceptual (FEED) design, inquiry documentation, subcontractors' evaluation and interface coordination	Chiyoda Corporation (Qatargas)	Qatar	2021

Project Title	Client	Country	Year of Completion
Construction of New 132/32 kV MIRBAT Grid Station with 2x63 MVA Transformers - Consultancy Services covering Design & Supervision	Oman Electricity Transmission Company - OETC	Oman	2021
Risk Mitigation in existing 35 Nos. 132/11kV SSs facing the road and Public Areas – Consultancy Services covering: Concept design, full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Dubai Electricity and Water Authority - DEWA	UAE / Dubai	2021
Consultancy Services for Construction of 132/11kV SS at Umm Al Quwain 150 MIGD Sea Water Reverse Osmosis Plant covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Capital Engineering Consultancy	UAE / Dubai	2021
Engineering Consultancy Services for construction of 132/33/11kV, 132/11kV & 33/11kV SS, 132/33kV OHL & Cabling Works in Northern Emirates covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Etihad Water & Electricity - EtihadWE	UAE / Dubai	2021
Consultancy Services for construction of IBRI Solar - PV IPP Project - Connection of 220kV Grid Station (named IBRI SOLAR GS) in the vicinity of Generating Plant; Extension of Existing 220 kV GIS at 400/220kV IBRI IPP GS and Construction a New D/C 220 kV OHL Between IBRI SOLAR GS and 400/220 kV IBRI IPP GS	Oman Electricity Transmission Company - OETC	Oman	2021



Project Title	Client	Country	Year of Completion
Consultancy Services for Construction of 132 kV supply to TAWEELAH RO Plant	SEPCO III	UAE / Abu Dhabi	2021
Consultancy Services for Construction of Three 400/220KV Grid Stations AT SOHAR IPP-3, SOHAR FREE ZONE and SEH ALMAKARM- SIS and associated 400KV OHL and cables - supervision	Oman Electricity Transmission Company - OETC	Oman	2020
Engineering & Site Supervision of DUBAI SHAMAL & SHAMS 400/132kV SSs, 400kV Series Reactor Station and Associated 400kV OHL	Dubai Electricity and Water Authority - DEWA	UAE / Dubai	2020
Consultancy Services for Construction of Sheikh Mohammed Bin Rashid Solar Park 400/132kV SS and Associated Works which will be used for connection of Solar Power Plant to DEWA network covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Dubai Electricity and Water Authority - DEWA	UAE / Dubai	2020
Consultancy Services for Construction of 132/33kV Main Power Stations for RTA Dubai Expo2020 Metro Link Project (power supply to Dubai Metro new line extension to future Expo2020 grounds) covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	Expolink-2020 (RTA)	UAE / Dubai	2020



Project Title	Client	Country	Year of Completion
Construction of 132/11 kV Al Wukair 11 SS and Associated Cable Lines – Engineering Consultancy Services for 132 kV SS, modification of 400 kV SS and 6 km of 132 kV cable line – Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	SAK Trading & Contracting	Qatar	2020
Consultancy Services for Construction of two new 400/220kV Grid Stations at IZKI and MISFAH 400kV Transmission Line (80 -100 km)	Oman Electricity Transmission Company - OETC	Oman	2019
Consultancy Services for Construction of 132/11kV SS for Arabian Ranches 3 Development covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	EMAAR	UAE / Dubai	2019
Engineering Consultancy Services for Etihad Rail Project 2 and 3 Overhead Transmission Line (OHTL) - Modification Works covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	JV of China Railway Construction Corp. / Ghantoor TG Contracting LLC	UAE / Dubai	2019
Consultancy Services for 22kV Power Distribution in Yas K Development, Yas Island	Abu Dhabi Distribution Company - ADDC	UAE / Abu Dhabi	2018
EPIC for Dukhan Township 11 kV Distribution System Upgrade - 11 kV distribution network reinforcement, including new substations, cable ring strengthening, load redistribution, LV network reconfiguration, protection coordinatio and arc-flash analysis - Detailed Design and Engineering Services	Voltage (Qatar Petroleum)	Qatar	2018
Consultancy Services for Construction of 220 /33kV, 2 x 125MVA Grid Station HAY ASIM at BARKA IWPP - preparation of Basic Design and Tender Documents, Tender Technical & Financial Evaluation, Project Management, Design Review and Site Supervision	Oman Electricity Transmission Company - OETC	Oman	2017
Consultancy Services for Construction of New 220kV MUBILA-1 Grid Station - Conceptual Design report and Tender Document Preparation, Tender Evaluation and Construction Supervision	Oman Electricity Transmission Company - OETC	Oman	2017
Consultancy Services for Development of 22kV/LV Power Distribution Networks for AL FALAH TOWN CENTRE	Abu Dhabi Distribution Company - ADDC	UAE / Abu Dhabi	2017
Western Serbia Transmission System Upgrade to 400 kV level Upgrade existing 220kV 400kV double circuit SS Obrenovac SS Bajina Baša to 400kV, and extension of SS 220/35kV Bajina Bašta to 400/220/35kV - Conceptual Design, Basic Design and Feasibility Study	Serbian Transmission System Operator "Elektromreza Srbije" - EMS	Serbia	2017

Project Title	Client	Country	Year of Completion
Construction of Rayyan Village SS & Urgent Upgrade Works - Engineering Consultancy Services for 6x66 kV SSs (3 underground SSs), modification of 2x400 kV and 2x220 kV SSs, 7 km of 220 kV, 11 km of 132 kV and 13 km of 66 kV cable lines - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2017
Implementation of Energy Efficiency Improvement Measures in KAZZINC power transmission grid in Zyryanovsk District	Kazzinc	Kazakhstan	2017
Consultancy Services for construction of 220kV IZKI Grid Station & 400 kV Transmission line from Sur to Izki - Design and Supervision Services	Oman Electricity Transmission Company -OETC	Oman	2016
Dubai International Airport (Upgrade Project) Sub-Consultancy Services to Main Consultant for 132kV Power Supply Upgrade Project covering: full-scope project management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, FATs, commissioning and claim/warranty support	DAR	UAE / Dubai	2016
Construction of 132/13.8 kV SS - Engineering Consultancy Services for 132 kV SS and associated 132 kV cable lines - Site Survey, Detailed Design, full-scope Project Management, EPC tendering, bid evaluation, contract negotiations, design review, site supervision, commissioning and claim/warranty support	Gasal	Qatar	2016
Consultancy Services for Construction of SS 400/110 kV BEOGRAD 20 - Detailed Design Preparation	Serbian Transmission System Operator Elektromreža Srbije - EMS	Serbia	2015
Qatar Power Transmission System Expansion – Phase IX – Engineering Consultancy Services for 2x400 kV, 8x220 kV, 11x132 kV, 14x66 kV SSs, 6 km of 400 kV, 45 km of 132 kV, 100 km of 66 kV and 30 km of 33 kV OHL and 33 km of 220 kV, 120 km of 132 kV and 35 km of 66 kV cable lines - Project Management, tendering, evaluation and award, design review, site supervision, commissioning and claim/warranty support	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2015

# WATER GENERATION, TRANSMISSION & DISTRIBUTION

Energoprojekt ENTEL provides Engineering Consultancy Services for Water Desalination Plants, Water Supply & Transmission Pipelines, Automation of Tanker Filling Stations, Sewage Treatment and similar facilities.

Project Title	Client	Country	Year of Completion
Miscellaneous Works for Potable and Fire Water Network & Pumping Stations at DCA - Upgrades and modifications existing potable and fire water infrastructure, including pumping stations, storage tanks, interconnected distribution networks, hydraulic assessments, electrical and I&C systems and integration with existing fire and safety systems – FEED preparation	QatarEnergy	Qatar	Ongoing
Reinforcement of Al Dakhiliyah Transmission System – Construction of CS DN 700 to DN1700 length 165km, DI DN400 to DN600 length 3km, 5 pump stations, 5 balance reservoirs (25.000m³x2, 20.000m³, 16.000m³ and 4000m³)- Consultancy Services for Preliminary Design, Final Design, Tender Documents and Construction Supervision	Public Authority for Electricity and Water - PAEW	Oman	Ongoing
Reconstruction of New Salwa and Airport Reservoirs and Pumping Stations (RPSs) – Consultancy Services for the reconstruction of potable water infrastructure including new pre-stressed concrete reservoirs (≥23 MIG at New Salwa and ≥32 MIG at Airport), pumping stations, DN1400 ductile iron pipelines, surge suppression, chlorination, electrical and I&C systems, and SCADA integration with the National Control Center - pre-design study, preliminary design, tendering, evaluation and award, design review, site supervision and claim/warranty support	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing



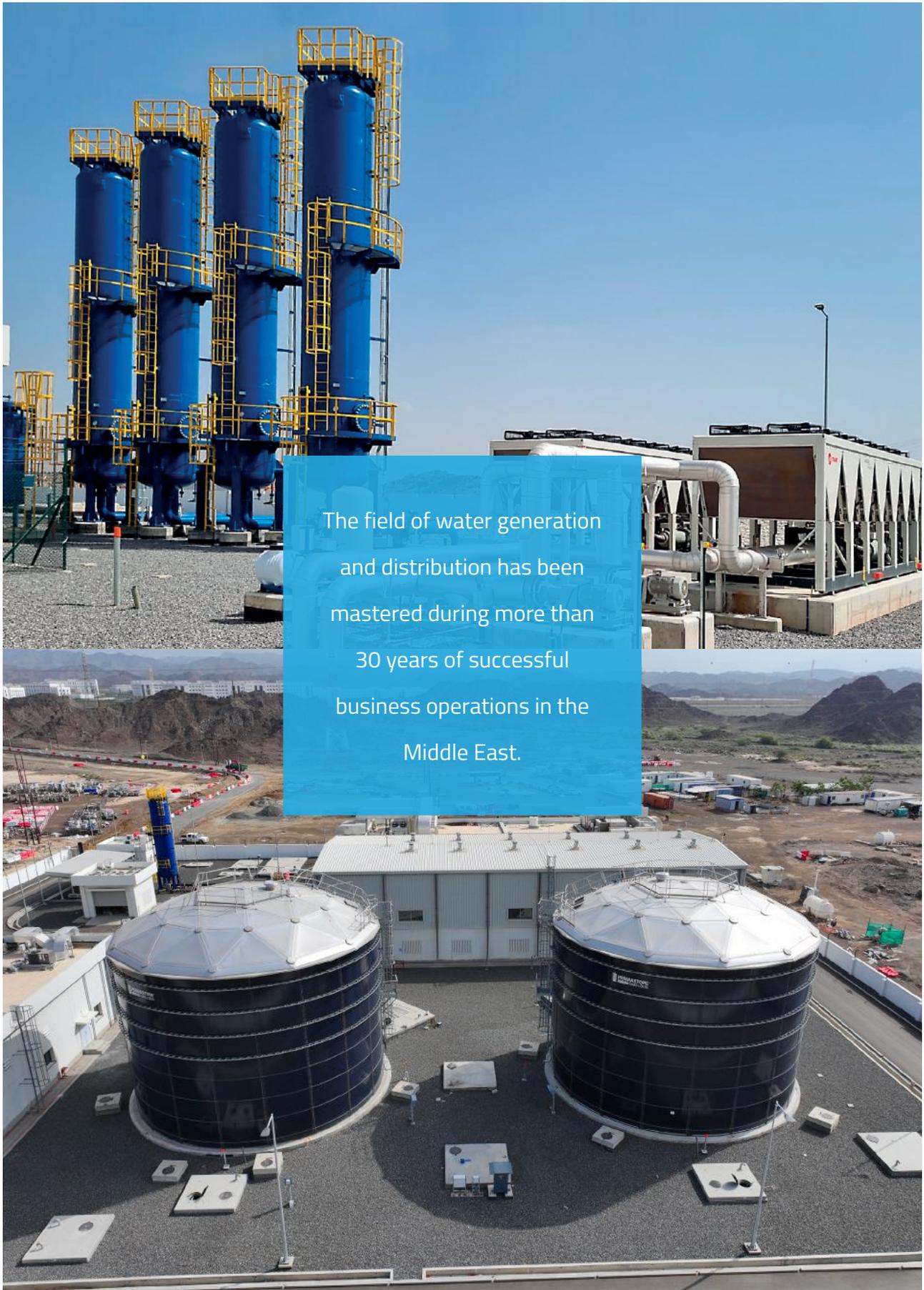
Project Title	Client	Country	Year of Completion
Major Refurbishment, Replacement and Upgrading at Various Water Stations – Consultancy Services for refurbishment and upgrading of major water infrastructure including pumping stations, concrete reservoirs, large-diameter interconnecting pipelines (up to DN1600 ductile iron and DN2400 carbon steel), high-capacity pumping systems, electromechanical and chlorination facilities, instrumentation, surge mitigation, structural rehabilitation, and SCADA integration with the National Control Center (NCC) – site supervision and technical support	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing
New Effluent Water Treatment Plant for NGL at Mesaieed – Detailed Design and Engineering Services for Equalization Tank (1.187,5 m <sup>3</sup> ), Off-Spec Tank (1.187,5 m <sup>3</sup> ), two BTEX Rich Water Equalization Tanks (69 m <sup>3</sup> each), and two Treated Water Irrigation Tanks (605 m <sup>3</sup> each)	Danem (QatarEnergy)	Qatar	Ongoing
Water Connection With New S4 Reverse Osmosis Water Plant - Connection is made by dual CS 1600 pipeline approximately 700m each - Consultancy Services	Abu Dhabi Transmission and Despatch Company - TRANSCO	UAE / Abu Dhabi	Ongoing
Extensions of Water Distribution Networks in Various Areas – Construction of hundreds of km of distribution network as well as transmission lines, various capacity of reservoirs (the smallest one is 2000m <sup>3</sup> ) and pump stations - Preliminary Design, Final Design, Tender Documents preparation, Construction Supervision	Public Authority for Electricity and Water - PAEW	Oman	Ongoing
New Production Facility E (Greenfield IWPP Plant - 2400 MW and 100 MIGD) – Technical, financial and legal services from tender preparation and evaluation up to financial close	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing



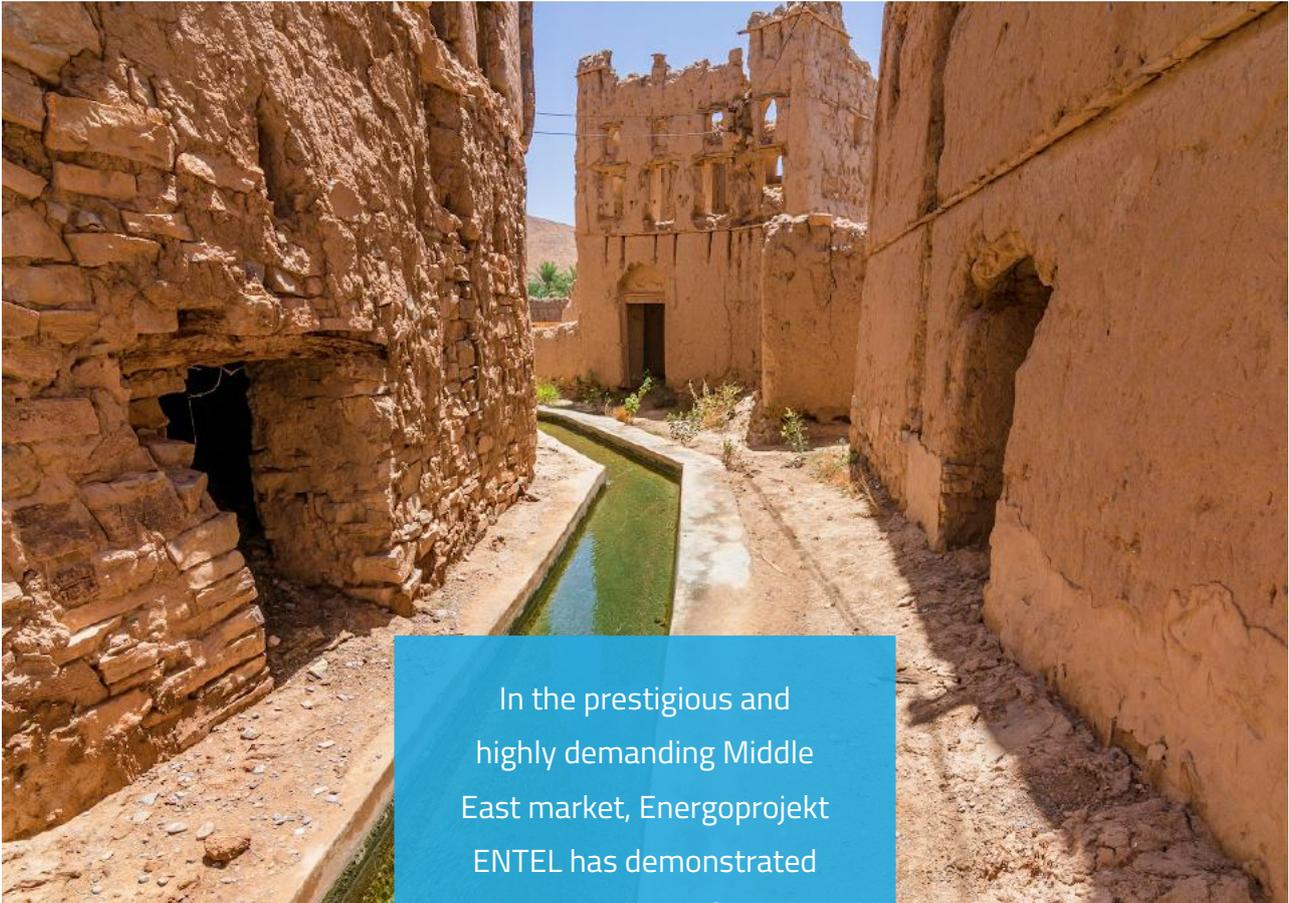
Project Title	Client	Country	Year of Completion
Potable Water Network Upgrade from Jabel Tank Farm to FNDS at Dukhan – 23 km of 12" carbon steel pipelines, a 200m <sup>3</sup> reinforced concrete storage tank, and a new demineralization facility for process water supply - FEED preparation	QatarEnergy	Qatar	2025
Aquifer Storage and Recovery (ASR) System Project – Consultancy Services for a strategic high-capacity ASR system providing 135 million m <sup>3</sup> of potable water storage, including 969 dual-purpose wells, 230 monitoring wells, and an extensive conveyance network comprising approximately 385 km of DN160–DN180 HDPE pipelines and 138 km of DN300–DN900 pipelines - review and gap analysis of feasibility and conceptual design, site investigations and surveys, Preliminary and Detailed Design, hydraulic and surge transient analyses, environmental impact assessment, preparation of construction tender documents and assistance during tendering	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2024
Water Security Mega Reservoirs Project - Project Management Services for development of five strategic potable water reservoir sites, with a total of 15 reinforced concrete reservoirs (each with a capacity of 100 MIG) and pumping stations, along with chlorination buildings and water testing facilities, all interconnected by 650 km of large-diameter pipelines (DN900–DN2400), fully integrated under a centralized SCADA system, forming the largest drinking water storage tank network of its kind in the world, officially recognized by Guinness World Records for the largest concrete drinking water reservoirs	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2024



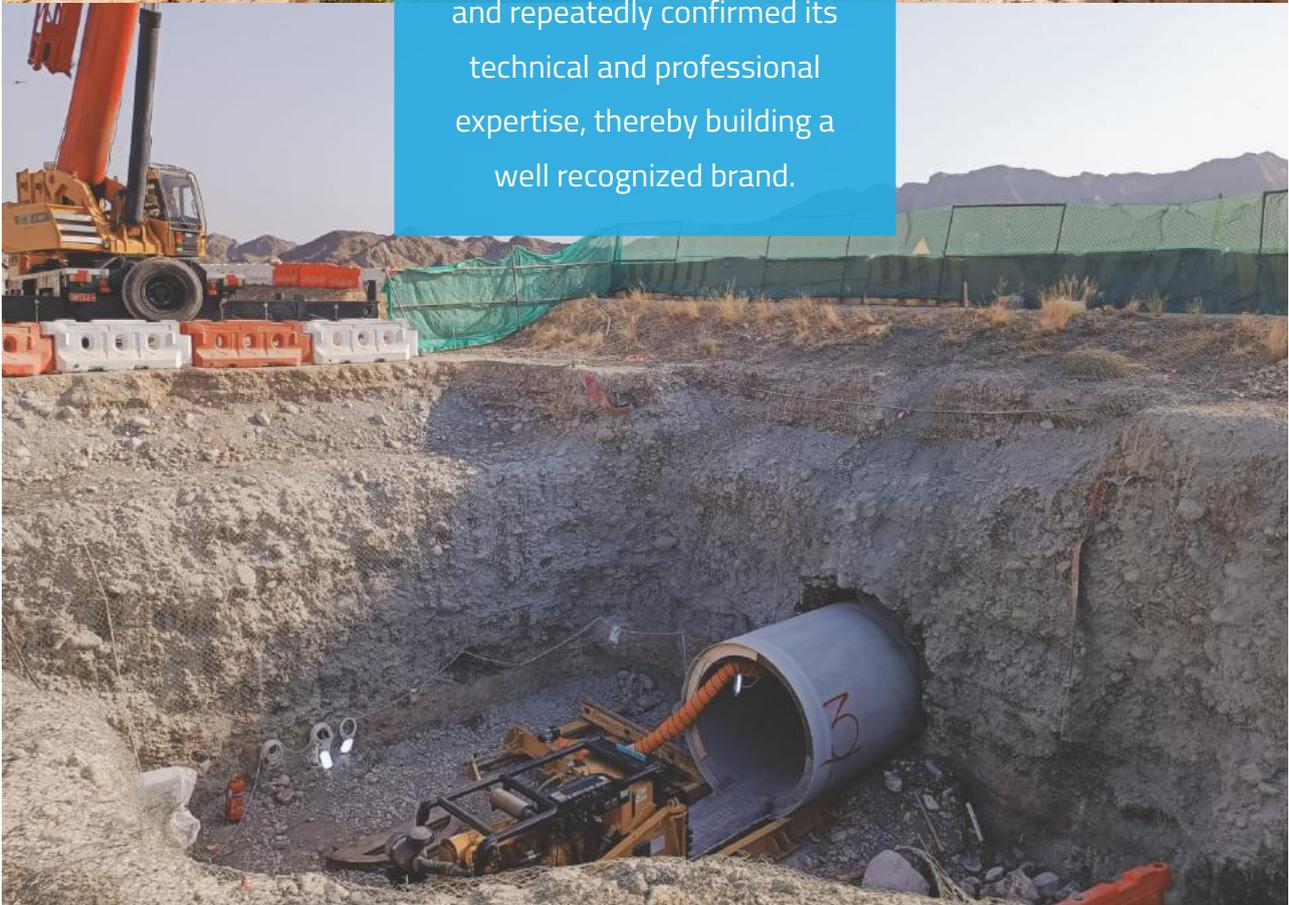
Project Title	Client	Country	Year of Completion
Water Storage Tanks, Pumping Station and Chlorination Building in Dukhan Fields –Construction of two new steel potable water storage tanks of 2 MIG each, a reinforced concrete pump station housing four VFD-controlled potable water pumps, and a chemical store with automated chlorine dosing system, all fully integrated with the Waternet SCADA system for centralized operation and monitoring - Detailed Design and Engineering Services	Tecton (Qatar Petroleum)	Qatar	2023
Al Ansab 1&4, Darsait and Ruwi Wastewater Project – Construction of Sewage system consisting of gravity pipelines 300, 600, 700mm HDPE, two pumping stations and two rising mains 400 and 500mm HDPE covering area of 150.000 inhabitants – Preliminary Design and Supervision services	Haya Water	Oman	2020
RAF-A3 SWRO Desalination Water Project – Technical consultancy services as Assessor for a 36 MIGD seawater reverse osmosis desalination plant comprising 13+1 RO trains, dual offshore intake pipelines, DAF-based pre-treatment, two-pass RO with energy recovery, CO <sub>2</sub> -limestone remineralization and chlorination systems, two 18 MIG concrete storage tanks, a potable water pumping station, over 175 km of DN600–DN1400 transmission pipelines, and full integration with KAHRAMAA's 132/11 kV power supply and the National Control Center (NCC) - Preliminary Design and Supervision Services	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2019
Water Distribution Networks for Wilayat Bidbid in Al Dhakliya Governorate – Construction of 230km HDPE distribution network from DN110 to DN225, up to 60km of DI DN100 to DN500 transmission lines and 7.000m <sup>3</sup> and 11.000m <sup>3</sup> reservoirs - Construction Supervision	Public Authority for Electricity and Water - PAEW	Oman	2019
North Site Utility Extension & Storm Water Drainage System – Construction of 950 m of utility tunnel and piping networks, including 1000 mm chilled water (supply and return), 250 mm fire water, 200 mm irrigation, and 150–200 mm potable water lines - Detailed Design and Engineering Services supported by full hydraulic, surge, and stress analysis, structural and civil design of thrust blocks, protection slabs, and chambers, and complete support, restraint, and SCADA-integrated monitoring systems for utility services	White Young (Qatar Foundation)	Qatar	2018
Pockets in Seeb Wilayat in Muscat Governorate – Construction of 170km of HDPE DN63 to DN280 distribution network - Preliminary Design, Final Design, Tender Documents preparation & Supervision services	Public Authority for Electricity and Water - PAEW	Oman	2018
Construction of Distribution Network (16 km) in Samail Town - Consultancy Services for Preliminary Design and Supervision services	Public Authority for Electricity and Water - PAEW	Oman	2018
Water Transmission System for Central Desalination Plant at SUR and Water Supply schemes to Al Sharqiya Region – Construction of transmission lines CS DN650 to DN900 length up to 120km, DI DN150 to DN600 length up to 190km, 13 reservoirs from 1.000m <sup>3</sup> to 5.000m <sup>3</sup> , 12 pump stations - Preliminary Design, Final Design and Tender Documents preparation, Construction supervision	Public Authority for Electricity and Water - PAEW	Oman	2018
RAF-A3 Associated Transmission Pipelines at Ras Abu Fontas Area – Construction of 900/1200/1400 mm diameter distillate pipelines totalling 7.58 km -Hydraulic and surge analysis, and design review	HBK (KAHRAMAA)	Qatar	2017



The field of water generation and distribution has been mastered during more than 30 years of successful business operations in the Middle East.



In the prestigious and highly demanding Middle East market, Energoprojekt ENTEL has demonstrated and repeatedly confirmed its technical and professional expertise, thereby building a well recognized brand.



Project Title	Client	Country	Year of Completion
Umm Al Houll IWPP – DI Piping Contract – Hydraulic and surge analysis, pipe stress assessment, and suction flow balancing for the design and commissioning of twin DN1600 ductile iron transmission pipelines and associated fittings to safely dispatch an additional 60 MIGD to Kahramaa’s network	HBK (Samsung/KAHRAMAA)	Qatar	2017
Remaining Works of Water Transmission Pipeline from Wadi Aday to Al Amerat in Muscat Governorate – Pump station 2x1.000m <sup>3</sup> /h, 11km of MS DN1400, SCADA system - Construction Supervision	Public Authority for Electricity and Water - PAEW	Oman	2017
Construction of Second Reverse Osmosis Plant (RO II) of 35 MLD Capacity - Process Water Planning Study, Environmental Permit and Environmental Impact Assessment (EIA), Bid Evaluation Report - Technical & Financial, Project Management Consultancy (PMC) Services, Conceptual Design, Tender Preparation and Supervision Services	MAJIS Industrial Services	Oman	2017
Extension of Water Supply Distribution Networks for Sunaynah, Wadi Al Jizi & Al Rawdah In Buraimi Governorate - Construction of HDPE DN110 to DN225, length up to 26km with 1.500m <sup>3</sup> reservoir - Construction Supervision	Public Authority for Electricity and Water - PAEW	Oman	2017
Construction of water distribution networks in Al Dakhliyah Governorate (Nizwa, Bakhla Wilayat, Al Massarat) - HDPE DN125 to DN315, length up to 390km and DI DN300 to DN600, length up to 30km, with three reservoirs of 7.000m <sup>3</sup> each – Construction supervision	Public Authority for Electricity and Water - PAEW	Oman	2016
Additional Capacity Implementation (ACI) Programme – Consultancy Services for defining short and medium term electricity and water generation development, including capacity extension and water production expansion of existing facilities and development of a greenfield IWPP, covering prequalification of IWPP developers, preparation of RFB documents, techno-commercial studies, bid evaluation support, assistance in preparation of Power and Water Purchase Agreements, and support through financial close, for the following projects: <ul style="list-style-type: none"> <li>- Umm Al Houll (Facility D) IWPP – 2,500 MW combined-cycle power plant with 136 MIGD MSF/RO desalination</li> <li>- Ras Abu Fontas A2 IWPP Expansion – 36 MIGD MSF desalination</li> <li>- Ras Laffan Industrial Desalinated Water Facility – 35 MIGD RO plant</li> </ul>	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2015
Construction of Seeb Pumping Station, Service Reservoir and Distribution Networks in Seeb Wilayat - New pump station (4x1,1m <sup>3</sup> /h), new 7.000m <sup>3</sup> reservoir and interconnection of existing network in total length of 15km DI DN100 to DN600 – Construction supervision	Public Authority for Electricity and Water - PAEW	Oman	2015
Modification, Improvement, and Automation of Tanker Filling Stations - Consultancy Services for the hydraulic upgrade and automation of nine potable water Tanker Filling Stations with a total capacity of 13,2 MIGD	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2015
Construction of Waste Water Treatment Plant Servicing TPP Pljevlja (210 MW) - Preliminary Design Preparation	Electric Power Industry of Montenegro - EPCG	Montenegro	2015

# INFORMATION & COMMUNICATION TECHNOLOGIES

Energoprojekt ENTEL provides Engineering Consultancy Services for Power Transmission Systems, PA/GA, CCTV, Field Telephones & MPLS Systems, Radio Relay Links, SDH Optical Equipment, PBX and other I&C solutions.

Project Title	Client	Country	Year of Completion
Engineering Consultancy Services for Qatar Power Transmission System Expansion - Bulk Customers and KAHRAMAA Network - Telecommunication part (30 new SS, 215km OPGW, 82km FO cables)	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing
Engineering Consultancy Services for Qatar Power Transmission System Expansion - Phase 13 - Telecommunication part (75 new SSs, 387 existing SSs, including upgrade of complete Telecom Network from SDH Technology to IP/MPLS technology, 236km OPGW, 160km FO cables)	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing
Engineering Consultancy Services for Qatar Power Transmission System Expansion - Phase 12 - Telecommunication part (30 new SSs, 70km OPGW, 118km FO cables)	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	Ongoing
EPIC of Analytic Devices (GC, TOC, LEL-H2, Dissolved O2, Residual Chlorine & NH3 Analyzers) for QAFCO 1 to 6 Plants – Detailed Design	Petrocon ECC (QAFCO)	Qatar	Ongoing
Upgrade of Crude Oil Measurement System and Implementation of PCRs, Mesaieed Operations – Detailed Design	IMCO (QatarEnergy)	Qatar	Ongoing
Upgrade of CEMS and Other Analyzers at NGL Plants, Mesaieed Operations – Detailed Design	Petrocon ECC (QatarEnergy)	Qatar	Ongoing
EPIC of CCTV & Access Control Systems for AKIS Buildings – Detailed Design	TRAGS (QatarEnergy)	Qatar	Ongoing



Project Title	Client	Country	Year of Completion
Setting-up of Kahramaa Meters (Electricity & Water) Testing Laboratory - Consultancy Services for design and supervision of a high-performance utility testing facility aligned with Qatar's Smart Grid and Advanced Metering Infrastructure (AMI) strategy, incorporating smart electricity and water meter test benches, ISO/IEC 17025	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2025
Engineering Consultancy Services for Qatar Power Transmission System Expansion - Phase 11 - Telecommunication part (50 new SSs, 309km FO cables)	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2024
Security Infrastructure Upgrades of the Ministry of Interior's (Mol) Small Arms Light Weapons (SALW) storage, location Duvanište, Smederevo - Detailed Design	United Nations Development Programme - UNDP	Serbia	2023
Study on Telecom Network Transport Technologies suitable for replacing existing SDH network (DWDM/OTN, MPLS TE, MPLS TP, Carrier Ethernet, SD-WAN)	Serbian Power Transmission and market Operator Elektromreža Srbije - EMS	Serbia	2022
FEED for Online Condition Monitoring System (OCMS) Upgrade in Dukhan	Qatar Petroleum	Qatar	2022
Updating Survey and GIS Database - Delivering high-precision geospatial data through advanced field surveys and GeoDatabase development covering 1,200 km of road networks, utilities, drainage systems, and associated civil infrastructure	Public Works Authority - Ashghal	Qatar	2022
EPIC for Upgrade of Port Control Tower and System at Ras Laffan - Detailed Design	Al Muftah (Qatar Petroleum)	Qatar	2021
Geographic Information System (GIS) update for QP Refinery, Mesaieed - Upgrade and expansion of QP Refinery GIS to reflect as-built status, incorporating additional utility and process systems through site verification, engineering data mining, and integration with engineering documentation; migration to latest ArcGIS platform for enhanced data access and operational visibility	Qatar Petroleum	Qatar	2021
Study on Possibility to Integrate Internet Access in EPS Telecom Network	Electric Power Industry of Serbia	Serbia	2020
Consultancy Services For Construction Of Sultan Qaboos Naval Base - Mirbat - Detailed Design of Extra Low Voltage Systems in Sultan Qaboos Naval Base	Artelia	Oman	2020
FTTH Network in the City of Belgrade - Design for Building Permit preparation	Huawei Technologies	Serbia	2019
System for Informing and Alarming Public and Other Parties involved in the protection and rescue strategy in the City of Belgrade (316 sirens) - Conceptual and Basic Design preparation	United Nations Development Programme - UNDP	Serbia	2019

Project Title	Client	Country	Year of Completion
EPIC for Emergency Alarm & Public Address System at Various Locations in Dukhan (EA/PA system for 4 degassing stations – alarm sirens, control centres, cable infrastructure and power supply) – Detailed Design	Bin Omran (Qatar Petroleum)	Qatar	2019
EPIC for Dukhan HV Substation SCADA System Upgrade – Design of centralized Power Management System control centre, SS Control System upgrades for unmanned 33kV SS, remote switching capabilities, and redundant fiber optic Ethernet ring for integrated SCADA operation	IMCO (Qatar Petroleum)	Qatar	2019
Installation of CCTV in Belgrade Transport Utility Company facilities (42 locations, 480 cameras) - Design for execution Preparation	Belgrade Transport Utility Company	Serbia	2018
Extension of CCTV and Intrusion detection system in TPP Nikola Tesla A, TPP Nikola Tesla B, TPP Morava and TPP Kolubara A	Electric Power Industry of Serbia	Serbia	2017
Design of Video Surveillance System for electrical systems of Water Supply and Management in the City of Niš ("NAISSUS NIS") - Preliminary Design preparation	City of Niš	Serbia	2017
Technical specification for security infrastructure upgrade of the Ministry of Interiors (MoI) evidence room at the Ćukarica Police Station in Belgrade	United Nations Development Programme - UNDP	Serbia	2017
Reconstruction of Remote Control System for railway coal transport in TPP Nikola Tesla - Detailed Design	TPP Nikola Tesla A	Serbia	2016
Video Monitoring System in the city of Subotica (107 locations) - Conceptual Design	Municipal Authority for Road Infrastructure, City Planning and Housing in the City of Subotica	Serbia	2016
Security Infrastructure Upgrades of the Ministry of Interior's (MoI) Small Arms Light Weapons (SALW) storage, location Platičevo - Detailed Design	United Nations Development Programme - UNDP	Serbia	2016
Engineering Consultancy Services for Qatar Power Transmission System Expansion - Phase IX - Telecommunication part (29 new SSs, 173km OPGW, 222km FO cables)	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2015
Implementation of Smart grid concept in the Electric Power Industry of Serbia - Strategy and development of remote monitoring and control system in the medium voltage distribution network	Electric Power Industry of Serbia - EPS	Serbia	2015
Detailed Design for installation of fibre optic cables for traffic lights control system	Belgrade City Administration - Secretariat for Transport	Serbia	2015

# OIL & GAS PROCESSING AND TRANSPORT

Oil & gas sector expertise has been carved and developed in the region of the Middle East, where Energoprojekt ENTEL has been successfully providing consulting services for several decades.

Project Title	Client	Country	Year of Completion
Wells Hook-Up (2022–2026) – Detailed Design and Engineering Services for the hook-up of 117 new and 205 workover oil, gas, and water injection wells across Dukhan Field, including: dedicated 6” carbon steel crude oil flowlines, 3” gaslift flowlines, HDPE-lined water injection lines, wellhead piping with safety shutdown valves, integration of SCADA systems and wellhead control panels and development of associated surface infrastructure	Galfar Al Misnad (QatarEnergy)	Qatar	Ongoing
Modification of Crude Oil Tanks’ Drain Piping System in Natural Gas Liquid (NGL) Tank Farm, Mesaieed – Detailed Design and Engineering Services for the replacement of corroded carbon steel drain piping on 15 crude oil storage tanks with a new Glass Reinforced Epoxy (GRE) drain header and GRE branch connections from tank nozzles and integration of sight glasses and isolation valves to enhance monitoring and operational maintainability	IMCO (QatarEnergy)	Qatar	Ongoing
Umbrella Consultancy Contract (UCC) for Engineering Consultancy Services (ECS / FEED) related to Oil & Gas Infrastructure & Civil Projects	QatarEnergy	Qatar	Ongoing
Extension of Nitrogen system in Ras Laffan Industrial City – Detailed Design and Engineering Services for 371m of 14” carbon steel underground pipeline, including hot tap connection to the existing Nitrogen backbone, pipeline stress analysis, specification of 3-layer PE external coating and full cathodic protection, design of redundant 24-core fibre optic communication system in dual conduits, and integration of metering skid, modin shelter and control cable routing across a micro-tunnel crossing of Ras Laffan Avenue	TRAGS (Gasal)	Qatar	Ongoing



Project Title	Client	Country	Year of Completion
Pipeline System Upgrades at Dukhan Fields – Detailed Design and Engineering Services for rerouting and internal lining of drain piping to prevent stagnation and corrosion, replacement of carbon steel pipelines with FBE-coated or corrosion-resistant alloy (CRA) pipe to mitigate sour service degradation and enhancement of the deluge water spray system through sectional isolation using corrosion-resistant valves, break flanges, and fusible loop modifications to ensure safe compressor maintenance without compromising system operability	IMCO (QatarEnergy)	Qatar	Ongoing
Rerouting Bitumen Piping System – Detailed Design and Engineering Services for a new Electrically Heat Traced 10” bitumen pipeline (~268m) and 3” compressed air pipeline (~250m) including integration with existing port and terminal facilities.	Petrocon ECC (Qatar Fuel - WOQOD)	Qatar	Ongoing
Shutdown-sensitive System Upgrades and Infrastructure Modifications across Dukhan Oil and Gas Facilities – Detailed Design and Engineering Services for compressor dry gas seal improvements, demolition of two obsolete instrument air compressors and associated control systems, flare reduction through reconfiguration of tank vent piping, tie-ins of seal vent lines to a closed drain system, installation of 250m of 1” methanol injection line routed across three processing trains, and replacement of 1km of 2” hot-dip galvanized carbon steel utility water headers	IMCO (QatarEnergy)	Qatar	Ongoing
Demineralized Water Injection Facilities in the Ammonia Product Lines – Detailed design and engineering services for fully automated injection systems across Ammonia Trains 1–6, featuring precision flow control and ratio regulation to maintain water content, including development of Piping and Instrumentation Diagrams (P&IDs), instrumentation integration, Distributed Control System (DCS) interface design, and comprehensive piping stress and tie-in analysis	IMCO (QAFCO)	Qatar	Ongoing
Upgrade of Field-mounted Continuous Emissions Monitoring Systems (CEMS) and Gas Chromatographs at NGL Plants – Detailed Design and Engineering Services for advanced analyzers with retractable probes measuring SO <sub>2</sub> , NO <sub>x</sub> , O <sub>2</sub> , H <sub>2</sub> S and full integration with ABB DCS, SCADA, and cybersecurity-compliant remote diagnostics	Petrocom ECC (QatarEnergy)	Qatar	Ongoing
Upgrade of the Crude Oil Measurement System at Mesaieed Operations – Detailed Design and Engineering Services for replacing legacy flow computers with S600+ models, upgrading SCADA and HMI systems, integrating new density analyzers and auto-sampler controllers, modifying prover logic, implementing pulse/frequency input signals, and achieving ±0.25% custody transfer uncertainty across 7 metering streams and a 30” bidirectional prover loop	IMCO (QatarEnergy)	Qatar	Ongoing
Upgrade of Fire Detection Systems at NFA & Al-Morjan offshore oil and gas production platforms – Detailed Design and Engineering Services for the replacement of obsolete Autronica BS100, HSSD, and HOW fire detection systems with new SIL3-rated, fully redundant and field-proven addressable panels integrated with DCS/FGS via Modbus TCP/IP including system configuration support	IMCO (QatarEnergy)	Qatar	Ongoing

Project Title	Client	Country	Year of Completion
Upgrade of UPS for NFA Offshore Gas Production Platform Main Power Generation System (MPG) and Halul New Power Generation Package (NPG) – Detailed Design and Engineering Services for the replacement of critical AC and DC UPS systems with redundant microprocessor-based units, including two 3kVA 110V UPS systems at NFA and one 30kVA 230V UPS at Halul, with battery banks providing 60 to 90 minutes autonomy, integration with turbine control panels, switchgear protection relays, fire and gas systems and full interface with the existing DCS architecture	IMCO (QatarEnergy)	Qatar	Ongoing
Instrumentation Upgrade for Analytic Devices (GC, TOC, LEL-H <sub>2</sub> , Dissolved O <sub>2</sub> , Residual Chlorine & NH <sub>3</sub> Analyzers) for QAFCO 1–6 Plants – Detailed Design and Engineering Services for the replacement of ten existing field-mounted analyser systems with new skid-mounted units including sample conditioning systems, sample take-off probes, HVAC-protected ATEX enclosures, automated calibration, electrical and civil foundations, and full integration with the Distributed Control System (DCS) for performance monitoring	Petrocon ECC (QAFCO)	Qatar	2025
Potable Water Network Upgrade from Jabel Tank Farm to FNDS at Dukhan – FEED preparation for 23 km of 12" carbon steel pipelines, a 200m <sup>3</sup> reinforced concrete storage tank, and a new demineralization facility for process water supply	QatarEnergy	Qatar	2025
Update of Engineering Information System for Dukhan OED-Technical Library – Consultancy Services for metadata extraction, equipment tag key list generation, document validation, linkage, and structured organization of over 160,000 technical documents from more than 800 oil, gas, and utilities projects, enabling tag-based search functionality and systematic preparation of project dossiers	QatarEnergy	Qatar	2025
Upgrade and Replacement of Obsolete Fire and Gas Systems at Mesaieed Operations – Detailed Design and Engineering Services for new addressable Building Fire Alarm Panels, F&G detectors, field devices, hydrogen and temperature sensors, and integration with HIMA Safety PLCs, Schneider SCADA, and cybersecurity-compliant signal interfaces, across Mesaieed Products Berth Terminal, Mesaieed Tank Farm, Natural Gas Liquids Plant No. 4 (NGL-4), and Gas Distribution Station A5 (GDS A5)	Integra Switchgear Projects Solutions (QatarEnergy)	Qatar	2024
Execution of Shutdown-sensitive Pipeline Modifications Across Multiple Degassing Stations in Dukhan Fields – Detailed Design and Engineering Services for rerouting 6" insulated stainless steel vent lines from TEG reboilers to respective Flare Knock-Out Drums at three major degassing stations, with continuous slope and tie-in connections, implementing structural and E&I upgrades to the crude oil sump pit system; and integrating gas isolation measures on the gas turbine unit to mitigate release risks during hot work activities	Petrocon ECC (QatarEnergy)	Qatar	2024
Hook-up of Well Flowlines in Dukhan Fields (2019–2022) – Detailed Design and Engineering Services for 83 new and 355 workover wells covering oil, gas lift, and powered water injection (PWI) spurlines including integration across the Dukhan oil field under Qatar Petroleum's EPIC program	Galfar Al Misnad (Qatar Petroleum)	Qatar	2023

Project Title	Client	Country	Year of Completion
Utilization of Produced Water from Storage Tanks at Degassing Stations for Produced Water Injection – Detailed Design and Engineering Services for the recovery and reuse of produced water from crude oil storage tanks at various degassing stations in Dukhan, incorporating Produced Water Collection Tanks, GRP and HDPE-lined pipelines, chemical dosing systems, inline filtration units, instrumentation and integration with the injection network to enable reuse and eliminate aquifer disposal	Al-Balagh (Qatar Petroleum)	Qatar	2023
Repair/Replace 96 Culverts in Dukhan Concession Area (DCA) – Site inspection, condition survey and structural assessment of culverts housing critical oil & gas and water pipelines, followed by engineering recommendations for repair or replacement to ensure structural integrity, hydrological performance and continued pipeline protection, with prioritization and detailed remedial scopes for each location	Qatar Petroleum	Qatar	2023
Replacement of Screw Compressor, Gear box and Associated Facilities at QP Refinery – Detailed Design and Engineering Services for the retrofit and integration of a new rotary screw compressor package rated at 538 kW, engineered for 4.1 bar differential pressure and 9,400 kg/h flow of corrosive hydrocarbon vapor (H <sub>2</sub> , HCl, H <sub>2</sub> O), into the existing skid and 375 kW motor configuration with full integration into existing DCS and ESD systems	Petrocon ECC (Qatar Petroleum)	Qatar	2022
MC70 Storage at Bitumen Plant in Mesaieed - Feasibility Study for a new 70 m <sup>3</sup> bitumen storage tank, associated piping modifications, hydraulic studies, process safety, vapor management, tie-in routing, HAZID/HAZOP, and preparation of FEED	Qatar Fuel - WOQOD	Qatar	2022



Project Title	Client	Country	Year of Completion
Online Condition Monitoring System (OCMS) upgrade in Dukhan – FEED for replacement of obsolete GE System 1 OCMS hardware/software, integration of BN3500 racks, OPC/DCS interfacing, remote access setup, cyber-secure network architecture, and tie-in with new OT telecom infrastructure across all major Dukhan oil and gas stations	Qatar Petroleum	Qatar	2022
Hook-up of 7 New Khuff Gas Wells & 10 Arab D Gas Cap Recycling Wells (8 injectors, 2 producers) to respective Production/Injection Facility at Dukhan – Detailed Design and Engineering Services including: route and topographical surveys, piping and tie-in design, corrosion inhibition, SCADA and ESD integration, and dismantling and removal of redundant flowlines to maintain reservoir pressure and enhance hydrocarbon recovery in line with the Dukhan Field Development Plan	Dopet (Qatar Petroleum)	Qatar	2022
Installation of a New Deaerator at NGL-3, Upgrade of the Propane Truck Loading System at NGL Plant Mesaieed and Implementation of V-8701 Flare KO Drum Drainage Facilities at NGL-4 – Detailed Design and Engineering Services including FEED review, site surveys, multidisciplinary engineering and development of tie-in solutions with existing process, electrical, instrumentation, and control systems in live plant conditions	Dopet (Qatar Petroleum)	Qatar	2022
NGL Facilities Modifications at Mesaieed Operations – Detailed Design and Engineering Services including HAZOP Study for the relocation and upgrade of the W2 Instrument Air Compressor, permanent isolation of the NGL-2 Flare Header, mitigation of pigging slug processing impacts in NGL-4, resolution of LP Acid Gas Flare inadequacy in NGL-3, and enhancement of the ventilation system for two gas turbines at NGL-1	Qatar Petroleum	Qatar	2022



Project Title	Client	Country	Year of Completion
Oil and Gas Lift Flowlines & PWI Spurlines in Dukhan Fields (2015-2019) – Detailed Design and Engineering Services for the routing, hook-up, and tie-in of 6" oil production -flowlines, 3" gas lift flowlines, and 4" powered water injection (PWI) spurlines, including integration with wellhead safety systems, provision for corrosion and scale monitoring (corrosion/scale coupons), SCADA interfacing with DCS/RTU/PLC systems, instrumentation for real-time pressure, flow, and temperature monitoring, compliance with ASME and implementation of fire and gas detection, cathodic protection, and solar-powered control panels	Galfar Al Misnad (Qatar Petroleum)	Qatar	2022
Mothballing and Decommissioning of NGL-2 Plant – Detailed Design and Engineering Services for slug handling upgrades via off-spec vessels, diversion of Offshore Rich Associated Gas (OFFRAG) through a new 24" Class 300# pipeline to QAPCO, integration of 8" and 4" slug transfer lines to NGL-4, a 4" lean gas supply line, flare system isolation, and associated process modifications in NGL-2 and NGL-4 to support the phased decommissioning strategy	Galfar Al Misnad (Qatar Petroleum)	Qatar	2021
Geographic Information System (GIS) update for QP Refinery, Mesaieed - Upgrade and expansion of QP Refinery GIS to reflect as-built status, incorporating additional utility and process systems through site verification, engineering data mining and integration with engineering documentation, migration to the new ArcGIS platform for enhanced data access and operational visibility	Qatar Petroleum	Qatar	2021
Modification of Various Pipeline Systems in Dukhan – FEED for RAG line isolation enhancements involving multiple gas pipelines ranging from 14" to 24" in diameter, hook-up of new 1.7 km, 6" pipelines to two existing Powered Water Injection (PWI) wells including: feasibility studies, Conceptual Design, HAZID, HAZOP, SIL, QRA, cost estimation, and preparation of the EPIC tender package	Qatar Petroleum	Qatar	2020
Relocation of LPG Leak Detection System (LDS) at QP Refinery, Mesaieed – FEED preparation for upgrading and shifting the existing LDS to the Central Control Building, integrating with existing control systems (DCS and RTU-PLCs) and coordinating with OEMs (Honeywell, Allen Bradley, Emerson) to ensure reliable monitoring and operational continuity	Qatar Petroleum	Qatar	2020
Improvement of Plant Reliability and Safety Enhancement at Various Stations in Dukhan Fields – FEED for Replacement and Upgrade of Critical Electrical and Safety Systems, including the replacement of 10 Electrical Overhead Traveling (EOT) cranes, installation of new evacuation sirens, replacement of 178 obsolete protection relays and aged 110VAC UPS units, upgrade of electrical facilities at gas gathering substations, and demolition of fire water well pumps, diesel generators, and associated electrical infrastructure	Qatar Petroleum	Qatar	2020
Extension of NGL-3/4 Central Control Rooms for monitoring and controlling the Natural Gas Liquids (NGL) processing trains 3 and 4 at Mesaieed – Detailed Design and Tender Documentation preparation for office and permit-to-work areas, airlocks, instrument and safety rooms, engineering, mechanical, conference and control rooms, including associated utilities, fire and gas systems and cybersecurity-compliant design	Qatar Petroleum	Qatar	2019

Project Title	Client	Country	Year of Completion
Structural Integrity of Various Foundations at Oil and Gas Production Plants within Dukhan Fields – Comprehensive structural integrity study of equipment, elevated pipe rack, and street/compound lighting foundations across multiple degassing, pumping, gas lift and injection stations, including: site surveys, non-destructive testing and concrete coring, structural assessments and refurbishment recommendations	Qatar Petroleum	Qatar	2019
Extension of Manifolds at Oil and Gas Degassing Stations in Dukhan Fields – Detailed Design and Engineering Services for 32 additional 6" flowline manifold slots and approximately 21 km of new piping, including tie-ins to existing production and test headers, integration of vent and drain systems, construction of new underground headers and foundations, upgrades to electrical, instrumentation and fire and gas detection systems integrated with existing oil separation and export facilities	Galfar Al Misnad (Qatar Petroleum)	Qatar	2019
Update of Dukhan Master Drawings - – Site surveys, data retrieval and electronic revision of as-built station survey, hazardous area classification, P&ID, and SLD drawings across Dukhan production facilities, ensuring alignment with current plant configurations and QP standards	Qatar Petroleum	Qatar	2019
Implementation of Critical Mechanical Modifications across Dukhan Oil & Gas Plants — Detailed Design and Engineering Services for replacement of valves, pumps and heat exchangers, rerouting of carbon steel and stainless steel piping (up to 24"), structural modifications to pipe racks and supports, and tie-ins to live systems across multiple Dukhan oil and gas production stations, supported by 3D modelling, stress analysis and integration of updated Material Take-Offs (MTOs) and as-built documentation	Galfar Al Misnad (Qatar Petroleum)	Qatar	2017
Decommissioning and Removal of 12" MPPL and of 30" Gas Pipelines –Detailed Design and Engineering Services for safe dismantling of 42.7 km of 12" multi-product pipeline from QP Refinery to Doha Depot (design pressure: 49 bar) and 13 km of 30" gas pipeline from strategic fuel intake Station S to distribution point W2 (48.5 bar), including pig traps, LBV-6, F&G and telecom systems, cathodic protection, nitrogen purging, E&I removal, and civil reinstatement in hazardous areas	Galfar Al Misnad (Qatar Petroleum)	Qatar	2017
Replacement of North Field Surplus Natural Gas Injection Compressor Station (NFIS) Instrument Air Package at Dukhan – Detailed Design and Engineering Services for a new oil-free screw-type compressor and heatless desiccant dryer system delivering 264 SCFM of dry air at -40°C dew point, comprising dual trains with common wet and dry air receivers, integrated with existing utilities, 415V MCC and PLC controls, including all associated piping, civil, structural, electrical, and instrumentation works	ROOTS (Qatar Petroleum)	Qatar	2017
Conversion of the Existing Substation at Halul Island's Offshore Accommodation Complex – Detailed Design and Engineering Services for upgrading the 11 kV SS to 33/11 kV with two 15/18.75 MVA transformers, 33 kV GIS integration with the 132/33 kV grid, XLPE and fiber optic cabling, PMS and DCS/ Fire Alarm interface, protection coordination studies and full civil, instrumentation, telecom and earthing works to enable strategic load expansion and future development support	Galfar Al Misnad (Qatar Petroleum)	Qatar	2017

Project Title	Client	Country	Year of Completion
New Crude Oil Storage Tanks at Khatiyah Main and Jaleha Degassing Stations in Dukhan – FEED preparation for two new aboveground 500,000-barrel crude oil dewatering tanks and associated facilities, including decommissioning and removal of existing storage tanks and associated piping/instruments, integration with existing crude oil storage and pumping systems, and provision of instrumentation, control, safeguarding, cathodic protection, fire and gas detection and protection systems	Qatar Petroleum	Qatar	2017
Upgrade of the Propane Truck Loading System – FEED preparation for replacement of the obsolete weighbridge system, modernization of the loading bays with certified custody transfer metering, enhanced emergency shutdown and safety instrumentation, installation of a blast-resistant air-conditioned operator shelter, and provision of a temporary loading facility to maintain uninterrupted truck loading operations	Qatar Petroleum	Qatar	2017
Replacement of Air Compressors at QP Refinery, Mesaieed – Detailed Design and Engineering Services for dismantling and replacement of four existing reciprocating compressors (1200 Nm <sup>3</sup> /h @ 8 bar each) with three (3) new centrifugal air compressor packages (2500 Nm <sup>3</sup> /h @ 8.5 bar each), two new heatless pressure swing dryers (2500 Nm <sup>3</sup> /h each), 91.5 m <sup>3</sup> air receivers, and complete electrical, instrumentation, and civil works	"Al-Balagh (Qatar Petroleum)"	Qatar	2017
Upgrade of Potable Water, Firewater and Irrigation Water for Dukhan Township – FEED preparation for rehabilitation and expansion of utility networks supporting Qatar Petroleum's onshore operations, approximately 14 km of pipelines (100–500 mm dia), installation of 1,578 smart meters, establishment of 6 District Metering Areas (DMAs), and integration of leak detection and pressure monitoring with the existing SCADA system to ensure system reliability, fire readiness, and future capacity	Qatar Petroleum	Qatar	2017
Provision of Automated Choke Valves at Recycle Gas (RG) Production Plant at Dukhan Fields – FEED preparation for the replacement of 6" manual choke valves with automated, Foundation Fieldbus-based control units at six remote production wellheads, including integration with Honeywell Experion DCS	Qatar Petroleum	Qatar	2015
Replacement of Halon System at QP Refinery in Mesaieed – Detailed Design and Engineering Services for replacement of existing Halon systems at QP Refinery with Halon-free systems including High Sensitivity Smoke Detection (HSSD), carbon dioxide, foam rim seal, and fire water deluge systems, fully integrated with existing Fire and Gas, Emergency Shutdown (EDS) and Distributed Control Systems (DCS)	Galfar (Qatar Petroleum)	Qatar	2016
Extension of Manifolds at Oil and Gas Degassing Stations in Dukhan Fields – FEED preparation for the extension of test and production manifolds, including the design of four new modular skid-mounted manifolds (each with 8 well slots), process simulation, pipeline design rated up to 110.3 bar, civil and structural works and interface design for tie-ins to existing systems	Qatar Petroleum	Qatar	2016

Project Title	Client	Country	Year of Completion
Replacement of Crude Transfer Lines at Dukhan – FEED preparation for 25.5 km of new 10” and 12” aboveground crude oil transfer pipelines replacing aged main oil lines (MOLs), including route survey, hydraulic and surge analysis, pipeline material and wall thickness selection, design of scraper traps, cathodic protection system upgrade, integration with SCADA/DCS, leak detection system and tie-in and shutdown strategies for live facilities	Qatar Petroleum	Qatar	2016
Replacement of Diesel Engine Driven IAC Package and New IA Piping Network at Natural Gas Liquids (NGL) processing plants (NGL-1/2/3/4), Mesaieed – FEED for a new 1230 Sm <sup>3</sup> /h capacity, oil-free dry screw Instrument Air Compressor skid with heatless desiccant dryers, PLC-based local control panel and diesel-engine-driven fin-fan aftercoolers, along with a new 4” carbon steel Instrument Air pipeline between plants, including: detailed hydraulic surge analysis, dynamic foundation design, and full instrumentation integration with existing DCS, ESD, and F&G systems	Qatar Petroleum	Qatar	2016
Structural Integrity of Main Pipe Rack in Bab Central Degassing Station (BCDS) – Detailed Engineering Studies for the assessment and verification of structural strength and stability of pipe rack modules and foundations across all Central Degassing Station (CDS) process streams, incorporating site investigations, 3D modelling, stress analysis and upgrade recommendations to ensure safe long-term operation	ADCO	UAE / Abu Dhabi	2016
Extension of Dukhan Support Services Area (DSSA) – Civil Infrastructure Design for a 500,000 m <sup>2</sup> secured logistics and accommodation zone serving QP’s contractors, including the full design of roads, grading, potable and fire water networks, sewage system with new pumping station, stormwater drainage, TSE irrigation, 11 kV power distribution, telecom duct banks, SCADA integration, and tie-ins to existing infrastructure for 3,000 occupants and a catchment population of 12,500	Qatar Petroleum	Qatar	2016
New Master Drawings for Underground Services within Dukhan Production Stations - Comprehensive as-built mapping of underground utilities across 40+ Dukhan production facilities, including GPS/Total Station surveys, trial pit excavation, service detection, and CAD deliverables – Survey and As-Built drawings preparation	Qatar Petroleum	Qatar	2015
Relocation of SCADA Main Operation Centre from Well Head Treatment Plants (WHTPs) B & D to WHTPs E/G & H/L Control Rooms – FEED preparation for the relocation and upgrade of SCADA, Pipeline Management System (PMS), Leak Detection System (LDS), Multi System Integration (MSI), and Dukhan Information Centre (DIC) systems, including redesign of control architecture, integration with DIC through OPC, adaptation of telecommunication and electrical infrastructure, and control room layout optimization to enable secure 24/7 supervision of the Dukhan gas distribution network	Qatar Petroleum	Qatar	2015

# ENVIRONMENTAL PROTECTION

Services provided by Energoprojekt ENTEL rely on utilization of environmentally friendly technologies and implementation of pollution prevention and reduction solutions.

Project Title	Client	Country	Year of Completion
400 kV Interconnection OHL Brezna – Crkvičko Polje - Sarajevo - Feasibility Study, ESIA Scoping Report (WB29-MNE-ENE-02)	European Bank for Reconstruction and Development - EBRD	Montenegro	Ongoing
Consultancy Services for Provision of IPPC Permit for the New Coal Fired 350 MW unit B3 at TPP KOSTOLAC B	Electric Power Industry of Serbia - EPS	Serbia	Ongoing
Consultancy Services for Construction of the New Unit B3 at Coal Fired Thermal Power Plant Kostolac B, 350 MW - FIDIC Engineer (Environmental protection)	Electric Power Industry of Serbia - EPS	Serbia	Ongoing
Energy-from-Waste CHP Plant VINČA (340.000 t/h of waste, 30 MWe & 56,5 MWth) - Environmental Consultancy Services for provision of Waste Management Permit and IPPC Permit	Beo Čista Energija	Serbia	2025
Potable Water Network Upgrade from Jabel Tank Farm to FNDS at Dukhan – 23 km of 12" carbon steel pipelines, a 200m <sup>3</sup> reinforced concrete storage tank, and a new demineralization facility for process water supply - FEED preparation including Report on Waste Management, Environmental Risk Register (ERR) and ENVID Workshop	QatarEnergy	Qatar	2025
New Production Facility E (Greenfield IWPP, 2400 MW and 100 MIGD) – Environmental Consultancy Services including review of 500,000 m <sup>3</sup> /day seawater intake and outfall, brine discharge >65,000 ppm, thermal plume impact up to 42°C, compliance with zero-discharge rules, marine and chemical waste assessment, and evaluation of environmental requirements in bidder submissions and project agreements from RFB to Financial Close.	Qatar General Electricity & Water Corporation – KAHRAMAA	Qatar	2025
Environmental Impact Assessment Study of the current status on the environment for Thermal Power Plants TPP Nikola Tesla A - 1650 MW, TPP Nikola Tesla B – 1240 MW, TPP Kostolac A - 271 MW and Heating Plant VREOCI – 120 MWth	Electric Power Industry of Serbia - EPS	Serbia	2023



Project Title	Client	Country	Year of Completion
European Union's Horizon 2020 research and innovation programme - Smart Strategies for the transition in Coal Intensive Regions	European Commission	Serbia	2023
Consultancy Services for Development of the Project of Implementation of GTCC Plants in Serbia – Site Selection, Concept design and Preliminary Environmental Impact Assessment	Electric Power Industry of Serbia - EPS	Serbia	2023
Repair/Replacement of Culverts in Dukhan Concession Area (DCA) - Assessment Study for the repair and replacement of 83 reinforced concrete culverts across DCA, including Environmental Risk Register (ERR), ENVID, evaluation of environmental impacts from construction and demolition activities, waste classification and disposal strategy, and full integration of environmental and HSE safeguards into the structural assessment, field testing, and techno-economic evaluation of culvert rehabilitation solutions	Qatar Petroleum	Qatar	2023
Plant Change Request and Management of Changes in NGL Plants, Mesaieed Operations – HAZOP study and detailed design services for the upgrade of the W2 instrument air compressor at the Gas Distribution Station, permanent isolation of NGL-2 flare headers, mitigation of slug handling impacts in NGL-4, correction of low-pressure acid gas flare disposal at NGL-3 Gas Sweetening Facilities, and ventilation enhancement for turbine enclosures in NGL-1, including environmental impact mitigation for flare header isolation, acid gas dispersion control, vapor recovery, and slug processing, supported by ENVID, process simulation, stress analysis, hazardous area classification, ventilation system redesign, and full integration of HSE and environmental compliance into multidisciplinary engineering deliverables	Qatar Petroleum	Qatar	2022
Western Serbia – 400 kV Transmission System Upgrade, TA-SER-26: Environmental Impact Assessment Study for the Construction of 2 X 400 kV Transmission Line SS Bajina Bašta - SS Obrenovac (Europe Aid/124605/C/SERMULTI)	Transmission System Operator of Serbia - EMS	Serbia	2021
Western Serbia – 400 kV Transmission System Upgrade, TA-SER-26: Environmental Impact Assessment Study for Reconstruction and Extension of 220/35 kV SS Bajina Bašta to 400/220/35 kV (Europe Aid/124605/C/SERMULTI)	Transmission System Operator of Serbia - EMS	Serbia	2021
Environmental Impact Assessment Study for the Construction of new coal fired power plant Kolubara B, 350 MW	Electric Power Industry of Serbia - EPS	Serbia	2021
Update of Environmental Impact Assessment Study (EIA) for the Construction of Flue Gas Desulphurisation (FGD) Plant for Units B1 & B2 at TPP Kostolac B	Electric Power Industry of Serbia - EPS	Serbia	2020
Environmental Impact Assessment (EIA) Study for the Power Upgrade and Lifetime Extension of Units 1 and 2 in TPP Nikola Tesla A (2x210 MW)	Electric Power Industry of Serbia - EPS	Serbia	2019
Environmental Impact Assessment (EIA) Study for the Power Upgrade and Lifetime Extension of Units 1 and 2 in TPP Kostolac A (100 MW + 210 MW)	Electric Power Industry of Serbia - EPS	Serbia	2019
Environmental Impact Assessment (EIA) Study for the Construction of Flue Gas Desulphurization Plant in TPP Nikola Tesla A (Units A3-A6)	Electric Power Industry of Serbia - EPS	Serbia	2019

Project Title	Client	Country	Year of Completion
RAF-A3 SWRO Desalination Water Project (36 MIGD dual-pass RO facility) – Environmental Services encompass comprehensive oversight of environmental impacts, including marine intake and discharge, DAF-based pre-treatment, chemical dosing (coagulants, antiscalants, NaOH, ClO <sub>2</sub> ), CO <sub>2</sub> -based remineralization, and integration with Qatar’s SCADA-controlled network, ensuring regulatory compliance and environmentally sustainable operation	Qatar General Electricity & Water Corporation – KAHRAMAA	Qatar	2019
Environmental Monitoring Plans for Belgrade Heating Plants with rated output of more than 10 MWth	District Heating Plants of Belgrade	Serbia	2018
Environmental Impact Assessment (EIA) Study for Construction of New Unit B3 at TPP Kostolac B, 350 MW	Electric Power Industry of Serbia - EPS	Serbia	2017
Consultancy Services for Provision of IPPC Permit - Energy Efficiency Reports for ten (10) Belgrade district heating plants (total installed capacity of 1660 MWth)	District Heating Plants of Belgrade	Serbia	2017
Consultancy Services for the Provision of IPPC permit - Environmental Protection Plans for Plant Shut Down and Decommissioning for ten (10) Belgrade district heating plants (total installed capacity of 1660 MWth)	District Heating Plants of Belgrade	Serbia	2017
Consultancy Services for Provision of IPPC Permit - Implementation of Best Available Techniques (BAT) for ten (10) Belgrade district heating plants (total installed capacity of 1660 MWth)	District Heating Plants of Belgrade	Serbia	2017
Environmental Impact Assessment (EIA) Study for Construction of Flue Gas Desulphurization Plant at TPP Kostolac B (2x348,5 MW)	Electric Power Industry of Serbia - EPS	Serbia	2017





Project Title	Client	Country	Year of Completion
Consultancy Services for RO Pilot Plant (45 MIGD) & Facility D Power and Water Plant Project development (2520 MW and 135 MIGD) - Facility D and RO Pilot Plant Site selection study - Preliminary Concept Design – Environmental considerations	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2016
Extension of DSSA (Dukhan Support Services Area) and Provision of Infrastructure and Utilities - Civil Infrastructure Design (CID) for a 500,000 m <sup>2</sup> DSSA expansion, including environmental risk register, ENVID, EIA coordination, waste and stormwater management planning, and integration of HSE safeguards into utility corridors, road networks, sewage systems, and electrical infrastructure, ensuring compliance with local regulations and international environmental standards for a future population of 3,000+ residents and 12,500 catchment	Qatar Petroleum	Qatar	2016
New Crude Oil Storage Tanks at Khatiyah Main and Jaleha in Dukhan – FEED preparation for two new 500,000-barrel crude oil storage tanks, including Environmental Impact Assessment (EIA), VOC (Volatile Organic Compounds) and air emissions modeling, tank blanketing and vent control systems, comprehensive waste management planning for demolition, sludge, and operational waste, HDPE-lined secondary containment and bund design, ENVID, consequence and dispersion analysis, environmental and HSE risk register updates, and full integration of environmental protection, spill prevention, and corrosion mitigation into the multidisciplinary engineering and design scope	Qatar Petroleum	Qatar	2015
Qatar Integrated Railways Project – Project Management Services for Environmental Impact Assessment (EIA) for the Qatar Integrated Railways Project (QIRP), a national-scale multimodal transport network comprising four metro lines, long-distance passenger and freight corridors, and over 350 km of planned rail infrastructure across urban, industrial, and ecologically sensitive areas	Qatar Railways Company	Qatar	2015
Extension of Manifolds at Jaleha, Fahahil South & Khatyah Main Degassing Stations – FEED for the extension of test and production manifolds, including: Environmental Impact Assessment (EIA), ENVID, environmental and HSE risk registers, waste management planning for demolition and hydrocarbon residues, and integration of flare, closed drain, firewater, toxic gas detection, and heat shielding systems to ensure environmental compliance and safe operability	Qatar Petroleum	Qatar	2015
Upgrading Existing Potable & Fire Water Network in Dukhan Township and Vicinity - FEED preparation for the rehabilitation and expansion of the integrated potable, fire, and irrigation water network in Dukhan Township, including: Environmental Risk Register, waste generation and disposal plan for demolition and pipeline replacement works, assessment of unaccounted-for water (UFW), integration of leak detection and smart metering systems, stormwater drainage optimization, and full compliance with local regulations and international environmental standards	Qatar Petroleum	Qatar	2015

# POWER CONTROL CENTERS AND SCADA SYSTEMS

Energoprojekt ENTEL was the concept maker for the Power Control Centers in former Yugoslavia and is presently providing complex technical solutions in Qatar and Oman.

Project Title	Client	Country	Year of Completion
Reconstruction of New Salwa and Airport Reservoirs and Pumping Stations (RPSs) – Consultancy Services for the reconstruction of potable water infrastructure including Instrumentation, Control and SCADA systems - pre-design study, preliminary design, tendering, evaluation and award, design review, site supervision and claim/warranty support	Qatar General Electricity and Water Corporation - KAHRAMAA	Qatar	Ongoing
Major Refurbishment, Replacement and Upgrading at Various Water Stations – Consultancy Services for refurbishment and upgrading of major water infrastructure including Instrumentation, Control and SCADA systems - site supervision and technical support	Qatar General Electricity and Water Corporation - KAHRAMAA	Qatar	Ongoing
Construction of New Power Generation Unit at TPP Kostolac B, 350 MW - FIDIC Engineer, Construction Supervision of the control system	Electric Power Industry of Serbia – EPS	Serbia	2025
Construction of Energy-from-Waste Plant (EfW) in Vinča, near Belgrade, with capacity of 340,000 t/year (30 MWel + 56,5 MWth) – Control System Design and Implementation Supervision	Beo Čista Energija	Serbia	2024
Consultancy Services for Aquifer Storage Recovery (ASR) - Design and Tender Document Preparation for integration of the ASR network into the existing SCADA network	Qatar General Electricity and Water Corporation - KAHRAMAA	Qatar	2024
EPIC of SCADA Network Infrastructure Upgrade and Instrument Fiber Optic System in Dukhan Fields – Detailed Design	Voltage (Qatar Petroleum)	Qatar	2022
EPIC for Automation Upgrade at LBV Stations in Dukhan Fields – Detailed Design	Petroserv (Qatar Petroleum)	Qatar	2022

Project Title	Client	Country	Year of Completion
EPIC for Upgrade of Port Control Tower and System at Ras Laffan – Detailed Design and Engineering Services for retrofitting of 35-meter tower and integrating a new Vessel Traffic Service (VTS) with dual 21-foot long-range radars (15+ NM coverage, real-time tracking), Very High Frequency (VHF) and Automatic Identification System (AIS) base stations (redundant, GPS-linked), Voice Communication Control System (VCCS) with hotlines and emergency links, and ISO/IEC-compliant telecom, HVAC, power and fire systems, including a fully operational 24/7 Temporary Operation Room	Al Muftah (Qatar Petroleum)	Qatar	2021
EPIC for Dukhan HV SS SCADA System Upgrade – Detailed Design of centralized Power Management System control centre, SS Control System upgrades for unmanned 33kV SS, remote switching capabilities, and redundant fiber optic Ethernet ring for integrated SCADA operation	IMCO (Qatar PETROLEUM)	Qatar	2019
Design Consultancy Services for MEDC Distribution Control Centre	Muscat Electricity Distribution Company	OMAN	2019
EPIC for shifting of Dukhan Water Network SCADA System to new DWCC building - Detailed Design	AYTB (Qatar Petroleum)	Qatar	2017
Consultancy Services for Preparation of Scope Services, Tender Documents and Supervision Services of a SCADA based Central Control Station for Majis Industrial Services various Water Utility Services at Sohar Industrial Port Area	Majis Industrial Services - SAOC	Oman	2017
Remote SCADA Control System Installation and refurbishment of existing control system equipment in Gruža Dam – Detailed Design	Public Water Management Company - Srbijavode	Serbia	2016
Basic and Detailed Design of Integrated Telecommunication Systems for Railway Transport of TPP Nikola Tesla	Electric Power Industry of Serbia - EPS	Serbia	2015
System for Continuous Monitoring of Coal Quality at TPP Kostolac coal transport line	Electric Power Industry of Serbia - EPS	Serbia	2015
FEED for Relocation of SCADA Main Operation Centres from WellHead Treatment Plants (WHTPs) B & D to WHTPs E/G & H/L Control Rooms	Qatar Petroleum	Qatar	2015
Consultancy Supervision Services for MJEC SCADA System - Phase III Construction: Master System H/W and SCADA /HIS S/W Expansion for MJEC DCC, Transmission Communications (FO MUX) upgrade, Distribution Communications (FO, ADSL, UHF, GPRS), Towers and Masts construction for UHF Radio Communications, RTU, Plant Interface, and 48V DC PSSs, for 5 MJEC SSs, and 20 Primary SSs	Majis Industrial Services - SAOC	Oman	2015

# POWER SYSTEM AND OTHER STUDIES

Energoprojekt ENTEL has carried numerous power system analysis and studies and is equipped with appropriate software tools necessary to perform testing and investigation of power system components.

Project Title	Client	Country	Year of Completion
400 kV Interconnection OHL Brezna – Crkvičko Polje (Montenegro) – Sarajevo (Bosnia and Herzegovina – Preparation of Feasibility Study, Conceptual Desing and ESIA scoping. Project is being financed by Western Balkan Investment Framework (WBIF), Infrastructure Project Facility Technical Assistance 12 (IPF12)	EIB (Montegrin Electrical Transmission System – CGES)	Monte- negro	Ongoing
Establishment of New Sitra 400 kV Grid SS and Subsystem – Comprehensive Engineering Consultancy Services including power system studies covering: steady-state analysis (load flow, short circuit, and contingency analysis), reactive power compensation study, and electromagnetic transient (EMT) studies comprising insulation coordination, transformer energization, and switching studies for a new 400/220/21kV grid SS and associated transmission system including 7.2km of 400kV, 4.5km of 220kV, and 4km of 66kV cable lines	Electricity & Water Authority - EWA	Bahrain	Ongoing
Power Connection to 400kV TRANSCO Network of New Shuweihat S4 IWP – RO Desalination Plant (providing 70 MIGD of potable water) - Electrical Studies: load flow, short circuit, motor starting, voltage recovery, electromagnetic transient, power quality and relay settings	GS Inima	UAE / Abu Dhabi	Ongoing
Owner`s Engineer Services for Čibuk 2 Wind Project (154 MW) - Expert review of electrical and grid compliance studies related documentation	Čibuk 2 Wind Energy d.o.o Beograd (Masdar Taaleri)	Serbia	Ongoing
HABSHAN 5 CO2 Recovery and Injection Project - Power System Studies: load flow study, short circuit study, motor starting study, transient stability study, harmonic study, arc flash study, relay coordination study and protection settings	Petrofac Emirates LLC (ADNOC onshore)	UAE / Abu Dhabi	Ongoing



Project Title	Client	Country	Year of Completion
EPIC for Rectification of 33kV Overhead Lines in DCA (Dukhan Concession Area) - Detailed Design and Engineering Services for the replacement and rerouting of 21 existing 33 kV OH lines (~105km) with 13 new OH lines and 8 new underground cable lines - including model update, load flow, short circuit, switching transient, and motor starting stability studies, with optional protection coordination and induced voltage interference analysis	Voltage (QatarEnergy)	Qatar	Ongoing
New Power Connection for QAFCO Expansion – Concept Study to secure 200MW from KAHRAMAA via 220kV infrastructure, including: identification of a suitable tie-in substation, interface coordination with QatarEnergy’s Mesaieed Industrial City (MIC) for corridor allocation, conceptual routing of 220 kV underground cables, substation modification analysis, and EPC cost estimation	Black Cat (QAFCO)	Qatar	Ongoing
2GW Solar PV Plant in Dukhan – Pre-feasibility Grid Studies for Preliminary Design variant with 500 MVA TR × 4 set, including: ETAP-based Load Flow, Short Circuit, Reactive Power Capability, and Harmonic Studies, development of protection and metering diagrams from 33 kV pooling to KAHRAMAA substation, SUT sizing verification, review of 400 kV OHL and cable specifications and ratings and compliance with KAHRAMAA Grid Code	Samsung C&T (QatarEnergy)	Qatar	Ongoing
Ras Abu Fontas 500MW Open Cycle Gas Turbine Peaking Plant – Review of Power System Grid Compliance Studies, including: short circuit, load flow, power quality, system stability, transient stability, dynamic stability and insulation coordination study	Sinohydro/Power China (QEWC)	Qatar	Ongoing
<b>QatarEnergy Industrial Cities Solar Power Projects (875,5 MW) - Preliminary and detailed Power system studies (Load flow, Short Circuit and Reactive Power Capability) for two new Solar Plants (RAS LAFFAN and MESAIEED), 2x400 MW within Grid integration study into the KAHRAMAA Transmission system</b>	Samsung (QatarEnergy)	Qatar	2025
RLC Power Systems – Comprehensive Consultancy for expansion, upgrades, and optimization of the 400kV, 220kV, 132kV, and 33kV network in Ras Laffan, including: load flow, short circuit, and transient stability studies across 30+ SSs (KAHRAMAA, QatarEnergy, End Users), identification of capacity bottlenecks, configuration upgrades, and preparation of FEED packages for future tie-ins and new SSs	QatarEnergy	Qatar	2025
Construction of Backup Power Plants at Dukhan Air Base & North Camp Al Shamal – Engineering studies and Detailed Design for two simple-cycle gas turbine power plants operating in island mode: Dukhan Air Base (49.5 MW + 16.5 MW standby) and Al Shamal (66 MW + 16.5 MW standby), including: load flow, short circuit, protection coordination, dynamic simulation, and interconnection analysis for future 11 kV grid integration with KAHRAMAA	BHDR (QAF)	Qatar	2025

Project Title	Client	Country	Year of Completion
Rearrangement/Alternative Arrangement for Overhead High Voltage Transmission Lines of Dhaka City and Adjacent Areas - Comprehensive Feasibility Study and power system analysis for the rearrangement and undergrounding of 400 kV, 230 kV, and 132 kV transmission lines across Dhaka and surrounding urban corridors, including load flow simulations using PSS/E, fault vulnerability assessment, electromagnetic impact, right-of-way optimization, and design of rerouting, multi-circuit tower configurations, and cost estimation integrated with GIS and PLS-CADD modelling	Power Grid Company of Bangladesh - PGCB	Bangladesh	2024
Optimal Engagement of the Production Capacities Within EPS in order to balance the power system in terms of integration of renewable energy sources with reference to the requirements and possibilities for improvement of the existing regulatory framework	Electric Power Industry of Serbia - EPS	Serbia	2023
FEED and EPCM for TA'ZIZ Industrial Park - Power System Studies including development of a detailed model of Feedstock, utilities and interconnecting pipelines for TA'ZIZ Industrial Park and DIAMOND SS and performing the following studies: load flow, short circuit, arc flash, protection selection and relay coordination.	KENT (ADNOC Onshore)	UAE	2023
FEED & EPCM BAB FAR NORTH Full Field Development Project (BFN) – Preparation of detailed power system studies: load flow, power factor correction, short circuit and motor starting study	KENT (ADNOC Onshore)	UAE	2023
Neom Green Hydrogen Project - Power system review and validation studies for the 380/132 kV transmission corridor, including: load flow, N-1 redundancy, conductor capacity, and transition analysis between 8-circuit 380 kV overhead lines on 2 multi-circuit towers and 380 kV underground cable sections	Larsen & Toubro (Neom Green Hydrogen Company and Air Products)	Saudi Arabia	2023
Power System Study and TRANSCO Related FEED Study for MERAM (Maximizing Ethane Recovery & Monetization Project) Plus Project related to the existing 220/132kV system at HABSHAN 5, power system studies of TRANSCO network and study of network in AGP HABSHAN 5, including: load flow, short circuit, motor starting, power correction, harmonic study, resonance study and sensitivity analysis, insulation coordination study, transient stability study and arc flash risk assessment/hazard analysis	Worley (ADNOC Gas Processing)	UAE	2022
Grid Integration Study of HPP Komarnica (170MW) into the power system of Montenegro	Electric Power Industry of Montenegro - EPCG	Montenegro	2022
QP Industrial Cities Solar PV Plants, 2x400MW - Pre-Tender Load Flow, Short Circuit and Reactive Capability Study	Larsen & Toubro	Qatar	2022

Project Title	Client	Country	Year of Completion
Power Transmission and Distribution Networks - Comprehensive electrical design and strategic system planning for 400 kV, 132 kV, 11 kV, and LV transmission and distribution networks across Ras Bufontas and Um Al Houl Free Zones, including: load demand forecasting up to 2040, network topology development, load flow and short circuit analysis using ETAP, MV and LV cable routing and schematics	Qatar Free Zone Authority - QFZ	Qatar	2022
Assessment of the Current 11kV/0415kV Electrical Distribution Network at Hamad Bin Khalifa Medical City (HBKMC) including: site surveys, harmonic measurements, thermal imaging, condition evaluation of SS, and analysis of power quality, load flow, and equipment performance	Hamad Medical Corporation - HMC	Qatar	2021
Al Kharsaah Independent Solar PV Plant (800 MW DC) including connection to Grid (1x220kV OHL double circuit & 2x132kV OHL double circuit - Project Management, Conceptual Design, Design review and Site Supervision for Connection Equipment and Facility SS and Power System Studies including: load flow, short circuit, dynamic and transient stability, harmonic analysis, protection coordination, RAM, arc flash, and VFTO studies for 220/132/33 kV GIS-based connection and facility SSs, in support of grid integration with the KAHRAMAA transmission network	Power China / Sinohydro (Siraj 1)	Qatar	2021

Project Title	Client	Country	Year of Completion
JADAR Project - Industrial Complex for Lithium Containing Ore Excavation and Treatment - HV Design (design of SS Jadar 110/35kV, OHL 110kV Jadar and PRP 110kV) - Electrical Studies in support of design of HV SS and OHL	Rio Sava Exploration	Serbia	2021
Motors Re-starting Study at Q-Chem and Q-Chem II Petrochemical Plants (415 V, 6.6 kV, and 11 kV motors) - System study for re-acceleration and sequential re-starting of motors including: dynamic modelling, ride-through time evaluation, voltage drop and time-current analysis, and optimization of auto-restart sequences under post-disturbance conditions	Qatar Chemical Company - QChem	Qatar	2021
Consultancy Services to Confirm Best Configuration for the Proposed Replacement of Electrical Equipment in Homo, Poly, Ethylene and Utility 33/3.3/0.415 kV SSs covering: load flow, short circuit, motor starting and protection coordination study	Qatar Petrochemical Company - QAPCO	Qatar	2020
QAFAC Network – Power System Studies and Engineering Consultancy Services for 33 kV GIS-based infrastructure, including: load flow and short circuit analysis, switchgear modifications, integration of new feeders between MIB and MID SSs, protection upgrades	Qatar Fuel Additives Company - QAFAC	Qatar	2020

Project Title	Client	Country	Year of Completion
QAPCO-QVC-QATOFIN Electrical Network – Audit and Pre-FEED/FEED studies for the 33 kV, 11 kV, 6.6 kV, and 3.3 kV electrical networks, including: fault root cause analysis, load flow, short circuit, relay coordination, transient stability, harmonic and insulation studies, and reconfiguration design with new 132 kV SSs	Qatar Petrochemical Company - QAPCO	Qatar	2020
Q-Chem, Q-Chem II, and RLOC – Arc flash hazard assessment covering 415 V to 132 kV systems, including: incident energy calculations, arc flash boundary definition, Personal Protective Equipment (PPE) evaluation, short circuit analysis, protection device coordination review, capacitor bank impact assessment, risk mitigation recommendations	Qatar Chemical Company - QChem	Qatar	2020
Dynamic Study for Qatar Transmission System – Consultancy Services for system-wide analysis of the 400/220/132/66/33 kV network, covering: model validation, generator and load modelling, tuning of exciters, governors, and Power System Stabilizers (PSS), voltage and frequency stability analysis, load shedding strategy, load model calibration, incident simulation	Qatar General Electricity & Water Corporation -KAHRAMAA	Qatar	2020
Power System in Hamad Bin Khalifa University Research Development Complex – Assessment and ETAP-based technical study of the LV distribution system fed by ten 11/0.4 kV, 1600 kVA transformers and over 120 LV panels, including: site surveys, load measurements, power quality analysis, load flow and relay discrimination studies, spare capacity evaluation, and technical recommendations for the safe integration of future laboratory loads	ASTAD (Qatar Foundation)	Qatar	2019
QAPCO-QVC-QATOFIN 33 kV, 11 kV, 6.6 kV, and 3.3 kV Electrical Networks - Third-party audit and technical review including: load flow, short circuit, transient stability, harmonic, insulation coordination, and relay coordination studies, with root cause investigation of cascading faults, assessment of generator-grid interactions, and recommendations for improving system stability and protection reliability	Qatar Petrochemical Company - QAPCO	Qatar	2019
33kV Substations for Gabbro Terminal Expansion Project -- Comprehensive power system studies for the design of two new 33kV primary substations (34MVA and 20MVA) at Mesaieed Gabbro Terminal, forming part of the terminal's 30Mtpa capacity expansion, including: detailed load flow analysis, short-circuit calculations, harmonic analysis, arc flash hazard assessment, protection coordination, and integration studies for SCADA and fibre optic communication systems, in support of full electrical design and commissioning of 33kV/11kV infrastructure	Target (Qatar Primary Materials Company – QPMC)	Qatar	2019

Project Title	Client	Country	Year of Completion
Dukhan Township 11kV Distribution System Upgrade - Detailed Design and Engineering Services for strategic upgrade of Dukhan's 11kV distribution network, covering power system studies including: load flow, short circuit, motor starting, relay coordination, and arc flash analysis, to support the construction of 11 new 11/0.415kV substations, decommissioning of 15 obsolete 11/0.415kV units, 11kV ring reconfiguration, HV/LV load transfers, and fiber optic network integration, ensuring resilient and optimally protected power delivery aligned with projected demand through 2022	Voltage (Qatar Petroleum)	Qatar	2019
Dynamic UPS Power Backup for Furnace ID Fan Motors at RLOC – Feasibility and detailed engineering study for dynamic UPS backup of nine 132 kW furnace ID fan motors at the RLOC ethylene production facility, including: site survey, load transfer strategy, feeder relocation, tie-in design, UPS sizing and selection, and integration with the 400 V LV network to ensure uninterrupted operation during grid disturbances and total power failure	Ras Laffan Olefins Company - RLOC	Qatar	2018
Harmonization of Power-related Operational Statistics of Electric Power Industry of Serbia with EU regulations and methodologies	Electric Power Industry of Serbia - EPS	Serbia	2017
Power Supply to QVC II – Conceptual Design and system studies for power supply, including: load flow, short circuit, equipment sizing, voltage level assessment, SS configuration analysis, and evaluation of 66 kV interconnection options with KAHRAMAA, supported by key single-line diagrams, SS layouts, interface definitions, and techno-economic analysis	Qatar Vinyl Company - QVC	Qatar	2017
11kV Smart Grid Network Design - Power system studies for Qatar Foundation's Education City 11kV Smart Grid Pilot Project including: load flow analysis, short-circuit and fault level assessment, simulation and trending of real-time load behaviour across the 11kV network, transient instability analysis from the 66kV incoming supply through the 60 MVA EDC1 primary SS (66/11 kV), dynamic load asset rating based on transformer and cable performance, evaluation of event-triggered load transfer scenarios and substation communication interoperability, comparative energy modelling between AS-IS and Smart Grid scenarios, and optimization of electrical distribution across District Cooling Plants CP1, CP2, and CP4, associated 11kV substations, and more than 10 institutional facilities within the Education City network	White Young (Qatar Foundation)	Qatar	2017
Developing Areas Master Plans & Distribution Network Design and Capacity Improvement – Master planning and network design for 13 developing zones, including 2017–2030 load forecasting, 11 kV power system studies, SS siting and sizing, network reconfiguration, capacitor bank design, and harmonic analysis to enhance system capacity and reliability	Qatar General Electricity & Water Corporation - KAHRAMAA	Qatar	2015
Harmonic Analysis Study and Equipment Condition Assessment Study for 4 distribution 11/0.4kV SSs within HMC Woman's hospital area	Hamad Medical Corporation - HMC	Qatar	2015

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