الفنار
alfanar
PROJECTS

Corporate Profile

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Alfanar Projects is a global company with Saudi roots.

Since the 1970s, we've been growing and diversifying our business to consistently meet the evolving needs of our world. Today, we have transformed into a global project developer, engineering construction & technology solutions provider. Our journey has seen us become a strong presence across three continents – Asia, Europe, and Africa. However, we are not stopping there as we continue to look beyond the horizon, ready for the next challenge.

With a robust portfolio spanning grid, infrastructure, water management, renewable energy, healthcare, process industries, digital innovation, and large-scale infrastructure, our expertise drives modernization and transformation across these critical sectors. We are a leading force in engineering, construction, and technology solutions.

As a core division of Alfanar Group, a leading global manufacturer of low-, medium-, and high-voltage electrical construction products, we bring proven expertise in EPC solutions for conventional and renewable power plants, allied engineering services, and design engineering. Our dedication to quality and precision is reflected in every project we undertake, reinforcing our role in shaping sustainable and future-ready infrastructure.

We pride ourselves on being a key player in the development of sustainable projects, boasting an impressive portfolio of renewable energy and green fuels initiatives. With cutting-edge technologies and an innovative spirit, we are helping to build a sustainable energy future. Our commitment to driving the global energy transition supports countries in their quest to achieve net zero goals, pushing us all towards a decarbonized economy.

Above all, we are dedicated to making a real difference. We provide the innovative solutions that are crucial for today, along with tomorrow's ever-changing world.

Company Overview

Since the 1970s, we have been growing and diversifying our business to consistently meet the evolving needs of our world. Today, we have transformed into a global company with a vast portfolio of landmark projects across multiple sectors.

From our headquarters in Riyadh, Saudi Arabia, we provide a full range of businesses and services in engineering construction, engineering services, project development, digital solutions, and technical training.

With nearly a half-century of innovative application and expertise behind us, Alfanar Projects can deliver a range of custom engineering projects that meet and exceed global standards with the highest level of quality, service, and performance.

Our dedicated and highly skilled workforce of over 28,000 unique minds can handle projects of any scale, maintaining a safe work environment and delivering quality with timely completion targets that exceed our clients' expectations.

With a strong ecosystem of strategic partners and local governments as well as our proven engineering expertise, we have significantly contributed to the economic development of Saudi Arabia, the Gulf region, and across the world by developing scalable and sustainable projects.

48+
YEARS OF EXPERIENCE

93%*
PROJECT QUALITY INDEX

$3.7 billion*
ANNUAL TURNOVER

8+
COUNTRIES

28,000+
DEDICATED EMPLOYEES

1.75 GW
RENEWABLE ENERGY PROJECTS

16 GWh
BATTERY ENERGY STORAGE SYSTEM

Alfanar Projects has become a key player in sustainable development with a growing portfolio of renewable energy projects including wind farms in India and Spain, and a solar park in Egypt.

Currently, a sustainable aviation fuel (SAF) facility in Europe – the Lighthouse Green Fuels Project in Teesside, UK – along with green ammonia projects in Africa and Latin America.

In addition, we have successfully completed a $2.7 billion project with NEOM, Saudi Arabia, to develop and operate sustainable residential communities.

Alfanar Projects is rising to the challenges of our increasingly digitalized world by working on a diverse array of smart solution projects with various clients from the private and public sectors that include the Ministry of Health, the National Water Company, the Saudi Electricity Company, and the Ministry of Industry and Mineral Resources.

As a global company with Saudi roots, we are proud of our heritage and are committed to supporting our homeland in realizing its Vision 2030. We have helped our nation's digital transformation through pioneering projects such as our Smart Meter Project.

Whether it's the ongoing energy transition or the digitalization of industries, we understand that our world is moving at lightning speed and requires a workforce to upskill themselves. For this reason, we have inspired a new generation of talents to be the change-makers of tomorrow through our technical training programs to cohorts from leading industry players:

الشركة السعودية للكهرباء
Saudi Electricity Company
نعمل بإتقان من أجلكم

أرامكو السعودية
saudi aramco

هيئة كهرباء ومياه دبي
Dubai Electricity & Water Authority

سابك
sabic

By collaborating with public and private clients, we are delivering powerful new solutions that support healthy living in our communities and leave lasting legacies through our work.

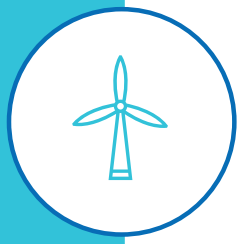
Our Business Lines

We have a vast portfolio of landmark projects across 6 key sectors:

We capitalize on our engineering expertise and deploy advanced technologies to deliver on key projects through various delivery models and services. Several divisions and business lines have been established to provide integrated solutions.

Each of our business units has its own heritage and identity, but they all have one thing in common – they embody our commitment to utilize and invest in advanced technologies to promote digitalization, innovation, and sustainable development.

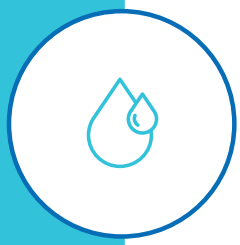
Grid



Renewable Energy

Infrastructure

Process



Water

Digital

Our People

We value, nurture, and empower a combined workforce of over 28,000 brilliant minds through personalized learning paths and training development programs. We do this because we believe that our success as a company is intrinsically tied to the professional growth and advancement of our people.

We also believe that diverse teams led by inclusive leaders deliver better business performance. As a global company operating across 4 continents with distinct teams made up of professionals from different geographies and backgrounds, we value diversity, inclusion, and innovation above all. This has made Alfanar Projects become the partner of choice, respected by everyone for our cooperation and honesty in dealing with clients.

We utilize the most advanced technologies and innovations, supported by our long-lasting expertise in turnkey projects, to get the job done and exceed our clients' expectations.

Above all, Alfanar Projects is committed to sustaining business performance over the long term. Our culture is designed to promote excellence in every aspect of our daily lives. With transparent growth opportunities and job enrichment initiatives, we provide our people with the best facilities and a safe, healthy working environment.

Our people are essential to the successful delivery of our vision.

OUR HISTORY

1976

Year of Establishment
Founded in Riyadh, Saudi Arabia, as Alfanar Construction.

1990

First Power Plant Project
Completion of a 40 MW Power Plant in Qurayyat, Saudi Arabia.

2015

First Solar Project
Construction of a 50 MW Solar PV Plant at Egypt's Benban Solar Park.

2011

Haramain High-Speed Railway Substations
Construction of six 380 kV GIS substations across Makkah, Madinah, Rabigh, and Jeddah, completed in record time.

2017

Lanuza Wind Project, Spain
Awarded 500 MW wind farm spread across 23 sites in Spain.

2018

Major Wind Projects, India
Awarded two 300 MW wind farms in Gujarat.

2024

Jazan Entertainment Complex
The project includes the construction of diverse structures on a Shell and Core basis, with entertainment features integrated on a provisional sum basis.

2024

First Utility Scale Battery Storage
This project marks a significant step toward strengthening Saudi Arabia's energy infrastructure and grid stability.

2024

Tuwaiq Casting & Forging Plant
The most prominent features of the Kingdom's industrial undertakings in Ras Al Khair Industrial City.

1997

First Outdoor Substation

Construction of the Wadi Jaleel 380/110 kV Outdoor Substation in Makkah.

2003

First 380 kV Indoor Substation

Development of the Jeddah North 380/110/13.8 kV Indoor Substation.

2009

First Underground Cabling Project

Completion of the 380 kV Underground Cabling (UGC) project at Princess Nourah University, Riyadh.

2004

First Overhead Transmission Lines Project

Implementation of a 115 kV Overhead Transmission Line (OHTL) in Eastern Province, Saudi Arabia.

2020

Smart Meter Rollout, KSA

Installed 5 million smart meters nationwide, driving digitalization.

2021

Lighthouse Green Fuels Project, UK

Development of Europe's largest Sustainable Aviation Fuel (SAF) facility in Stockton-on-Tees.

2023

NEOM

A $3 billion investment, delivered a revolutionary and exciting village for the densely populated communities in NEOM.

2023

Rebrand to Alfanar Projects

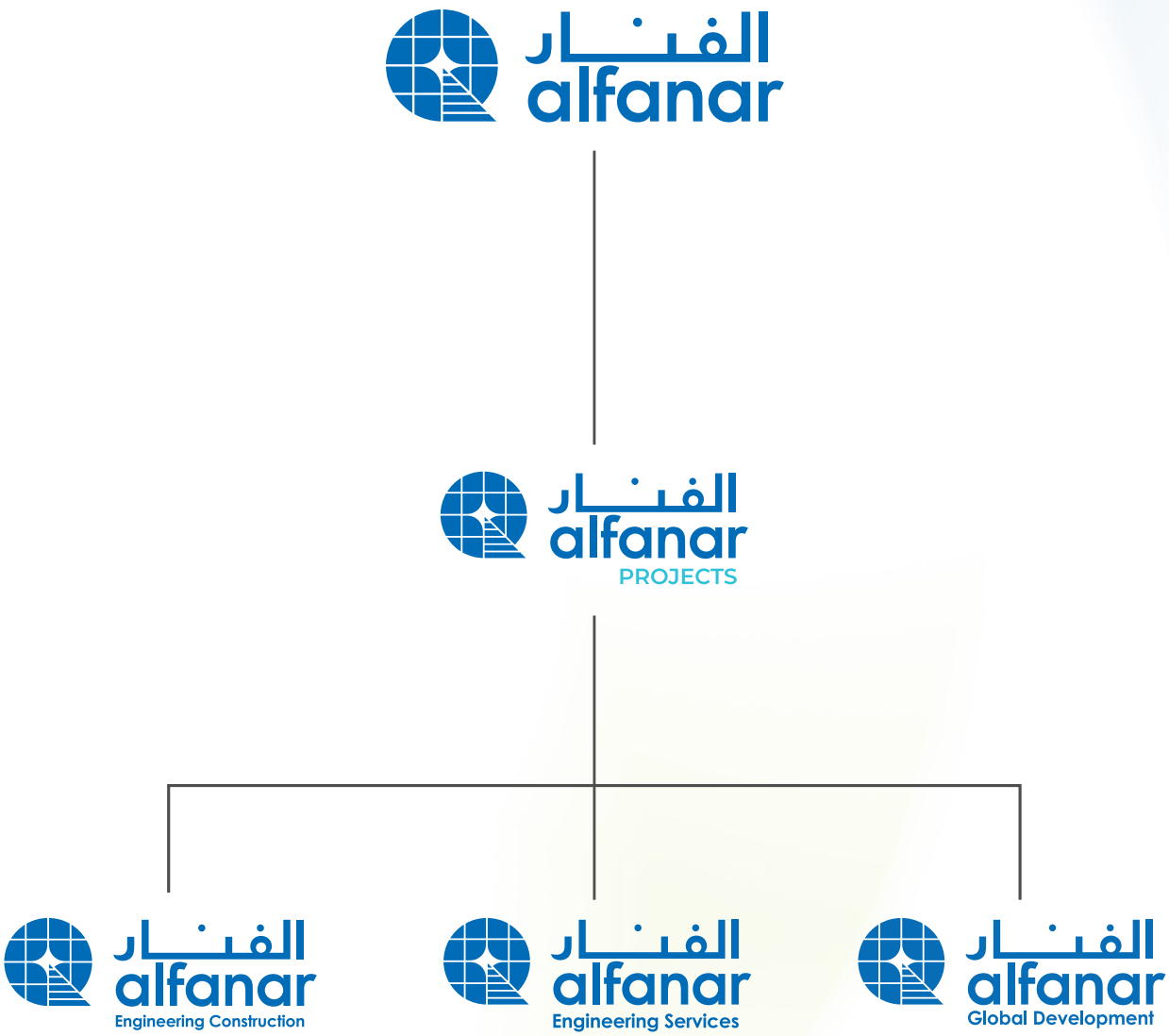
The company officially changes its name to Alfanar Projects.

2024

First HVDC Converter Stations Project

The development of the largest High-Voltage Direct Current (HVDC) Converter Stations project in the Middle East and North Africa.

Thriving in our Fifth Decade of Growth.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Engineering Construction
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Engineering Services
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Global Development

Discover our World-leading Brand Portfolio.

Established in 1976, Alfanar – which means 'lighthouse' in Arabic – is the largest privately-owned manufacturer of electrical and electronic products in Saudi Arabia. Today, we have many diversified business divisions and have built up an international presence across three continents.

PROJECTS

A key division of Alfanar Group, Alfanar Projects is an integrated global project developer, engineering construction, and technology solutions provider. We have a vast portfolio of renewable energy and green fuels projects that meet the increasingly complex needs of energy, water, and infrastructure across the globe.

Alfanar Global Development

Since 2015, the global development arm (AGD) of Alfanar Projects has provided planning, finance, design, build, and operational assets across grid, water, infrastructure, renewable energy, process, healthcare, and digital sectors.

10
ACTIVE PPP PROJECTS

1.7 GW
RENEWABLE ENERGY GLOBAL PROJECTS

3 GW
GREENFIELD DEVELOPMENT PROJECTS

6 million m²
BUILD UP AREA

250
HV & EHV SUBSTATIONS ACROSS SAUDI ARABIA

400+
PROJECTS

$25+ billion
WORTH OF PROJECTS

Alfanar Engineering Construction

Beginning in 1976, the engineering construction arm of Alfanar Projects offers a comprehensive range of services under Engineering, Procurement, and Construction (EPC), Engineering, Procurement, and Construction Management (EPCM), or Lump Sum Turnkey (LSTK) contracts for clients across different sectors.

Alfanar Engineering Services

Established early 1998, the engineering services arm (AES) of Alfanar Projects operates across four business units and specializes in technical services, calibration services, testing & commissioning services, and operation & maintenance services.

3,500+
CONTRACTS

$880 million
WORTH OF PROJECTS

101
ONGOING TESTING & COMMISSIONING PROJECTS

$30 million
INVESTMENT IN EQUIPMENT

100+
PROJECTS

$1.4 billion
INVESTMENT IN DATA CENTERS

5 million
SMART METERS DEPLOYED IN SAUDI ARABIA

80+
PUBLIC AND PRIVATE SECTOR CLIENTS

Alfanar Digital Solutions

For the past 20 years, the digital solutions arm (ADS) of Alfanar Projects has offered system integration, cybersecurity, cloud computing, artificial intelligence, machine learning, and data analytics solutions for both the government and private sectors.

GLOBAL PRESENCE

24+

COUNTRIES WITH OFFICES, PRODUCTION, AND R&D CENTERS

1,900+

PROFESSIONAL ENGINEERS

$7.2 billion

GLOBAL PPP PROJECTS

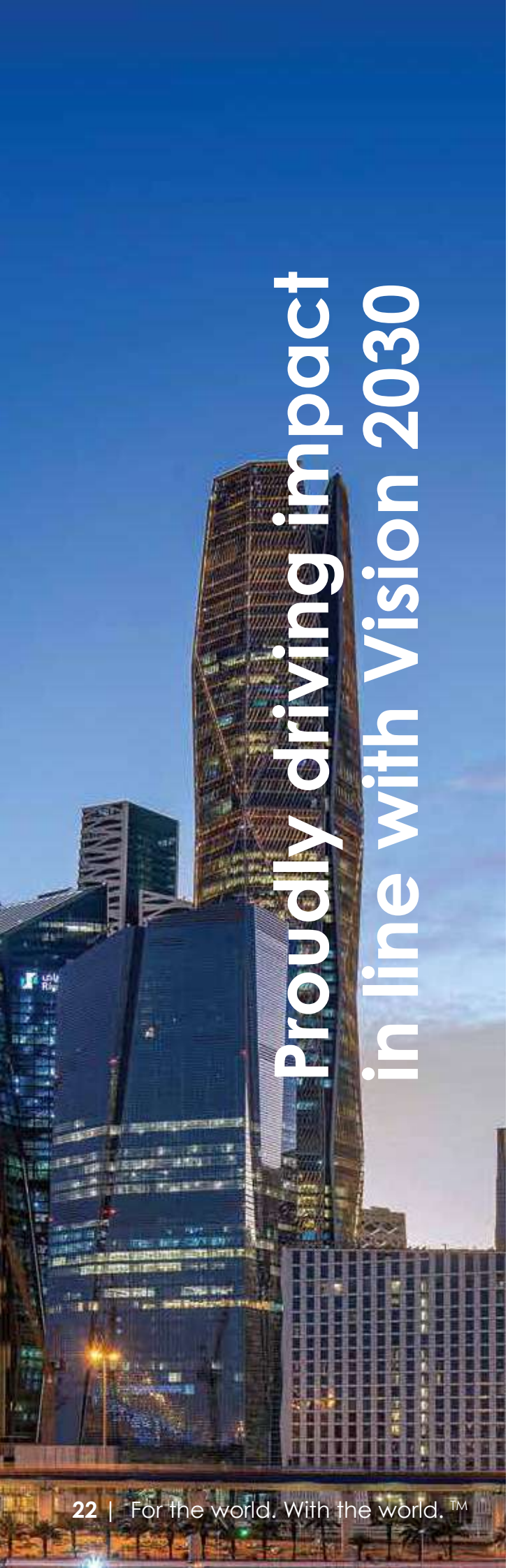
3,820+

CONTRACTS

SUPPORTING NATIONAL VISIONS

We continue to drive the global energy transition towards a decarbonized economy. From Saudi Arabia to the rest of the world, our ongoing sustainability projects play a crucial role in supporting different nations to achieve their net zero goals.

WORKING FOR THE WORLD.
WITH THE WORLD.



Proudly driving impact in line with Vision 2030

SAUDI ARABIA

As a Saudi company, our mission has always been aligned with the Kingdom's long-term ambitions. We don't just support Vision 2030, we actively deliver on its pillars through transformative projects across energy, industry, infrastructure, and innovation.

Our delivery of the Tuwaiq Casting and Forging facility set a new benchmark in industrial diversification, advancing local manufacturing and enhancing non-oil revenue streams. In energy, we executed the world's largest single-phase Battery Energy Storage System (BESS) project in just 11 months and are currently rolling out an additional 2.5 GW across five strategic locations.

We are also entrusted with delivering all four converter stations of the national HVDC initiative, pivotal for long-distance, high-efficiency power transmission. Our $1.4 billion investment in next-generation data centers in Riyadh and Dammam is another milestone in powering the Kingdom's digital infrastructure.

Our role goes beyond building infrastructure we're actively shaping vibrant communities through projects like the Jazan Entertainment Complex with SEVEN, creating spaces that contribute to cultural and social development.

At the same time, we're accelerating local content by deepening partnerships with Saudi suppliers and expanding the national talent pool. This commitment includes clear business targets focused on hiring, developing, and empowering Saudi talents, who work every day to help define the future of the nation.

$ 1.4 billion
Data centers

6
Sectors

UNITED KINGDOM

By 2050, the United Kingdom is legally required to have reduced its greenhouse gas emissions by 100% from 1990 levels. To achieve this target, the Department for Transport has developed a Jet Zero Strategy for the UK's aviation industry with a clear goal to deliver net zero emissions.

Our investment in the Lighthouse Green Fuels project is a landmark step in reshaping the UK's sustainable aviation sector. Located in Billingham, Teesside, this £1.5 billion facility will be the largest and most advanced of its kind in Europe.

Once operational in 2028, the plant will process over 1 million tons of non-recyclable waste and biomass feedstock annually to produce more than 165 million liters of second-generation Sustainable Aviation Fuel (SAF). This project is not only expected to cut aviation emissions significantly but will also generate over 1,000 construction jobs and 240 permanent roles, directly supporting regional economic growth and national net zero ambitions.

£2 billion
SAF

1.5 million
Tons of biogenic waste feedstock

180 million
Liters of SAF annually

2029
First production

Contributing to Spain's progress to achieve net zero by 2050

SPAIN

Spain's National Energy and Climate Plan (NECP) is the strategic planning tool that integrates energy and climate policies to achieve climate neutrality by 2050, as set by the European Union.

Our renewable energy portfolio in Spain includes multiple wind farms with a combined capacity of 137 MW. These projects are helping reduce nearly 400,000 tons of CO_2 emissions every year while contributing to the country's efforts to phase out fossil fuels.

With plans to further grow our footprint in Spain, we remain focused on delivering dependable clean energy solutions that support the European Union's carbon neutrality goals and drive long-term sustainability.

400,000 tons
CO_2 emissions

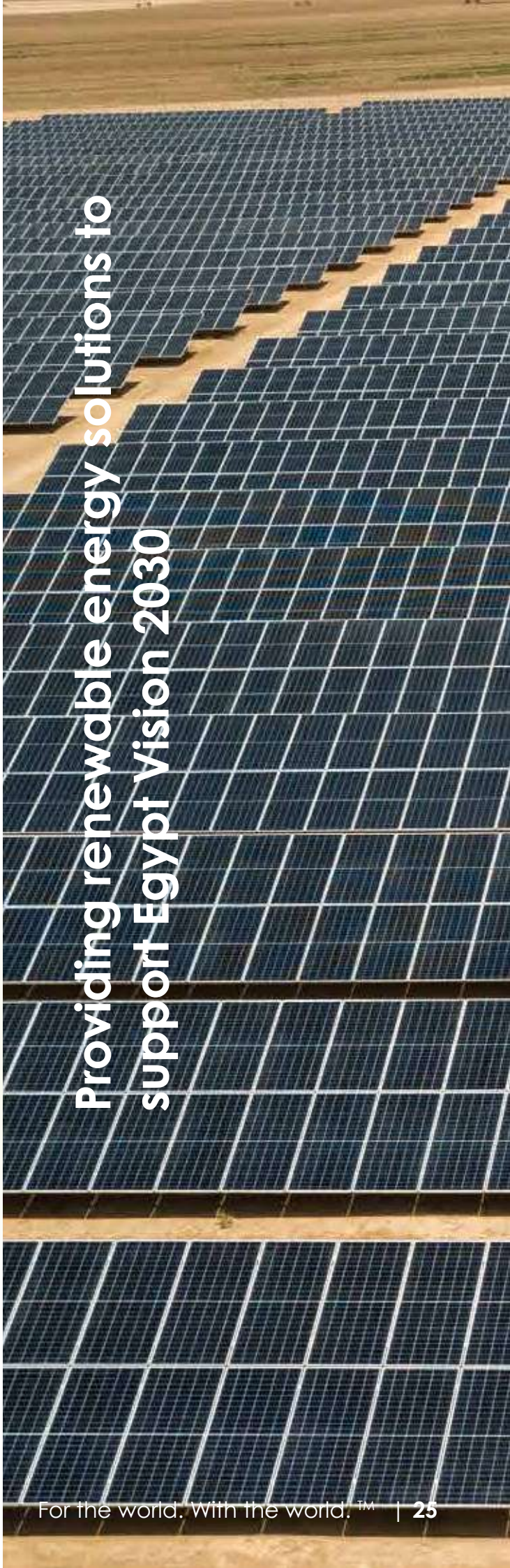
3 GW
Green field development

EGYPT

In support of Egypt's energy transition, we developed the AlfaSolar 50 MW solar park in Benban, Aswan. Completed in 2019, this solar park is expected to reduce more than 60,000 tons of CO_2 emissions annually.

This initiative marks the beginning of our long-term commitment to delivering clean energy infrastructure that supports sustainable growth and reinforces Egypt's position as a renewable energy hub in the region.

60,000 tons
CO_2 emissions



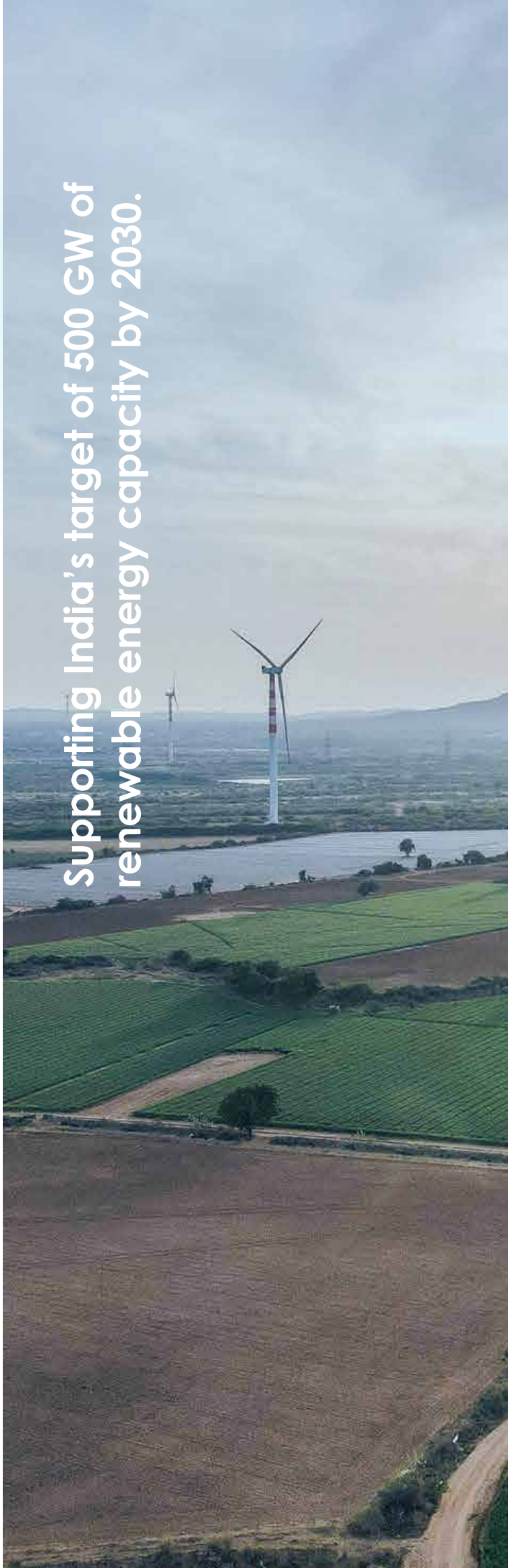
INDIA

We are actively contributing to India's clean energy goals through large-scale wind projects that are already making an impact. Our installations in the Kachchh district of Gujarat produce clean electricity with a total capacity of 600 MW, reducing nearly 1 million tons of CO_2 emissions annually.

By delivering reliable, utility-scale renewable energy, we are playing a key role in India's journey toward decarbonization while creating long-term value in one of the world's fastest-growing energy markets.

600 MW
Project capacity

978,399 CO_2
Emissions reduction



Our purpose is to answer the **complex needs** of our world.

As climate change threatens the existence of our civilization and that of future generations, we have come together 'with the world' to fight this change by developing innovative sustainable solutions powered by a unique combination of revolutionary technologies, extraordinary engineering minds, and passion for protecting our planet.

For the World.
With the World.™

Building a sustainable future

Our vision is to be a global leader in sustainable project development and engineering construction by leveraging our proven expertise and deploying revolutionary technologies that will safeguard our planet and improve people's lives.

We are passionate about reducing the environmental impact of the industries we serve, and we recognize that the future depends on embracing alternative energy sources.

Our Commitment to Sustainability

Our specialization lies in developing and investing in renewable energy projects, including CSP, PV, wind energy, biomass, geothermal, and waste-to-energy solutions. These projects play a crucial role in supporting different nations to achieve their net-zero goals and visions. From Saudi Arabia to the rest of the world, close collaboration with local governments is ongoing on giga energy projects and national sustainability visions.

Our vision is to improve people's lives through building cutting-edge facilities and infrastructure that communities need while also caring for the environment in which we work. We do this by holding true to our values, putting integrity at the heart of our company, and collaborating with our clients and partners to deliver lasting change and long-term value.

Working Responsibly to Protect our Planet and Society.

We develop, construct, and operate a vast portfolio of renewable energy and green fuels projects to decarbonize the global economy. But we are also conscious of our impact on the world. For that reason, we measure our performance by rigidly following 4 sustainability practices:

ENVIRONMENTAL

Modern methodologies and processes are adopted to rationalize the use of resources and minimize environmental impact, while suppliers and partners are urged to fulfill their environmental regulations.

SOCIAL

The aim is to leave a positive legacy in the world in which operations take place. Support is extended to social, cultural, and technological initiatives carried out by communities, with a preference for solutions that aid their development.

GOVERNANCE

A culture of transparency is promoted across global operations through the establishment of internal departments that adopt clear operational procedures and policies to ensure consistency and compliance. This is reinforced by internal auditing teams that continuously review and report all activities.

ECONOMIC

Market needs are anticipated, met, and exceeded by developing innovative and sustainable solutions. Possibilities in the unexpected are explored while local development is consistently supported to ensure all choices remain sustainable.

OUR BUSINESS LINES & KEY PROJECTS

Our strength lies in our abilities to fulfil our commitments and deliver high-quality projects in a timely manner while also ensuring utmost satisfaction of our clients and partners.

GRID

We work tirelessly to keep the grid functioning efficiently and our expertise is built upon decades of experience across power transmission, generation, and distribution projects.

RENEWABLE ENERGY

As our world strives for more environmentally friendly solutions to tackle climate change, we are driving the transition in global energy consumption by developing, constructing, and operating clean energy projects.

INFRASTRUCTURE

When it comes to a good quality of life for a nation, region, city, or even a neighborhood, resilient infrastructure is indispensable. We are prepared to deliver sustainable infrastructure projects from the ground up that make a long-lasting, positive impact.

PROCESS

With the growing focus on innovative technologies to reduce greenhouse gas emissions, we support our clients in achieving their Net-Zero goals by delivering high-quality projects that meet global energy demand. Our LSTK and EPC portfolio includes industry leaders such as Saudi Aramco, Petro Rabigh, SABIC, Polysilicon Technology Company, Daewoo Group, and GASCO. A key example is our Sustainable Aviation Fuel (SAF) plant under development in Teesside, UK, set to convert over 1 million tonnes of non-recyclable waste into more than 165 million liters of SAF.

WATER

Access to clean water and sanitation is important for humankind; and its availability, or lack of it, determines the road to community welfare and prosperity or poverty and misery. This is why we are at the forefront in developing, constructing, and operating water desalination and wastewater treatment plants.

DIGITAL

In an increasingly data-driven world, digital transformation is no longer optional; it's foundational. For over two decades, we've delivered innovative solutions in system integration, AI, cybersecurity, IoT, and data analytics for both public and private sectors. From deploying over 5 million smart meters in Saudi Arabia to investing $1.4 billion in hyper-scale data centers, and with more than 100 projects delivered, we continue to drive operational efficiency, resilience, and innovation across industries.

Grid

Our extensive work on the electrical grid is a testament to our capabilities in completing power projects in record time. We started out by serving the Saudi utilities sector in the 1970s, and while we still continue to grow our presence in the Saudi market, today, our eminent power projects span across different countries, including the UAE, Bahrain, Egypt, India, Spain, and the UK.

Our evolving commitment to power projects has come a long way. We are now providing engineering construction solutions that are in line with QA, QC, and HSE policies and procedures. We are also developing and operating large-scale grid projects, which all help to drive growth in communities because the power provided never stops.

The future of electrical energy is very important to us and that is why we are constantly involved in projects that harness new technology, such as smart meters. We hold ourselves to high standards and repay our clients' and partners' faith in our ability to handle complex projects.

Our work keeps the grid resilient, efficient, and secure.

TRANSMISSION & DISTRIBUTION

Our grid projects began by serving the Saudi utilities sector in the 1970s, and while we continue to grow our presence in the Saudi market, today, our eminent power projects are also scattered across different countries. These include the UK, Egypt, India, Spain, the UAE, and Bahrain, to name a few.

Our work is not restricted to construction, as we are also developing and operating large-scale grid projects that are an integral part of the wider energy landscape picture. These endeavors are helping communities grow and driving more successful economies by keeping the electricity flowing.

As the energy sources utilized in the grid continue to evolve, so do we.

Substation

HVDC

OHTL

Battery Storage

Underground Cabling

PROJECTS

GRID

Yanbu, Umluj, and Al Wajh Substations Extension

We have been given the opportunity to enhance the power infrastructure in Yanbu, Umluj, and Al Wajh. Through lump sum turnkey contracts, we have been entrusted with the crucial task of extending the 380 kV substations, a cornerstone for the region's energy needs.

We are providing our expertise to support the design, engineering, procurement, quality management, transportation and delivery to site, installation, construction, site inspection, and testing and commissioning of this project.

Throughout the project, we will be more than a service provider and we are working hand-in-hand with the Saudi Electricity Company (SEC). From inception to the final handover, our involvement aims to ensure that these substations are exemplary, in order to set a high standard for the region's future energy needs.

380 kV
Substation

GRID

Bisha Battery Energy Storage System (BESS)

In Bisha, Alfanar Projects has completed a ground-breaking 2000 MWh battery energy storage system, the largest in the region. The project, which was created in partnership with China Electric Power Equipment and Technology (CET), a division of the State Grid Corporation of China (SGCC), is a significant step toward meeting Saudi Arabia's clean energy goals for Vision 2030.

The facility covers engineering, procurement, and construction work. It has 488 high-capacity battery packs backed by cutting-edge energy management systems to guarantee grid stability, integration of renewable energy sources, and continuous backup during periods of high demand or supply fluctuations.

Site preparation, battery installation, electrical infrastructure, and full grid connection are all included in the construction activities. The system, which is built to be resilient and efficient, will store energy during off-peak hours and release it when required, enhancing power reliability throughout the grid.

The BESS will be vital in supporting Saudi Arabia's energy transition, delivering sustainable infrastructure that sets a new benchmark for clean energy innovation across the Middle East.

2000 MWh
Battery Energy Storage

488
High Capacity Battery packs

GRID

High-Voltage Direct Current (HVDC) Converter Stations

In development are the largest High-voltage Direct Current (HVDC) converter stations in the Middle East and North Africa, with an estimated value of $3.7 billion. This strategic infrastructure is set to redefine the Kingdom's energy sector and expand its transmission capabilities.

The HVDC stations, designed to transmit up to 7 GW of electricity across long distances, will connect the central, western, and southern regions of Saudi Arabia. Beyond enhancing grid reliability, the project plays a key role in integrating renewable energy into the national grid and reducing environmental impact, supporting the Kingdom's transition to a cleaner, more sustainable energy future.

7 GW
Transmission

Haramain High Speed Railway Substations

We started this strategic project to power the railway in 2011 and completed it in a record time of 24 months. This project consisted of six 380 kV GIS substations spread across Makkah, Knowledge Economic City in Madinah, King Abdullah Economic City in Rabigh, and King Abdulaziz International Airport in Jeddah.

x6
380 kV
Substation

Renewable Energy

By harnessing clean energy, we have developed a strong portfolio of up to 1.75 GW of renewable energy projects across the world. We continue to drive the global energy transition towards a decarbonized future and are also supporting countries in achieving their net zero goals.

A MIX OF CLEANER & GREENER ENERGY

Promoting renewable energy sources as a vertically integrated independent power producer (IPP).

As a pioneer in the Kingdom's renewable sectors, we have been continuously evolving to meet increasing global energy needs in a sustainable manner. Today, our landmark renewable energy projects are present in Egypt, India, Spain, Saudi Arabia, and the United Kingdom, while we are working towards expanding into newer geographies.

To tackle the climate emergency, we need to think and act fast, with a drive to go beyond what we have been doing. For example, Lighthouse Green Fuels (LGF) project in Teesside, the UK, is a cutting-edge green fuel refinery designed to address the UK Government's 10% sustainable aviation fuel (SAF) target by 2030. We acquired existing Teesside sites in 2018, and we are now transforming brownfield areas into an LGF renewable fuel refinery, fully integrated into the UK's energy grid.

Promoting renewable energy sources as a vertically integrated independent power producer (IPP).

In 2020, we acquired a 100% stake in the Indian OEM division of German turbine manufacturer, Senvion India, as well as its research and development centers. Improving our competitive advantage, delivering value to our partners, and creating a sustainable future for the coming generations have inspired us to work across the wind energy value chain.

Our work in contributing toward alternative energy sources is in full swing. In 2022, we signed an MoU with ministries and authorities in Egypt to develop a green hydrogen project that will be powered by renewable energy sources and have an annual production capacity of 100,000 tons of green hydrogen and 500,000 tons of green ammonia.

Our renewable energy initiatives include projects in:

Solar | **Wind** | **Green Hydrogen** | **Green Ammonia** | **Sustainable Aviation Fuel**

PROJECTS

RENEWABLE ENERGY

Wind Farms in India

In the Kachchh district of Gujarat, India, we operate two wind projects that generate 300 megawatts (MW) each, producing clean electricity from the wind. This power is sold to the Solar Energy Corporation of India under a long-term agreement.

The entire project has a total capacity of 600 MW. This renewable energy initiative reduces carbon emissions by a significant amount, with an average yearly reduction of 978,399 metric tons.

600 MW
Renewable energy

Wind Farms in Spain

We have a network of five wind farms in Spain, collectively generating an impressive 173 MW of power. These wind farms include Estancia WF, Escalereta II WF, Chinchilla de Montearagón WF, Barrax norte-Sur WF, and Soliedra WF.

Our involvement in these projects encompasses their entire lifecycle, from development and construction to ongoing operation. These efforts have resulted in nearly 290 tons of CO_2 emissions being mitigated annually, exemplifying our ongoing commitment to sustainable energy solutions.

173 MW
Renewable energy

Infrastructure

From **schools and universities, hospitality venues, hotels and airports to residential complexes, city centers, and malls** – every building in a town or city plays an important role in fulfilling either the safety, physiological, or leisure needs of the local population. We understand the importance and relevance of these structures and that is why in all our infrastructure projects, we focus on optimized spaces, innovative environments, and adaptable designs.

RESILIENT & SUSTAINABLE INFRASTRUCTURE

We have built more than 6 million square meters of build-up area using modern methods of construction (MMC) – all while keeping adaptability, usability, and sustainability in mind. Through Public-Private Partnerships (PPP), we strengthen local communities by supporting their government's efforts in designing, building, and maintaining critical infrastructure.

In all our infrastructure projects, we minimize risk and accelerate delivery to achieve ambitious goals. Our portfolio is spread across site development, residential, commercial, and industrial building construction, brownfield development, and digital infrastructure development (including data centers). We also offer a comprehensive EPC solution for electromechanical works for commercial, residential, and industrial segment projects.

Green infrastructure and smart city technologies are imperative initiatives to help build for the future.

We are one of the few companies shortlisted by the Saudi Ministry of Education to work on school infrastructure development, and we are also qualified by the Saudi General Authority of Civil Aviation (GACA) to work on planned airport infrastructure. Various projects such as Saudi Aramco Schools, Khurais Residential Complex, and NEOM's sustainable residential communities are a testament to our infrastructure capabilities.

We specialize in developing infrastructure for:

Entertainment shopping malls, amusement centers, parks, and sports facilities

Residential complexes compounds and parking

Transportation airports, railway stations, and highways

Education schools, colleges, and universities

Hospitality hotels and resorts

PROJECTS

INFRASTRUCTURE

This project is one of our key milestones. With a $3 billion budget, we are committed to delivering five villages designed to accommodate 50,000 residents for the densely populated communities in NEOM. As part of Saudi Arabia's Vision 2030 to reshape the residential landscape, we have been awarded the opportunity to design and construct four different types of accommodation units, spanning four million square meters across the five villages. These villages will boast cutting-edge building technologies to ensure efficiency, sustainability, and superior living standards.

The project created a new village and provided amenities for all residents, positively impacting their daily lives. These amenities will include utilities such as energy and water, healthcare clinics, computerized waste management facilities, wastewater reuse solutions, captive solar power generation, emergency services, public transport, and even shops. Residents will enjoy various recreational and wellness facilities, including gyms, spas, swimming pools, sports courts, and play areas.

5
Villages

50,000
Residents

4 million
Square meters

216,000 sqm
Sports facilities & courts

INFRASTRUCTURE

Jazan Entertainment Complex

The Jazan Entertainment Complex, developed in collaboration with Seven Saudi Entertainment Ventures, is a comprehensive initiative encompassing the design and construction of various structures and facilities.

The Lump Sum Turnkey contract includes the completion of civil, architectural, and electromechanical works, as well as associated activities. The project includes the construction of diverse structures on a Shell and Core basis, with entertainment features integrated on a provisional sum basis.

The complex will feature an AMC cinema, Seven FEC (Family Entertainment Center), Pre-Teen Edutainment, Edutainment facilities, Go Kart track, Black Box venue, Bowling alley, Parking facilities, Retail/F&B shops, Indoor Golf facility, along with road works, landscaping (softscape & hardscape), and utilities such as sewage, stormwater, electrical, mechanical, HVAC, sewage system, and ICT infrastructure.

The construction process will encompass a range of major activities, including earthwork, cast-in-situ concrete works, underground dampproof works, precast concrete installation, structural steel erection, waterproofing, architectural works (masonry, floors, walls, paints, coating, ceiling, etc.), joinery works, installation of entertainment items, road works, landscaping, and the establishment of utilities networks. Additionally, the project involves tying in with existing utilities, including electricity, water, and sewer systems. The completion of the project will also include the generation of as-built drawings in Building Information Modeling (BIM) format, providing a comprehensive record of the constructed facilities.

73,000 m²
Total build up area

7
Unique entertainment experiences

INFRASTRUCTURE

Sheybarah South Hotel-10

In addition to the Four Seasons Hotel, we are also working with The Red Sea Development Company to help operate water villas and beach villas for the Sheybarah South Hotel. This exciting development consists of developing shop drawings, procurement, construction, and testing and commissioning the project's MEP system. We are also involved in constructing a new cafeteria and important parking facilities for this 7-star resort.

NEOM High Density Project

We are vitally involved in supporting NEOM. The organization is creating high-density residential units and central amenities, and we are helping them develop state-of-the-art communities. Our involvement includes the design, procurement, and construction of two residential unit plots. The first plot contains 1,625 units, while the second includes 453 units.

As the project approaches completion, it will help NEOM progress toward its goal of becoming a beacon of modern living. Residents will benefit from a range of amenities, such as landscaped green areas, swimming pools, play areas, wellness facilities, and spaces designed to foster community engagement and enhance quality of life.

2,078
Units

INFRASTRUCTURE

Tuwaiq Casting & Forging Plant is one of the most prominent features of the Kingdom's industrial undertakings in Ras Al Khair Industrial City. It was built by Alfanar Projects through a strategic partnership between Aramco and Dussur, in collaboration with Doosan Enerbility, which is strategically impactful in aid of the Kingdom of Saudi Arabia's localization and industrialization initiatives.

The Lump Sum Turnkey contract encompasses all civil, structural, architectural, and electromechanical systems for a 400,000 square meter site area with 39 buildings and a 182,000 square meter built-up area. Important Works include monumental excavation, 122,000 cubic meters of Concrete Pouring, 25,000 MT Structural Steel Erection, Cladding, and Heavy Industrial Equipment Installations.

The Heating, Casting and Forging, Melting, Machining, and Non-Destructive Testing workshops are served by sophisticated machines, such as an electrical Engineering Substation, cooling equipment, Water Treatment Facilities, MEP, Safety Systems, and treated integrated infrastructures.

Tuwaiq will further aid the Kingdom's industrial vision, which strives to spearhead growth in the country's heavy manufacturing arm. The Tuwaiq plant is positioning itself as a pivotal asset with a goal of 60,000 tons of annual production output.

182,000 m²
Built-up area

400 KM
Electrical cables

122,000 m³
Concrete

25,000 MT
Structural steel

Process

The global process industry is going through significant transformation. Increased reliance on disruptive technologies for reducing greenhouse gas (GHG) emissions through carbon offsets, as well as companies' own net zero goals, are driving the sector to new heights. Fuels and energy sources - whether green or conventional - need to keep our world in motion without leading to catastrophic climate change. We understand this, and that is why our key projects in this sector answer the world's energy demands while also advocating a reliable and sustainable approach.

UPSTREAM, MIDSTREAM, DOWNSTREAM

We are redefining process industry standards by integrating sustainability at every level of the value chain, transforming traditional energy operations into smarter, cleaner, and future-ready solutions.

Our client portfolio for LSTK and EPC projects includes some of the industry's leading companies like Saudi Aramco, Petro Rabigh, SABIC, Polysilicon Technology Company, Daewoo Group, and National Gas and Industrial Company (GASCO).

Driving energy transformation with precision, reliability, and innovation across every stage of the process value chain.

Through the implementation of advanced technologies of the Fourth Industrial Revolution (4IR) and Industrial Internet of Things (IIoT), we monitor electrical machines in real time to avoid failures and unplanned downtime while boosting efficiency and saving costs for our clients. Today, we are the only certified company in the Middle East and Asia that has been approved by Saudi Aramco to repair and rewind 27,000 explosion-proof motors.

We've also been quick to adapt to the transformation in this dynamic sector by foraying into value from waste (VfW) projects. We are currently developing and constructing a Sustainable Aviation Fuel (SAF) plant in Teesside, UK. Once operational, the facility will convert over 1 million tons of non-recyclable waste into more than 165 million liters of SAF.

Our process sector capabilities include:

- **Upstream, Midstream, Downstream**
- **Advanced Monitoring**
- **Explosion-Proof Motor Repair**
- **EPC & LSTK Expertise**
- **Value from Waste (VfW)**

PROJECTS

PROCESS

Lighthouse Green Fuels Project

Our Lighthouse Green Fuels (LGF) project in Teesside, the UK, is a cutting-edge green fuel refinery designed to address the UK Government's sustainable aviation fuel (SAF) targets by 2030. Acquiring existing Teesside sites in 2018, Alfanar Projects will transform brownfield areas into a renewable fuel refinery, fully integrated into the UK's energy grid.

The LGF plant processes over 1.5 million tons of biogenic waste and residues annually, converting it into 180 million litres of SAF and additional green co-products. Through a sophisticated process involving gasification, syngas cleanup, Fischer Tropsch (FT) synthesis, hydrocracking, and fractionation, the LGF plant produces ASTM-certified "drop-in" SAF, known as Fischer Tropsch Synthetic Paraffinic Kerosene (FT-SPK).

Crucially, the LGF plant is equipped with carbon capture and storage (CCS) technology, removing CO_2 from the syngas stream for efficient FT synthesis. This high-purity CO_2 is ideal for sequestration, maximizing emission reductions.

Alfanar plans to maximize CCS by capturing on-site power plant emissions, significantly reducing the carbon intensity of its fuels. The LGF process achieves up to 80% greenhouse gas emissions savings compared to fossil fuel-derived kerosene, and with CCS, it achieves over 150% lower carbon intensity than conventional kerosene, representing a remarkable contribution to negative emissions.

£2 billion
SAF investment

1.5 million
Tons of biogenic waste feedstock

180 million
Liters of SAF annually

2029
First production

PROCESS

We supported this lump sum turnkey project by designing and constructing civil, architectural, and electro-mechanical works for residential buildings. While safety and quality were one of the key challenges in this project, we put in robust plans and processes to ensure we met our own exacting standards of excellence.

We also achieved a 98.1% Performance Quality Improvement score (PQI) from Saudi Arabia's natural gas experts Aramco, which is the highest they have awarded in their history.

Water

It's easy to think that water will always be plentiful, but in reality, less than 2 percent of Earth's water is safe to drink. This problem is further exacerbated in the Middle East which has extremely scarce freshwater resources. This is where we come in. Our work on desalination plants and waste water treatment plants immensely supports authorities to meet local water demands.

SECURING A SAFE, CLEAN, AND SUSTAINABLE WATER SUPPLY.

As water is such an important natural resource, we are dedicated to providing a clean and sustainable supply to our regions. We have decades of experience in the water sector, and we are constantly adopting innovative initiatives for lowering the cost of water desalination and wastewater treatment, as well as reducing overall power consumption.

Providing a safe, clean, and sustainable water supply.

Our impressive portfolio of water projects includes landmark projects like phase 3 of the Jeddah Reverse Osmosis Desalination Plant that has a daily production capacity of 240,000 m³.

We are experts in developing, constructing, and operating all types of:

- **Water Desalination Plants**
- **Wastewater Treatment Plants**
- **Strategic Storage Reservoirs**
- **Sewage Treatment Plant**

PROJECTS

WATER

Jeddah Reverse Osmosis Plant

This project allowed us to demonstrate our expertise and play an important role in guaranteeing its success. We were given the responsibility to be the EPC contractor for the reverse osmosis plant in Jeddah. We oversaw the engineering, procurement, and construction aspects as part of our onshore and building works projects. The project was successfully completed in 32 months, with a total value of $48.2 million.

Jeddah Airport Independent Sewage Treatment Plant

As connectivity between the Kingdom and the rest of the world becomes even more important, we are helping to ensure transportation hubs operate efficiently. We are building and operating an independent sewage treatment plant near Jeddah airport to support both the airport itself and the residential areas of central and northern Jeddah. This will help as the region becomes more populated. With a current total capacity of 300 m^3/d, we aim to complete this project with a treatment capacity reaching 500,000 m^3 per day.

500,000 m^3
Treatment capacity

WATER

NEOM Construction Villages Sewage Treatment Plants

We are overseeing the sewage treatment plants for 5 construction villages. The project began in November 2022 and is set to run for 7 years in total. We are designing, building, financing, and operating the construction villages before transferring them back to NEOM when the contract ends with a total capacity 25,000 m^3/d.

25,000 m^3
Treatment capacity

Digital

As industries embrace data-centric strategies, our work enables enhanced connectivity, performance, and resilience, laying the foundation for a smarter future. For over 20 years, our digital sector has been at the forefront of innovation, supporting governments and private organizations in their transition to intelligent operations.

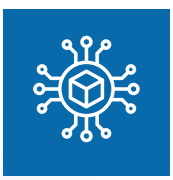
POWERING THE DIGITAL ERA

We are contributing to a more connected and efficient world through projects that harness the full potential of the Fourth Industrial Revolution (4IR). From smart meter deployments and IoT integration to hyper-scale data centers and cloud platforms, our solutions are designed to deliver long-term economic, operational, and social impact.

Delivering smart, secure, and scalable digital solutions.

Our track record includes more than 100 major digital projects, the deployment of over 5 million smart meters across Saudi Arabia, and a $1.4 billion investment in the development of state-of-the-art data centers, which support national strategies for digital infrastructure and energy efficiency.

By applying advanced technologies such as artificial intelligence, machine learning, system integration, and data analytics, we are enabling industries to optimize operations, enhance transparency, and improve service delivery. Our digital solutions are already being used by key national institutions, including the Ministry of Health, Saudi Electricity Company, Civil Defense, and the Ministry of Industry and Mineral Resources.



100+ Major digital projects

$1.4 billion investment in data centers

5 million+ smart meters deployed

PROJECTS

DIGITAL


SPARK Data Center

We are developing a new data center at King Salman Energy Park (SPARK) in the City of Dammam. The project aligns with Saudi Arabia's Vision 2030 and the government's efforts toward the sophistication of the kingdom's infrastructure to ensure utmost coverage of dense areas, support digital innovators, and attract foreign tech hyper-scaling companies.

According to global data center standards, we are constructing this flagship facility to deliver 30 MW. This will strengthen SPARK's digital infrastructure and ensure full support for local and international tech innovation companies. We are delivering this data center to provide flexible white spaces that empower companies with diverse design and configuration options tailored to each company's unique vision.

We ensure the data center's readiness to serve maximum-performance connection links and enable robust collocational infrastructure deployment with high accuracy. The data center will offer a comprehensive building management system and data center infrastructure management, ensuring strict control over environmental conditions and energy use.

30 MW
Built for global tech leaders

Dammam's Third Industrial City is strategically located south of Dhahran, along the Eastern Coastal Road leading to Salwa in Dammam, just 91 kilometers from King Fahd International Airport. Here, we are developing a top-tier data center that adheres to global standards and features benchmark specifications, contributing to the transformation of Saudi Arabia into a hub for innovation and digitalization.

With a capacity of 30 MW, the data center enhances the city's digital infrastructure, making it an attractive destination for promising innovation and tech investments. Additionally, we offer customizable white spaces that cater to the diverse needs of companies from various sectors, contributing to the diversification of the city's industrial and economic landscape.

The data center, slated to be fully operational by 2027, features an advanced building management system, an infrastructure management system, infrastructure optimization capabilities, and sophisticated connection and security systems. This meets the demands of hyperscale innovation players and aligns with the current keystone of the fourth industrial revolution in the Kingdom of Saudi Arabia.

30 MW
Backbone for
Industry 4.0.

DIGITAL

Al Fauzan Industrial City Data Center

Al Fauzan Industrial City is receiving wide attention as a key logistics and industrial hub in the Saudi Capital of Riyadh. Just a few kilometers away from Riyadh's 2nd Industrial City, which is considered the largest in the region, Al Fauzan is expected to have a fully operational data center by 2027, with the support of our expertise in construction.

We are developing Al Fauzan's data center to offer fully functional white spaces supported by a robust HVAC system, an advanced facility management system, and an infrastructure management system. These systems will ensure complete security and durability during peak demand intervals.

With a capacity of 30 MW, the data center will uplift Al Fauzan and Riyadh's status as key locations for digital transformation, significantly contributing to the sustainability and innovative industrial growth outlined in Saudi Vision 2030.

30 MW
High-resilience,
smart systems.

DIGITAL

We successfully delivered 5 million smart meters across the central and eastern regions of Saudi Arabia as part of a strategic national initiative led by the Saudi Electricity Company (SEC). Spanning over 13,300 locations, the project was completed in just 14 months, with installation rates reaching up to 30,000 meters per day.

Our scope encompassed full-cycle project execution, including logistics, procurement, training, safety, and on-site execution. This was supported by a network of 51 warehouses across a 1.2 million square kilometer service area. The project recorded over 9 million safe manhours without any major incidents.

To meet local content goals, we manufactured 40% of the innovative meter components in the Kingdom by acquiring ZIV, a specialized innovative metering firm. The meters feature advanced PLC and Narrowband IoT technologies and comply with TAQYEES and SEC standards, providing real-time energy data and seamless connectivity.

13,300
Locations

5 Million
Smart Meters

9 Million
Safe Hours

Only 14 Months
for project completion

Our clients

At Alfanar Projects, we are dedicated to cultivating strong and collaborative relationships with our clients to achieve a meaningful and sustainable impact in every project and initiative we undertake.

We place the client's needs and aspirations at the forefront of every engagement. We actively listen and seek to understand the unique challenges, goals, and vision of each client. We believe in customizing solutions to match the specific requirements of our clients. Through in-depth consultations and needs assessments, we co-create strategies that align with the client's mission and desired outcomes. This collaborative approach ensures that our projects are executed efficiently and effectively, meeting the highest standards of quality.

Rigorous monitoring and evaluation frameworks are also implemented to track progress and measure the impact of interventions. This data-driven approach ensures that outcomes are aligned with client objectives and that resources are maximized for optimal results.

A culture of continuous improvement remains a core commitment. Client feedback is actively sought in order to refine approaches, ensuring the effectiveness of future projects.

Our public and private partnerships

At Alfanar Projects, we take a collaborative and inclusive approach to working with public and private partners to drive positive social impact and sustainable change.

It is our belief that aligning with partners who share a common vision for social and environmental transformation leads to lasting results. Through open communication and mutual understanding, clear objectives and desired outcomes are defined together.

Prior to initiating any project, we conduct a thorough needs assessment in consultation with partners and stakeholders. This process ensures that our projects are tailored to address specific challenges and opportunities within the region we are about to support. We place a strong emphasis on building the capacities of local organizations and initiatives. We provide training, mentorship, and technical support to empower partners in effectively executing projects and achieving a sustainable impact.

Knowledge exchange and networking opportunities are also facilitated among partners, enabling them to learn from each other's experiences, share best practices, and collaborate on joint initiatives. By fostering strong partnerships through shared values, the goal is to catalyze enduring positive change in the regions supported.

Our commitment to excellence

Communities around the world are impacted by complex needs on a daily basis. From energy and water to healthcare and infrastructure, we are dedicated to supporting these communities by providing innovative and sustainable solutions. Thanks to a combination of advanced technologies, expertise, and passion, we are able to deliver projects that support and improve infrastructure, communities, and services.

We strive to make each of our projects better than the last and ensure a long-lasting, positive impact on the regions we support.

CERTIFICATES, LICENSES, AND COMMITMENT TO EXCELLENCE

ISO 9001

Demonstrates our commitment to quality management and continuous improvement across all services and processes.

ISO 45001:2018

Ensures we maintain the highest standards of occupational health and safety, safeguarding our teams and work environments.

ISO 14001:2015

Reinforces our dedication to sustainable practices through effective environmental management systems.

ISO 22301:2019 (BUSINESS CONTINUITY)

Highlights our readiness to navigate disruptions and maintain operational resilience under any circumstances.

ISO 27001:2017 (INFORMATION SECURITY)

Confirms our robust information security management framework, protecting critical data and digital assets.

ISO 20000-3:2019 (IT SERVICE MANAGEMENT)

Certifies our excellence in delivering consistent, high-value IT services that meet evolving customer and business needs.

ISO 17025

Recognizes the technical competence and precision of our calibration and testing laboratories.

SMART INDUSTRY READINESS INDEX

Alfanar Projects has recently been awarded the esteemed Smart Industry Readiness Index (SIRI) certification. The SIRI is the world's first independent digital maturity assessment for manufacturers, comprising a suite of frameworks and tools to help start, scale, and sustain manufacturing transformation journeys. The SIRI covers the 3 core elements of Industry 4.0: Process, Technology, and Organization.

MOWAAMAH CERTIFICATE FOR INCLUSIVITY

Alfanar Engineering Services, part of Alfanar Projects, was recently honored with the prestigious Mowaamah certificate. The Saudi Ministry of Labor and Social Development's (MLSD) Mowaamah program is a renowned recognition bestowed upon organizations that demonstrate exceptional dedication to fostering accessibility and inclusivity for individuals with special needs in the workplace.

For the world. With the world.™

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