

ESS-UNIPOWER

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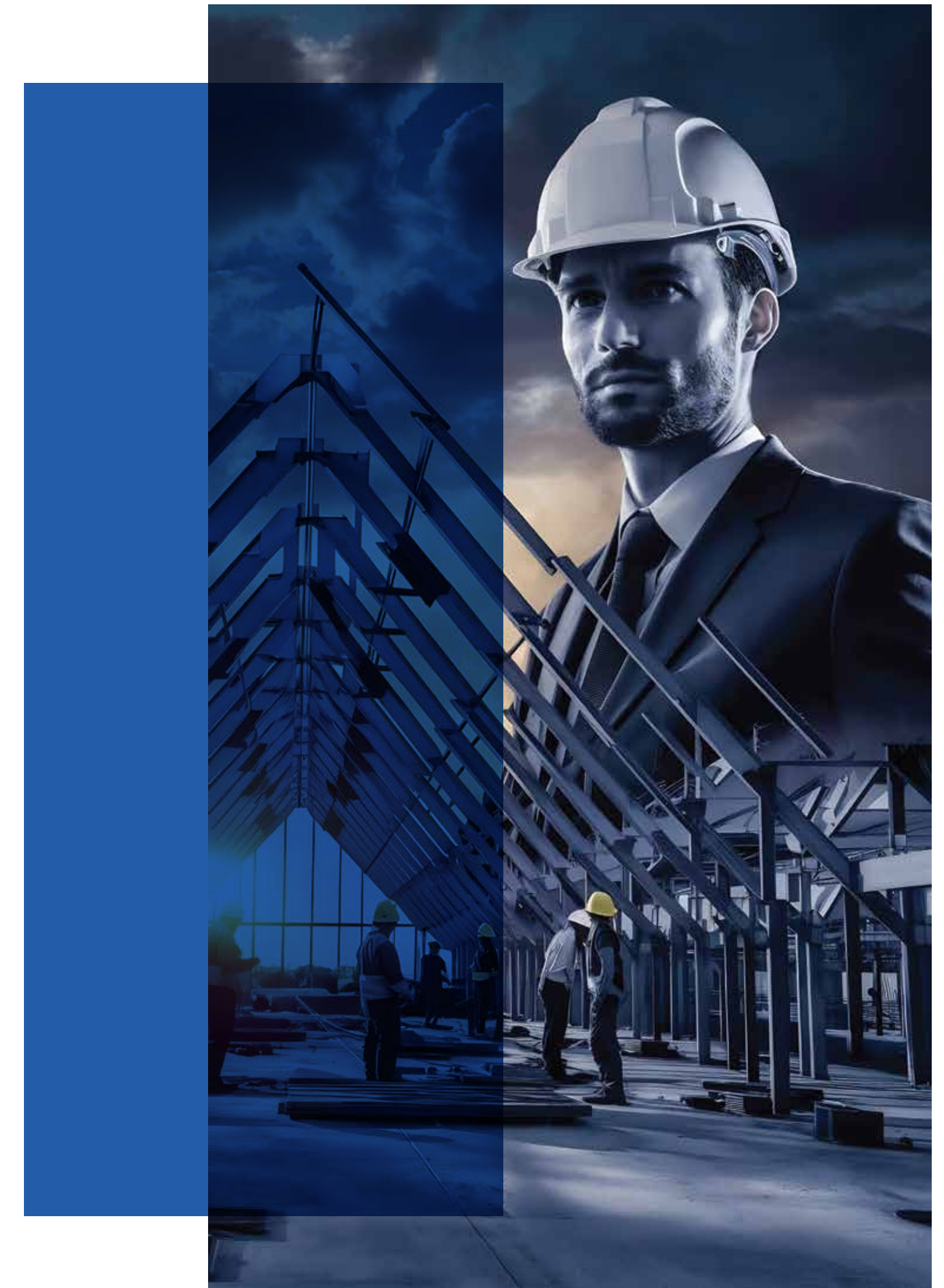
WHO WE ARE

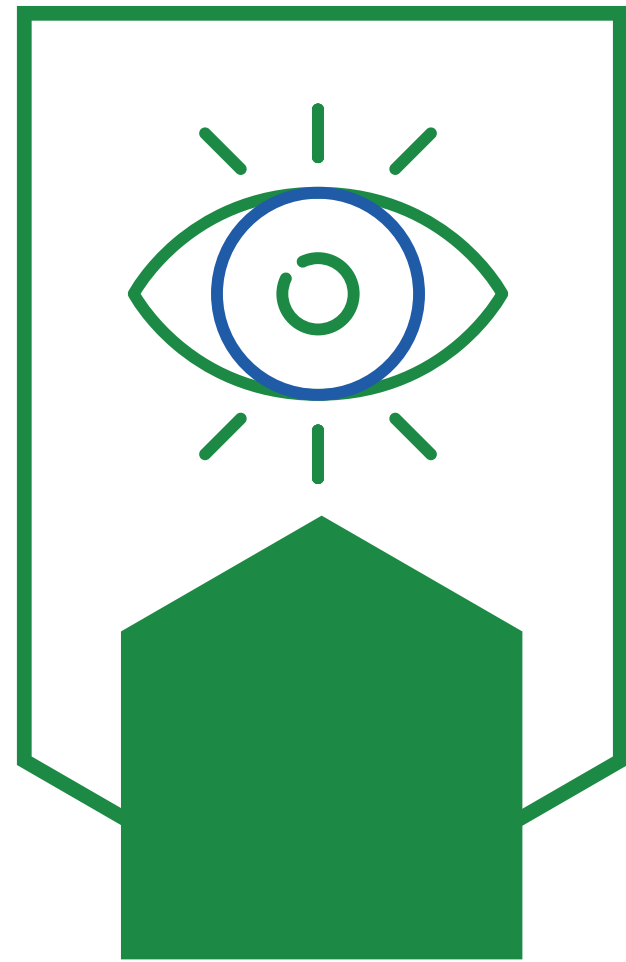
ESS–UNIPOWER is a Saudi-based strategic engineering alliance delivering integrated renewable energy, smart infrastructure, and mission-critical power solutions across the Kingdom of Saudi Arabia.

The company brings together the Saudi market strength of Fuad Abduljalil Al-Fadhli Group, established in 1973, and the specialized technical expertise of UniPower, founded in 1998, with a proven track record in critical power systems, data-centers, and telecommunications infrastructure.

ESS–UNIPOWER provides end-to-end solutions covering engineering, supply, installation, testing, commissioning, operation support, and life cycle services for advanced energy and power infrastructure.

Core Solutions Renewable Energy | Hybrid Power | Battery Energy Storage | Smart Solar Lighting | Smart Cities | Energy Optimization | Telecom Power | Prefabricated Data-Centers | UPS & Critical Power Systems With strong local presence, deep technical know-how, and diversified power solutions, ESS–UNIPOWER supports governmental, commercial, industrial, telecom, and infrastructure clients with reliable, efficient, scalable, and future-ready energy solutions.



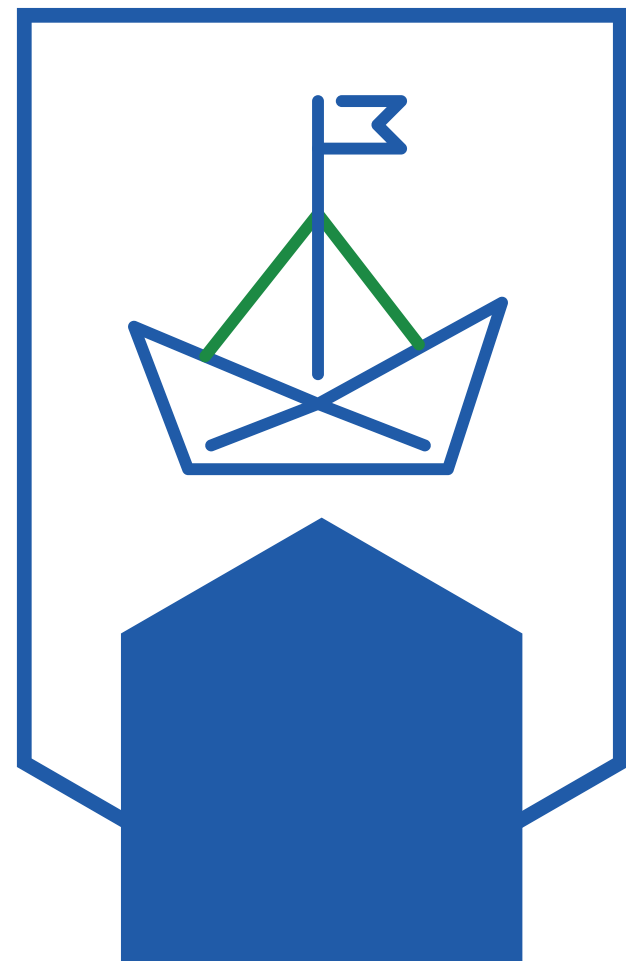


VISION

To become a trusted regional leader in renewable energy, smart infrastructure, critical power systems, and data center solutions across Saudi Arabia and the Gulf region.

We aim to set a new benchmark for engineering excellence and technological innovation by delivering reliable, sustainable, and future-ready solutions for highly sensitive and mission-critical infrastructure.

Through our integrated capabilities in solar energy, energy storage, smart lighting, telecom power, and critical power solutions, we support the transition toward a smarter, more sustainable, and resilient economy.



MISSION

To deliver reliable, integrated energy and smart infrastructure solutions that support critical facilities and business continuity across Saudi Arabia.

We provide end-to-end services, from site assessment and engineering design to supply, implementation, commissioning, and after-sales support.

Our mission is to help clients operate with higher reliability, smarter control, and long-term energy





OUR VALUES

The principles that guide our business and form the foundation of our commitment to delivering reliable, high-quality solutions

216.15

Sustainability

Adopting responsible solutions that support long-term development and preserve resources

Innovation

Developing advanced ideas and technologies that meet future needs

Integrity

Upholding transparency and credibility in all our operations and relationships

Excellence

Delivering the highest standards of quality through specialized engineering expertise and precise execution

Collaboration

We believe that teamwork is the foundation of success and sustainable results



WHY CHOOSE ESS-UNIPOWER?

Comprehensive One-Stop-Shop Solutions

We cover all infrastructure requirements, including renewable energy, critical power systems, smart infrastructure, and customized manufacturing under one roof

Regional Capability and Presence

We combine deep field execution capabilities within Saudi Arabia with extensive cross-regional expertise through operational platforms in Saudi Arabia, Egypt, and the UAE

Trusted Partnerships and Accreditations

Built upon a heritage dating back to 1973 and supported by international 55 exclusive distribution rights for more than products, while actively progressing toward Shamsi Program accreditations



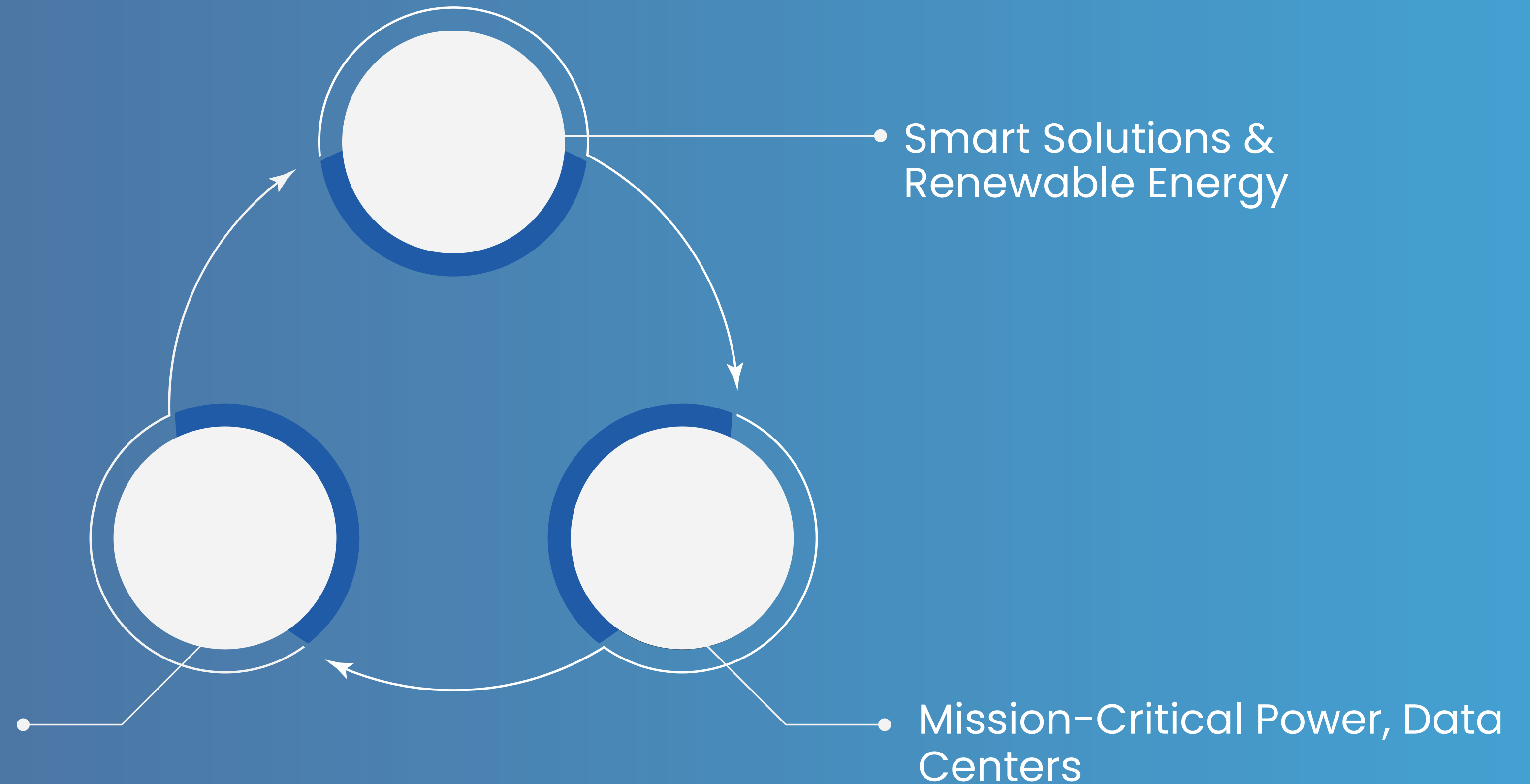
Our Partners



SOLUTIONS & SERVICES



Engineering Industries &
Customized Manufacturing



Smart & Renewable Energy



Engineering & Consultancy

Conducting detailed site surveys, advanced engineering design, and specialized technical consultancy services



Off-Grid & On-Grid Solar Farms

Designing and constructing large-scale solar power plants and farms tailored for urban developments and remote locations



Solar Pumping Stations

Comprehensive solutions for water pumping and agricultural and industrial systems powered entirely by solar energy

Solar & Smart Lighting

Supply and installation of energy-efficient smart lighting systems and solar-powered lighting poles integrated with advanced control systems



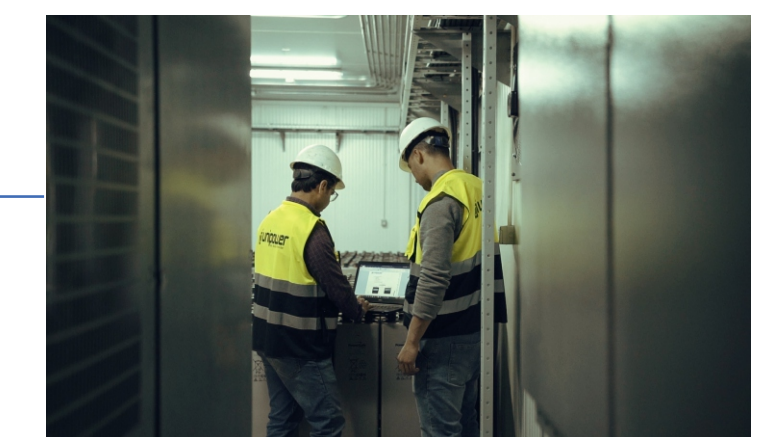
Commissioning & Technical Support

Supervising commissioning activities, providing continuous technical support, and training users and operational teams



After-Sales Services

Comprehensive preventive maintenance contracts and on-demand technical support for emergency requirements



Engineering Industries & Customized Manufacturing



Manufacturing of Prefabricated Data Center Containers in accordance with international standards

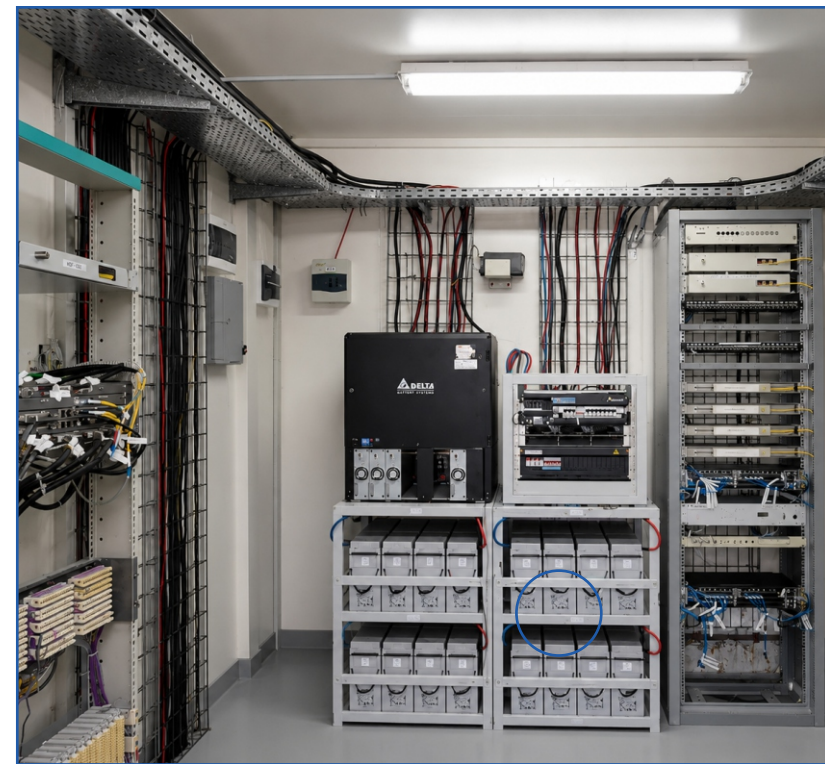


Manufacturing of Indoor & Outdoor Enclosures for the protection of electrical and electronic systems



Manufacturing of customized steel structures for solar energy systems and solar mounting tables

Critical Power & Smart Infrastructure Solutions



Telecom Power Systems

Supply and operation of advanced telecommunications power systems, including Rectifiers, Controllers, Inverters, Solar Chargers, and Converters

Data Centers

Integrated infrastructure solutions for data centers and mission-critical environments

Backup Power Systems

Electrical generators and Uninterruptible Power Supply (UPS) systems

Building Management Systems (BMS)

Advanced energy storage systems integrated with building management and automation solutions



Our Projects

Al-Faw Historical Village Solar Power System Project

01

- (Client): MOC
- (Location): AL-FAW Historical Village - Wadi Aldwaser - KSA

Project Overview

The project involved the installation of a complete solar power system with a capacity of 60 kW at Al Faw Historical Village under the Saudi Heritage Commission, affiliated with the Ministry of Culture; The site is registered as a UNESCO World Heritage Site.

The works included the full design, supply, installation, and commissioning of the system to provide a sustainable energy source while preserving the historical and cultural integrity of the site.

Completion Year :2026



02

Al Taqaddum Medical Factory – Sudair Industrial City – MODON

- (Client): Al Taqaddum Medical Factory
- (Location): Sudair Industrial City (MODON) – KSA

Project Overview

Supply and installation of a complete 200 kW solar power system at Al Taqaddum Medical Factory located in Sudair Industrial City under the Saudi Authority for Industrial Cities and Technology Zones (MODON).

The works included full design, supply, installation, and commissioning of the system to support the factory's electrical demand and enhance operational efficiency through renewable energy solutions.

Completion Year :2026



03

Solar Lighting Poles Project – Al Zulfi

- (Client): MODON
- (Location): Al Zulfi (MODON) – KSA

Project Overview

Supply and installation of solar-powered lighting poles at the site, including concrete foundations, pole installation, and preparation of the electrical and solar power systems in accordance with approved quality and safety standards and project requirements.

Completion Year ٢٠٢٤





04

Solar Lighting Supply & Installation Project – Qassim



- (Client): MODON
- (Location): (MODON) – Qassim / Buraidah – KSA

Project Overview

The project included the supply and installation of solar-powered lighting systems for the authority at the First Industrial City, Second Industrial City, and MODON Oasis in Buraidah, Qassim Region.

The works included the construction of decorative concrete foundations featuring the MODON logo, along with the supply and installation of solar lighting poles and full system setup in accordance with approved technical specifications and quality standards.

Completion Year :2026

05

- (Client): MODON
- (Location): (MODON) – Dammam – KSA

Project Overview

The project included the supply of 128 solar-powered lighting fixtures for large advertising billboards located at the entrances of industrial cities in Dammam.

The works included providing and preparing lighting fixtures according to the required specifications to ensure high operational efficiency and proper illumination quality in line with project requirements and approved standards.

Completion Year :2026



06

Solar Lighting Supply & Installation Project



■ (Client): ALDREES

■ (Location): Al-Rwidhah – Makkah Rd. – KSA

Project Overview

The project included the supply and installation of solar-powered lighting systems for Aldrees Company.

The works covered the supply and installation of solar lighting poles along with concrete foundations, in addition to the complete setup and installation of the systems in accordance with approved technical specifications and quality standards.

Completion Year :2024



07

Smart Remote Public Toilets – 12 Locations



■ (Client): NEOM

■ (Location): 12 locations across NEOM (remote sites) – KSA

Project Overview

Design & Build delivery of twelve smart public rest-room facilities across multiple NEOM zones. Each unit is solar-powered and equipped with IoT sensors and controllers that stream operational data to a centralized dashboard for real-time monitoring and remote control.

A big-data layer aggregates insights for alerts, KPIs, preventive maintenance, and service optimization across all 12 facilities

Completion Year : 2021



08

Solar-Powered Restroom Units — NEOM (2019) | 3 Sites

- (Client): NEOM
- (Location): 3 locations across NEOM (remote sites) – KSA



Project Overview

Delivered three solar-powered restroom units across remote NEOM locations (2019). Scope included site installation and commissioning, exterior access works (ramps/handrails), and integrated lighting to enable reliable day-and-night operation in harsh desert conditions.

A practical, sustainable solution to support visitors and site teams.

Completion Year : 2019



09

Google sub-marine cable Med2Red

■ (Client): Telecom Egypt

■ (Location): Egypt

Project Overview

Supply, installation, and commissioning of a complete infrastructure to support 50 IT racks housed within a prefabricated datacenter building.

The facility will be powered through a hybrid energy system combining a solar photovoltaic (PV) system and diesel generator backup, ensuring reliable and continuous power availability.

The scope includes the implementation of a comprehensive cooling system, firefighting and fire detection systems, battery energy storage system, and distribution panels. In addition, the project incorporates various low-current systems required for secure and efficient data center operations.

All required civil works are included within the project scope to deliver a fully functional and reliable facility ready for IT operations.

Completion Year: 2026





10

Google sub-marine cable 2 Africa

■ (Client): Telecom Egypt

■ (Location): Egypt

Project Overview

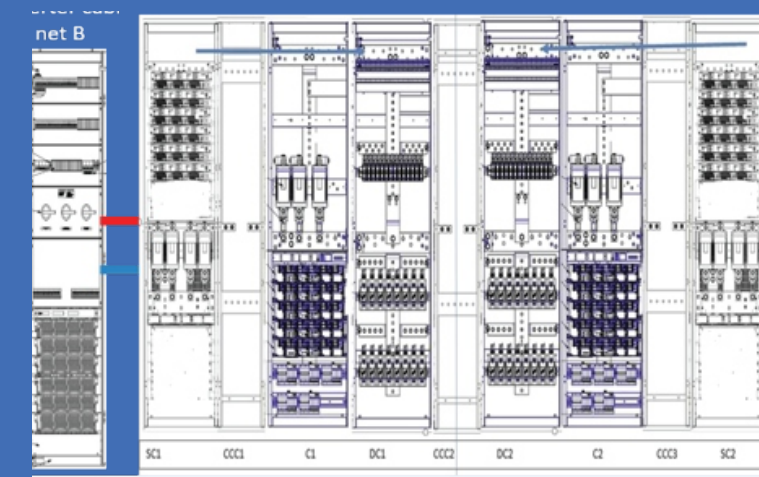
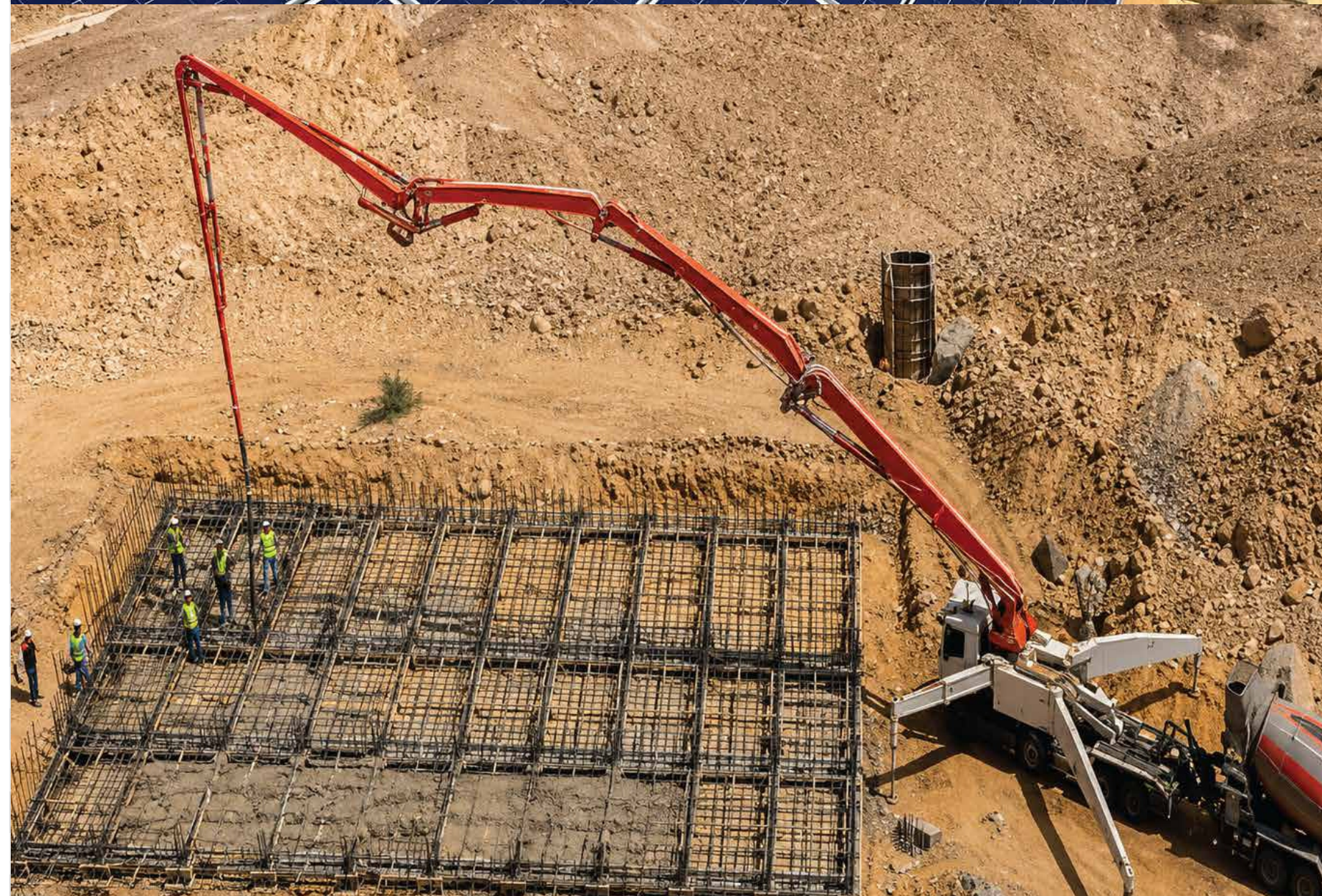
Delivering a cutting-edge hybrid power solutions designed to ensure seamless, reliable, and sustainable energy for critical data center operations.

This turnkey solution integrates solar panels, Generators and high-capacity battery storage systems.

The system leverages intelligent energy management, automatically controlling the startup and operation of generators, PV panels, and batteries to maintain uninterrupted power supply under all conditions.

From design and engineering to installation, testing, and commissioning, every element is tailored for resilience, scalability, and supports green, sustainable operations.

Completion Year: 2026



11

Google sub-marine cable Med2Red

■ (Client): Telecom Egypt

■ (Location): Egypt

Project Overview

Supply, installation, and commissioning of a complete infrastructure to support 50 IT racks housed within a prefabricated data center building. The facility will be powered through a hybrid energy system combining a solar photovoltaic (PV) system and diesel generator backup, ensuring reliable and continuous power availability.

The scope includes the implementation of a comprehensive cooling system, firefighting and fire detection systems, battery energy storage system, and distribution panels.

Completion Year : 2026



12

Golden path sub-marine cable

■ (Client): Telecom Egypt

■ (Location): Egypt

Project Overview

Fast-track turnkey delivery of a multi-sites data center infrastructure, including complete civil works and prefabricated data center containers, along with full design, engineering, supply, installation of DC and AC power systems as well as overall project management and integration with cooling, fire protection, and ELV systems.

The project was successfully executed within a compressed timeline, delivering fully operational and reliable data center facilities.

Completion Year : 2024



13

Data Canter Project

- Project Name: TE Facebook Data center
- (Location): Egypt



Design, supply, and installation of a high-capacity power infrastructure system supporting one of the largest and most mission-critical data center facilities in Egypt. The project included a dual-source rectifier system, battery energy storage, and complete AC and DC power distribution systems, including all associated cabling and

Completion Year: 2018



14

Data Canter Project

- Project Name: TE NN Data center
- (Location): Egypt



Project Overview

Turnkey delivery of a strategic data-center power infrastructure in the Egyptian New Administrative Capital, overcoming complex engineering challenges through advanced and optimized design solutions.

The scope included a dual-source rectifier system, battery energy storage, and complete AC/DC power distribution, ensuring high availability and uninterrupted operation for mission-critical loads.

Completion Year: 2020

15

Facility L maintenance Project

- **Project Name:** Orange Core Sites L1Maintenance
- **(Client):** Orange
- **(Location):** Egypt

Project Overview

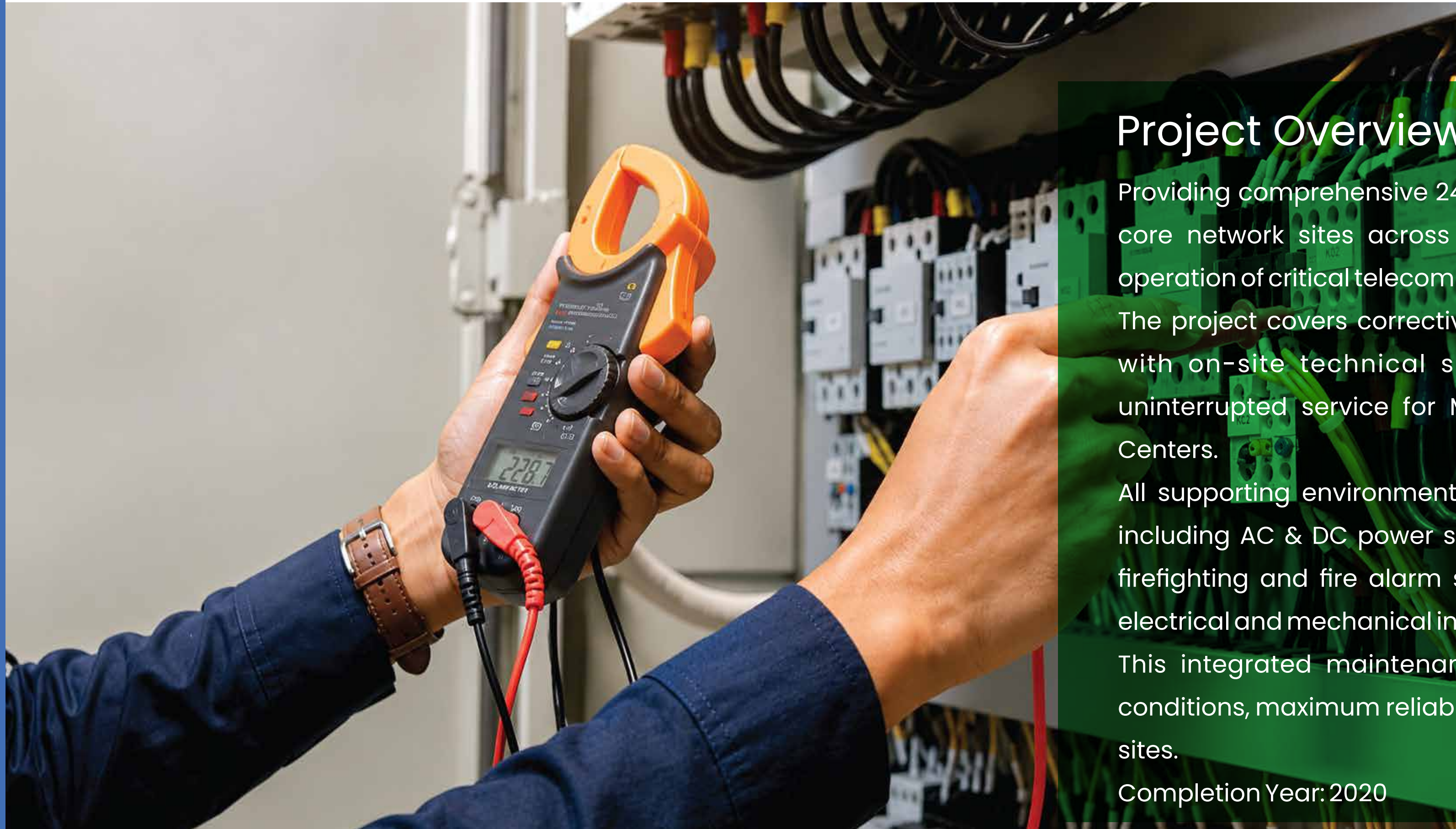
Providing comprehensive 24/7 maintenance services for multiple Orange core network sites across Cairo and Alexandria, ensuring continuous operation of critical telecom infrastructure with high availability standards.

The project covers corrective, preventive, and emergency maintenance, with on-site technical support and rapid response to maintain uninterrupted service for Mobile Switching Centers (MSCs) and Data Centers.

All supporting environmental and facility systems are fully maintained, including AC & DC power systems, HVAC and precision air conditioning, firefighting and fire alarm systems, generator systems, and associated electrical and mechanical infrastructure.

This integrated maintenance approach ensures optimal operational conditions, maximum reliability, and seamless service continuity across all sites.

Completion Year: 2020



Power system maintenance Project

- **Project Name:** Orange Core Sites power system Maintenance
- **(Client):** Orange
- **(Location):** Egypt

Project Overview

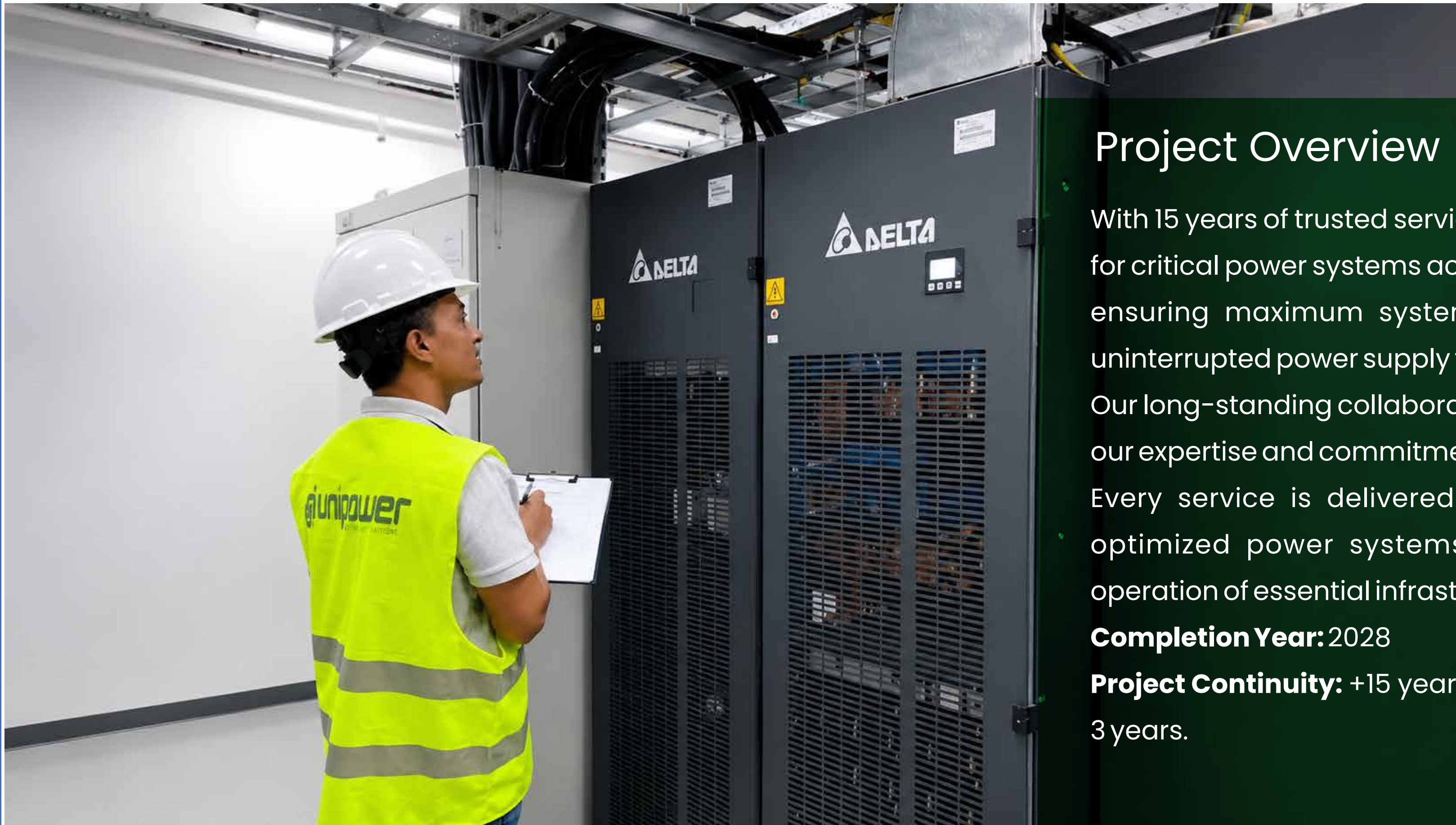
With 15 years of trusted service, we provide comprehensive maintenance for critical power systems across multiple telecom and data-center sites, ensuring maximum system availability, operational reliability, and uninterrupted power supply for mission-critical loads.

Our long-standing collaboration with Orange team reflects confidence in our expertise and commitment to reliable operations.

Every service is delivered to maintain resilient, efficient, and fully optimized power systems, supporting seamless and continuous operation of essential infrastructure.

Completion Year: 2028

Project Continuity: +15 years of successive contracts, re-awarded every 3 years.





17

Solar power System maintenance Project

- **Project Name:** BSS Solar systems Maintenance
- **(Client):** Orange
- **(Location):** Egypt

Project Overview

Providing comprehensive maintenance and technical support for multiple Orange telecom solar power sites, ensuring reliable operation, optimized performance, and continuous availability of the solar energy systems.

Our services include review and verification of system design and configuration, controller log analysis, preventive maintenance for PV systems and associated equipment, and cleaning of solar panels to maintain peak generation efficiency.

The project also covers design review, troubleshooting, inspection of solar power systems, and performance assessment of the entire solar system.

All activities are documented in detailed maintenance reports with findings and technical recommendations, ensuring that the solar power systems remain resilient, efficient, and fully optimized.

Completion Year: 2020



18

Off-Grid solar system Project

- **Project Name:** Remote CDMA Network
- **(Client):** A.O.I Electronic Factory
- **(Location):** Egypt

Project Overview

Delivering turnkey off-grid solar power systems across multiple telecom sites, designed to provide reliable, fully autonomous operation even in the most remote and challenging locations.

The solution combines advanced solar power technology, battery storage, and inverter systems with state-of-the-art cooling solutions to ensure optimal performance and longevity of all components, regardless of environmental conditions.

Each system is carefully integrated, tested, and commissioned, ensuring continuous power supply, operational efficiency, and resilient performance for critical telecom infrastructure.

Completion Year: 2024

19

Advanced BMS for Telecom and Data Center

- **Project Name:** Advanced BMS System for Auto Central
- **(Client):** Telecom Egypt
- **(Location):** Egypt

Project Overview

Implementation of a state-of-the-art Building Management System (BMS) for one of the most critical and long-standing telecom and data-center facilities of Telecom Egypt, enabling centralized monitoring and intelligent management of essential infrastructure systems.

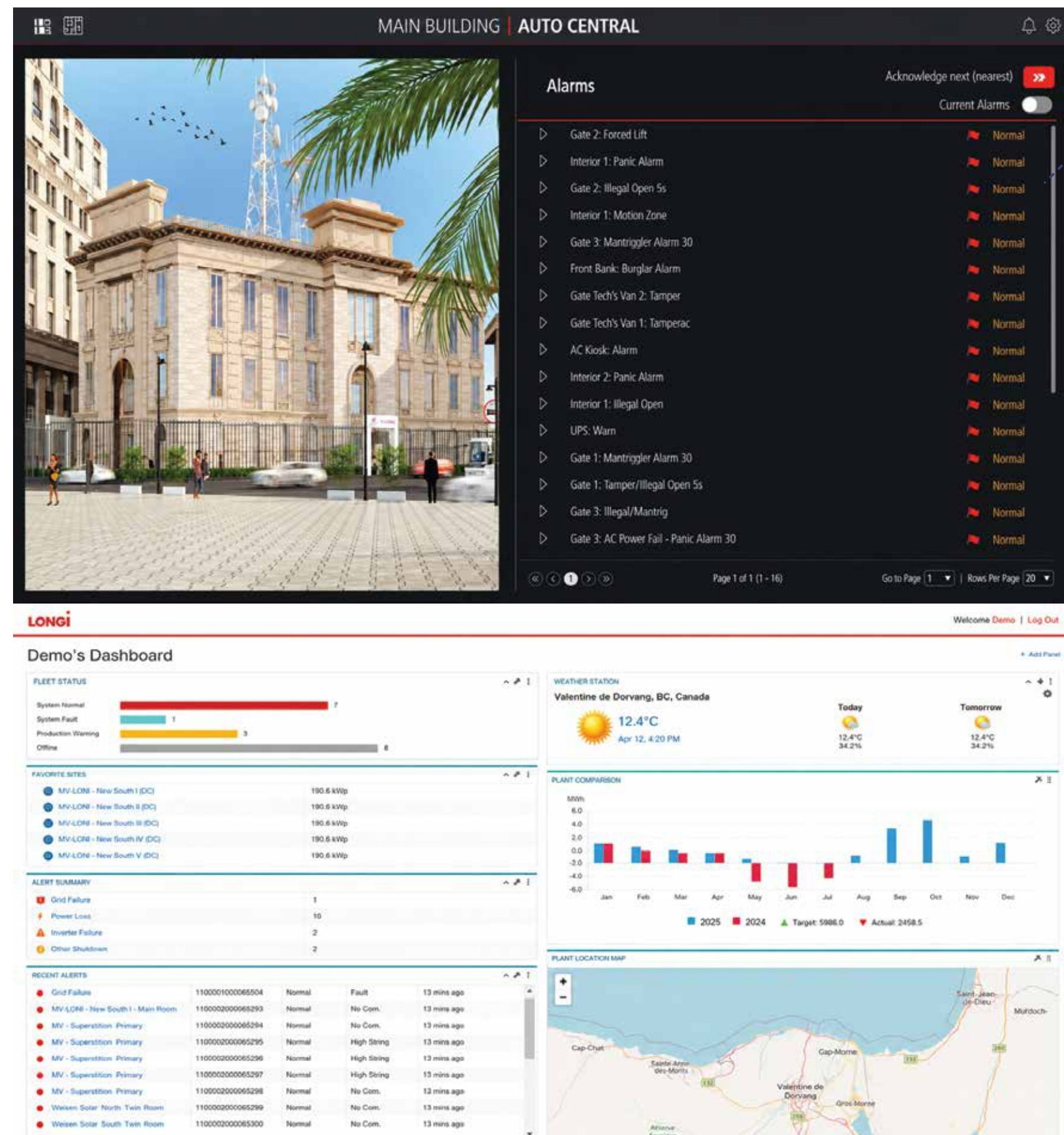
This project demonstrates strong customer confidence in our technical expertise and capability.

The system provides centralized monitoring of power, cooling, and environmental systems, with alarm management, event logging, and real-time diagnostics, all visualized through intuitive dashboards and reporting tools.

The project included design, integration with complex and legacy controllers, system testing, commissioning, and ongoing operational support, ensuring reliable, efficient, and optimized management of mission-critical facilities.

By combining advanced technology with operational insight, this BMS enhances infrastructure resilience, energy efficiency, and continuous performance in one of the country's most demanding environments.

Completion Year: 2025





21

Manufacturing of Outdoor Cabinets Project

- **Project Name:** Vodafone Customized Enclosure for power cabinet
- **(Client):** Vodafone
- **(Location):** Egypt

Project Overview

Manufacturing and supply of customized outdoor telecom cabinets designed to host critical telecom and power equipment in harsh outdoor environments, ensuring reliable operation and effective thermal management.

The cabinets feature integrated DC air conditioning for temperature control, mechanical preparation for equipment installation, and secure, weatherproof enclosures suitable for outdoor deployment.

All units undergo factory testing and quality assurance to guarantee durability, performance, and reliability in challenging conditions.

Completion Year: 2024–2025



22

Manufacturing of Outdoor Cabinets Project

- Project Name: Orange TX- Cabinet
- (Client): Orange
- (Location): Egypt

Project Overview

Manufacturing and supply of customized outdoor telecom cabinets designed to host critical telecom and power equipment in harsh outdoor environments, ensuring reliable operation and effective thermal management.

The cabinets feature DC fans and filters for temperature control, mechanical preparation for equipment installation, and weatherproof, secure enclosures suitable for outdoor deployment. Each unit undergoes factory testing and quality assurance to guarantee durability, performance, and long-term reliability in demanding conditions.

Completion Years: 2023–2024



23

Supply and Install of Outdoor Cabinets Project

- **Project Name:** Orange Power cabinets
- **(Client):** Orange
- **(Location):** Egypt

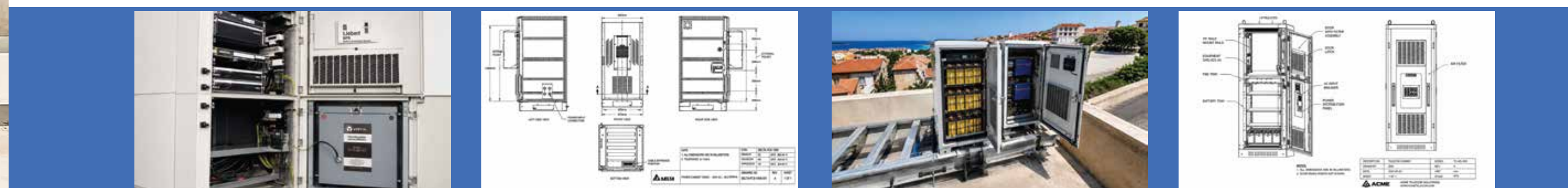
Project Overview

Supply and installation of outdoor telecom cabinets designed to host power systems, load equipment, and battery banks, ensuring reliable operation through integrated cooling solutions.

The cabinets feature advanced cooling options, including DC air conditioning, thermoelectric cooling, and ventilation systems, alongside weatherproof and secure enclosures for outdoor deployment.

The project includes installation, commissioning, testing, and site acceptance, providing durable, high-performance, and fully operational solutions for telecom infrastructure in challenging environments.

Completion Year: 2023–2024





24

long-standing collaboration with Orange

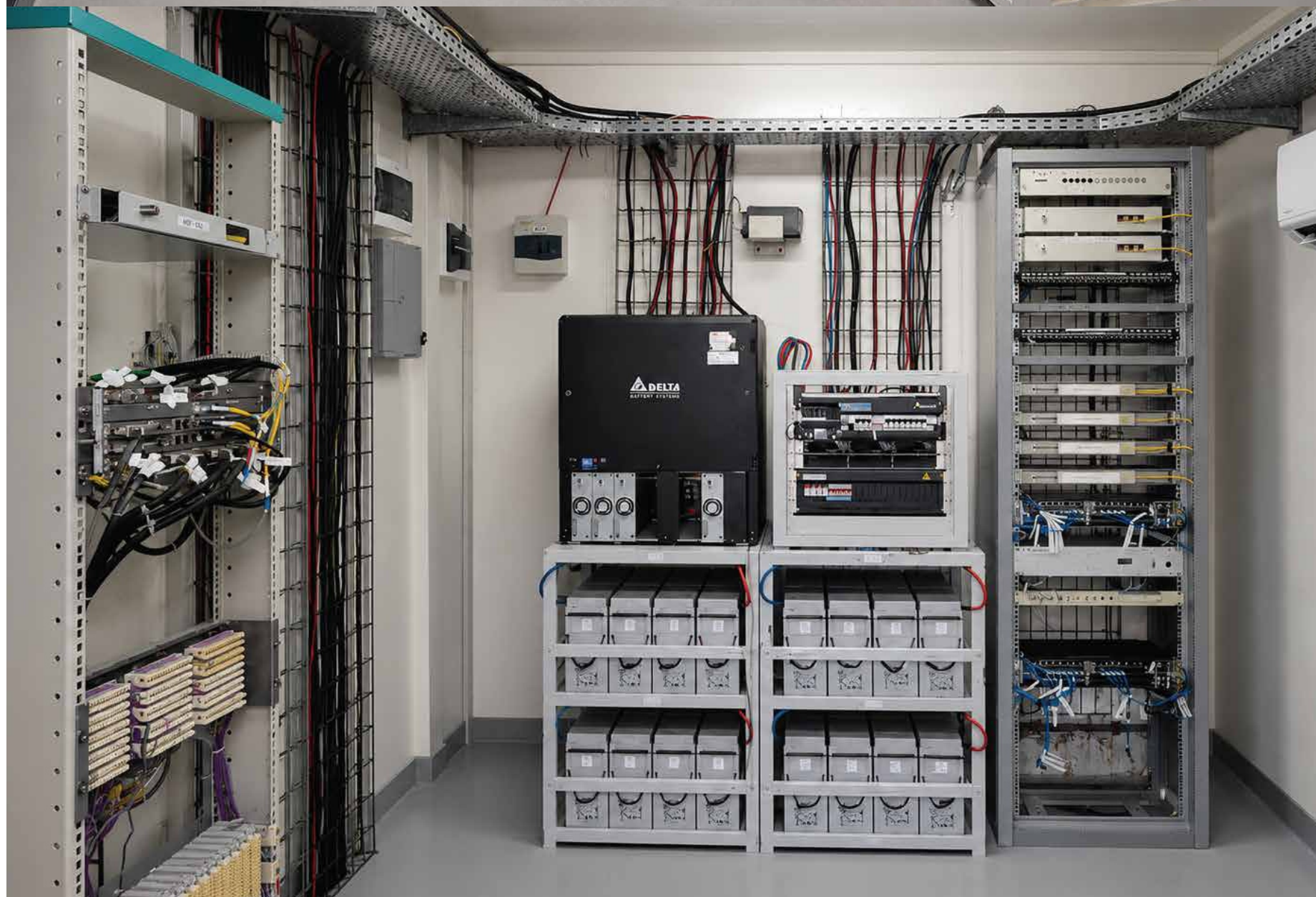
- Project Name: MOBINIL/Orange
- (Location): Egypt
- (Duration): +20 years

Project Overview

Through a long-standing collaboration, we have supported Orange Egypt's telecom and data-center infrastructure with comprehensive supply, deployment, and maintenance of critical power and energy systems across thousands of sites. Our solutions ensure continuous operation, high reliability, and optimized performance for mission-critical loads.

Key Contribution:

- Supply and installation of telecom battery systems, including 2V, 12V, VRLA, OPzV, OPzS, SBS, solar, and lithium batteries.
- Deployment of low and high-capacity rectifier systems.
- Supply and commissioning of UPS systems.
- Outdoor power systems and cabinets.
- Technical support for thousands of telecom sites.
- Battery testing and health assessment for thousands of battery banks.
- Execution of critical power operations, including live load transfers at mission-critical sites and data-centers.
- Live battery replacement.



High-Capacity DC power system Project

- **Project Name:** Project 2-RDH
- **(Client):** RAYA
- **(Location):** Egypt

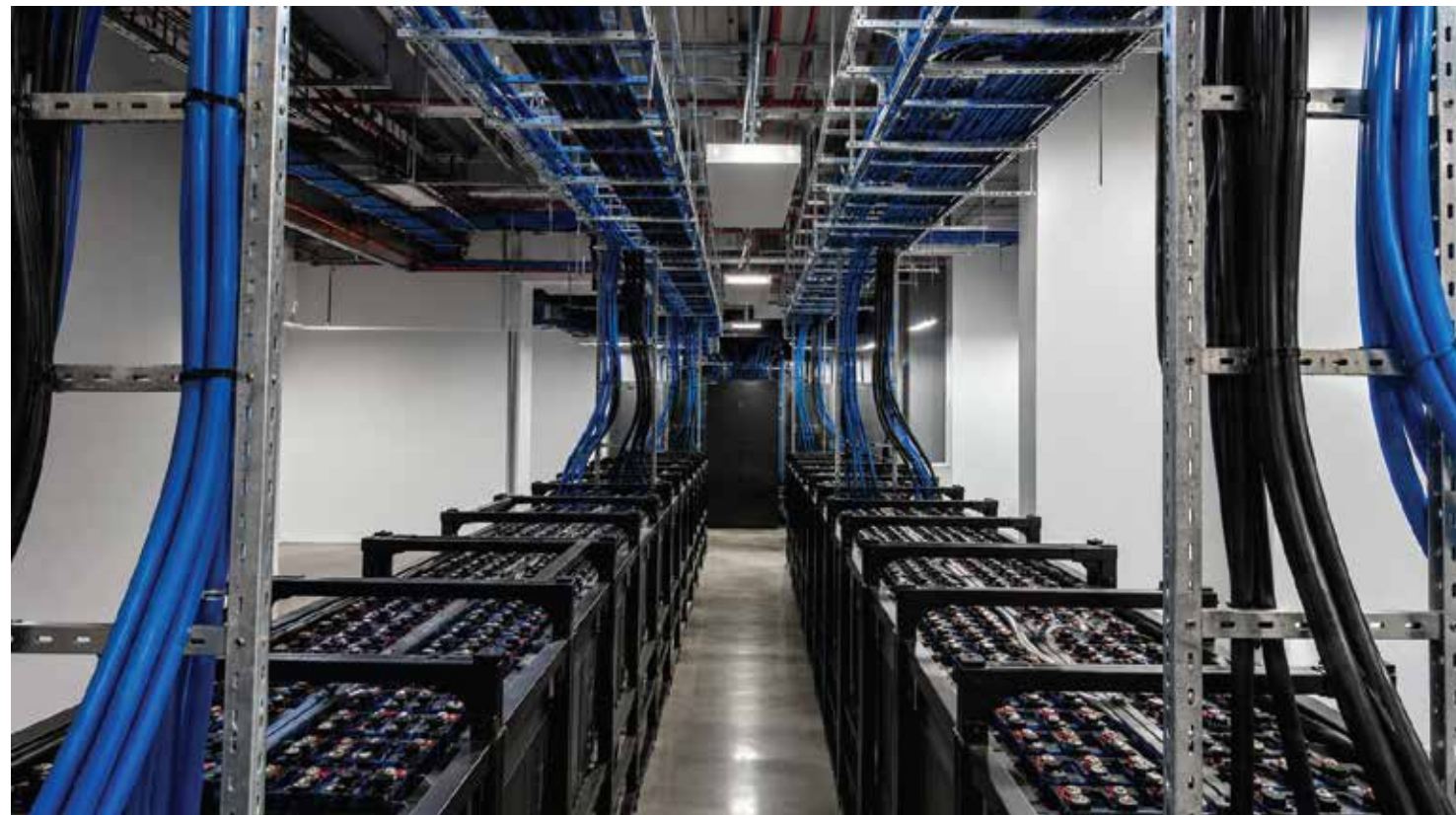
Project Overview

Supply and installation of a high-capacity dual-source DC power system designed to support critical data-center loads with maximum reliability and full redundancy.

The project includes the deployment of dual rectifier systems for redundant DC power supply, installation of high-capacity battery banks, and integration of DC distribution systems to ensure uninterrupted support for critical loads. Complete system installation, testing, and commissioning guarantee continuous power availability for mission-critical data center operations.

This turnkey solution delivers resilient, efficient, and fully optimized DC power infrastructure, ensuring the highest levels of uptime and operational reliability.

Completion Year: 2025



26

High-Capacity DC power system Project

- **Project Name:** Ismailia Central Project
- **(Client):** Sterling and Wilson
- **(Location):** Egypt



Project Overview

Supply and installation of a high-capacity dual-source power system engineered to support critical data-center loads with maximum reliability, redundancy, and operational continuity, overcoming significant technical and site-specific challenges.

The project includes dual rectifier systems for redundant DC power supply, dual inverter systems for AC load support, high-capacity battery banks, and DC distribution systems to ensure seamless power delivery to critical loads.

Our R&D team developed innovative solutions to address complex installation, integration, and performance challenges, ensuring all systems operate efficiently.

Complete installation, testing, and commissioning guarantee continuous availability and optimal performance for mission-critical data-center operations.

This turnkey solution delivers a robust, resilient, and fully integrated power infrastructure, ensuring high uptime and reliable operation even in the most demanding environments.

Completion Year: 2025

27

Oil & Gas Power Systems Project

- **Project Name:** Petrojet | Khalda Petroleum | GASCO | PETROPEL
- **(Client):** Pertojet
- **(Location):** Egypt

Project Overview

Supply and deployment of reliable power and energy systems to support critical oil and gas operations, including remote and industrial facilities where continuous power availability is essential.

The projects includes supply and installation of Nickel-Cadmium battery systems, deployment of solar power solutions for remote sites, and installation of industrial rectifiers and backup power systems.

All systems are fully integrated, tested, and commissioned, with ongoing technical support to ensure resilient and uninterrupted operations for mission-critical energy infrastructure.





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