

# Company Profile

**B** L A C K B O X  
KNOWLEDGE WITHIN

MARCH, 2026





## Who We Are

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### **Knowledge Within.**

BLACKBOX is an elite, multi-disciplinary engineering intelligence unit designed to solve the world's most complex infrastructure challenges. We bridge the gap between ambitious design and absolute certainty by housing every critical specialty—from Acoustics and Pipeline Stress Analysis to LEED Commissioning, FLS, and Critical Infrastructure—within a single, unified partnership.



### **Proactive Intelligence**

We don't just provide services; we provide foresight. By putting ourselves in our clients' shoes, we anticipate friction points and solve challenges before they manifest. Our value lies in this "Black Box" approach: a silent, powerful engine that takes in complexity and delivers a perfect, engineered result.

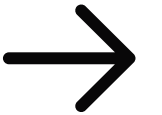
### **Integrated. Evolved. Everywhere.**

BLACKBOX is a borderless organization. Operating through a sophisticated global network, we maintain a 24/7 presence across the United Kingdom, France, UAE, Saudi Arabia, Egypt, Libya, Lebanon, and Qatar. Our growth is defined entirely by our reputation. We do not market; we deliver. When you partner with BLACKBOX, you are securing a legacy of precision and the "Knowledge Within."

# About Us

NUMBER ONE  
**1**  
Choice

To be the most trusted partner for complex projects, recognized for our technical integrity and our commitment to solving challenges before they arise.



# Our Vision



# OurMission

Towards a Smarter Future

## Mission 1

To provide total engineering certainty through unwavering commitment and availability.

## Mission 2

We exist to define our clients' needs and predict challenges before they arise, integrating every technical specialty under one roof so our partners never have to look elsewhere.

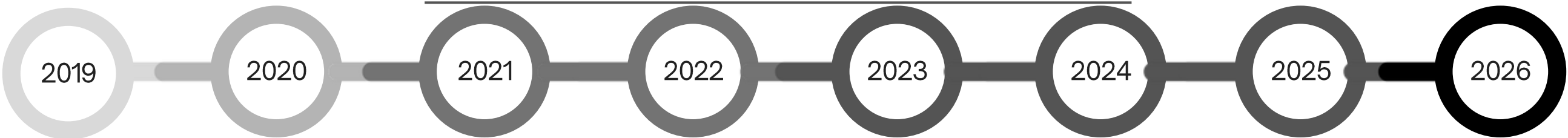
## Mission 3

Working around the clock to meet every deadline, we ensure that complex projects are delivered with precision, respect for industry standards, and absolute reliability.



# Our Journey

Our trails around the world



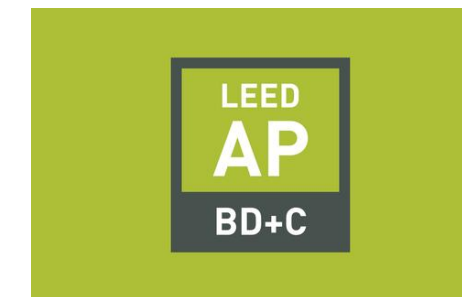
Our track record spans seven years of delivering specialized engineering solutions for prestigious clients across the MENA region. With a portfolio encompassing dozens of projects in nine countries across Europe, Africa, and Asia—including the UK, France, Egypt, Libya, Nigeria, Saudi Arabia, the UAE, Oman and Qatar—BLACKBOX has established a legacy of technical excellence on a global scale.



# Meet Our Team →

BLACKBOX team possesses deep-seated expertise across all disciplines. Our highly qualified senior staff have +12 years of experience working in mega projects with the top ranked multinational firms in the consultancy and construction field.

Our staff members are certified by international accreditation parties like ASHRAE, USGBC, NFPA, Autodesk, AEE, TUV, ISA, BICSI, UPTIME Institute.



# KNOWLEDGE WITHIN!

The following sections will provide a brief about the available services and sample of the projects that we have participated in.



# Our Service



BLACKBOX provides comprehensive MEPF (Mechanical, Electrical, Plumbing, and Firefighting Engineering) design service to create energy-efficient and sustainable system designs in both CAD & BIM formats . Our team of skilled professionals excels in both new and renovated structures, blending cutting-edge engineering with practical expertise and drafting capabilities.

## MEP Design

- Mechanical Systems
- Electrical Systems
- ELV Systems
- Security Systems
- Lighting Control Systems
- Waste Management Systems
- Material Handling and Logistics

## Instrumentation and Control

- Wet Utility SCADA Systems
- Chilled Water SCADA Systems
- Power SCADA Systems
- Distributed Control System (DCS)
- Building Management System (BMS)
- Environmental Control System (ECS)
- Tunnel Management System (TMS)

## Sustainability

- Life Cycle Assessment
- Energy Modelling
- Micro climatic analysis
- Indoor thermal comfort and air quality
- Weather analysis
- Outdoor Thermal comfort
- Daylight studies



# Our Service



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## Infrastructure Design

- Pump Stations and Piping Networks
- Chiller Plants and Chilled Water Networks
- Water Treatment Plants
- Medium and Low Voltage Networks
- Telecom and Fiber Optic Networks
- Street and Landscape Lighting
- Pipeline Stress Analysis

## CFD

The evacuation modeling is performed to determine the required safe egress time (RSET) in complex buildings and then comparing it with the available safe egress time (ASET) which is the output of the smoke CFD analysis for different fire scenarios

## Acoustics and Vibration Control

- Room acoustics
- Sound Insulation between rooms
- Façade Sound Insulation
- Traffic Noise modeling
- Auditorium, theater and Opera House
- Vibration Control for Mechanical Equipment



# → Our Projects

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## What We've Done

We have participated in multiple projects in the MENA region with different scope in each project, we are listing some of the projects and other projects are available upon request.

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### Saudi Boulevard Foundation

Year: 2025

Location: KSA

Scope Summary– Calculate the cooling load for the entire District 3 based on an efficient design in accordance with ASHRAE 90.1. Evaluate the feasibility of thermal energy storage and determine the optimal storage capacity based on the project's operational profile. The simulation includes all assets within District 3, including future expansions. Based on the analysis, the district cooling demand has been established, along with the corresponding thermal storage requirements.



# Our Projects

## L'Oreal

Year: 2025

Location: New Cairo

Scope Summary: The scope was handling the LEED Fundamental and Enhanced Commissioning of L'Oreal new head office with CBRE as PMC consultant, SCAS as main contractor, and EMDEG as MEP consultant. The project was the first project in the middle east to be awarded LEED: ID+C Platinum Certification.



# Our Projects

## SIEMENS ENERGY

Year: 2026

Location: New Cairo

Scope Summary: The scope was handling the LEED Fundamental Commissioning of Siemens Energy new head office, with CBRE as PMC consultant, SCAS as main contractor, and EMDEG as MEP consultant, currently the project is under LEED Review.



# Our Projects

## AAIB

Year: 2026

Location: New Cairo

Scope Summary: The scope was handling the LEED Fundamental and Enhanced Commissioning of AAIB new head office in One Ninety with Hill international as PMC consultant, HAC as main contractor and SCG as site supervision consultant. The project is currently under the final compilation after finalizing all the testing and ready for LEED review.



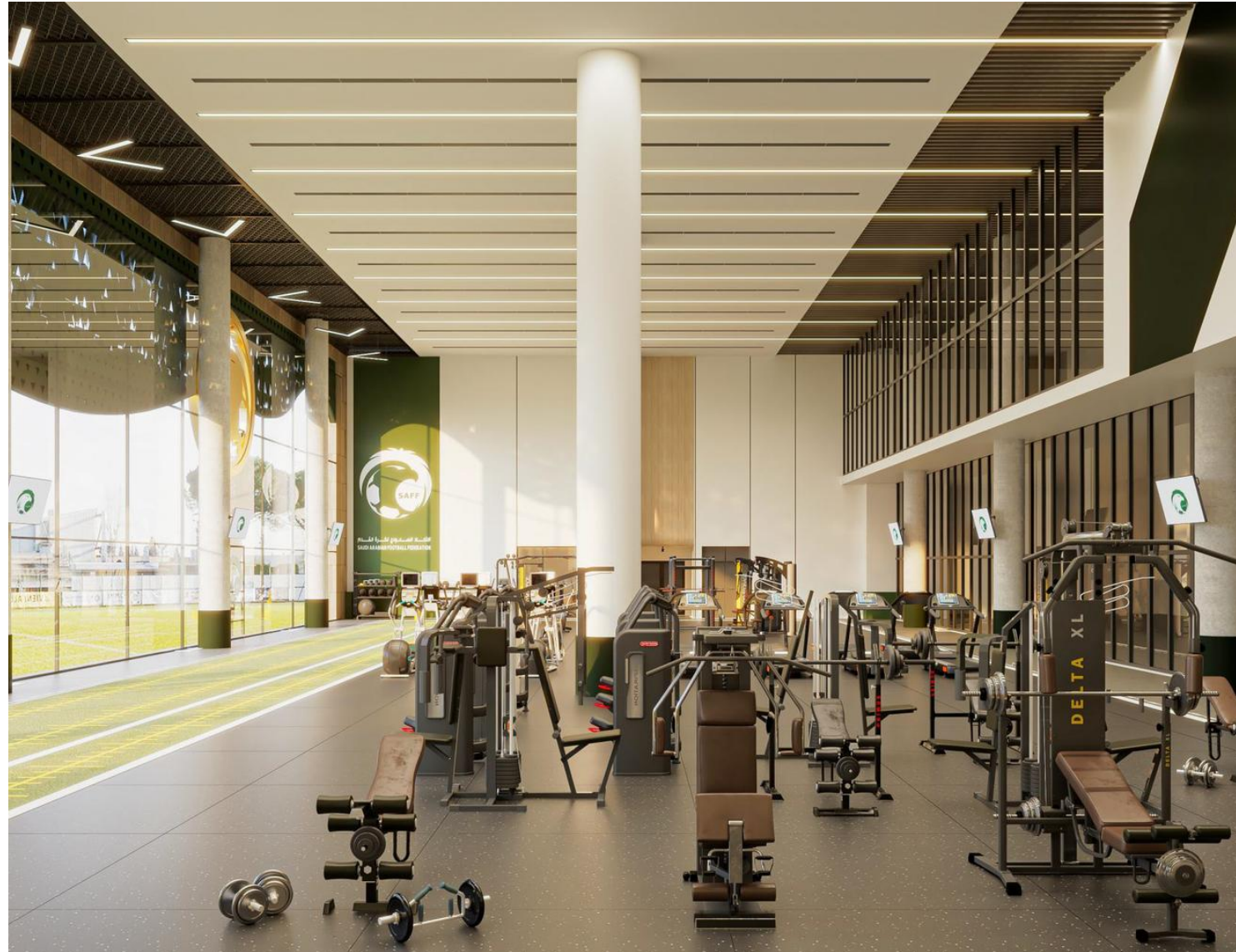
# Our Projects

## Saudi Aramco AMAAD Business Park

Year: 2024

Location: KSA

Scope Summary The detailed design of ELV, Security, Audio Visual Solution, Lighting Control , Building Automation, Sustainability and Acoustics for 2 towers in Parcels 3 and 4. The deliverables included layouts, control sequence of operation for all the MEP systems, Integration details, schematic and riser diagrams, rack face elevations, Technical Specifications, MTOs, coverage drawings for the security cameras.



## SAFF - ELITE FOOTBALL TRAINING FACILITY

Year: 2026

Location: KSA

Scope Summary The detailed design of ELV, Security, and Audio Visual Solution. The deliverables included layouts, control sequence of operation for all the MEP systems, Integration details, schematic and riser diagrams, rack face elevations, Technical Specifications, BOQs, coverage drawings for the security cameras.

# Our Projects



# Our Projects

## Diriyah Mosques

Year: 2026

Location: KSA

Scope Summary The local mosques (plot ref.: D6-RE-01 and D6-RE-02) are located in SOUTHWEST DISTRICT of Diriyah Gate II (DG II) Masterplan, Riyadh, KSA. While the local mosque (plot ref.: D9-RE-01) is located in KSU DISTRICT. Diriyah Gate II is characterized under 14 distinct districts which are defined based on their location within the masterplan setting. The concept design of the Audio Visual System, Acoustics design, Smart City Design, and Environmental Design.



# Our Projects

## S12

Year: 2026

Location: KSA

Scope Summary The design review of the MEP system of a residential building composed of Basement, G+8, and Roof Floors. The building has underground parking, and 124 apartments in addition to the different amenities.



# Our Projects

## NEOM (Food Sector Infrastructure Project)

Year: 2025

Location: KSA

Scope summary Provide Environmental Scoping Report along with Sustainability Report including the required software modeling and analysis required along with full acoustic study for the whole project including all the required simulation.



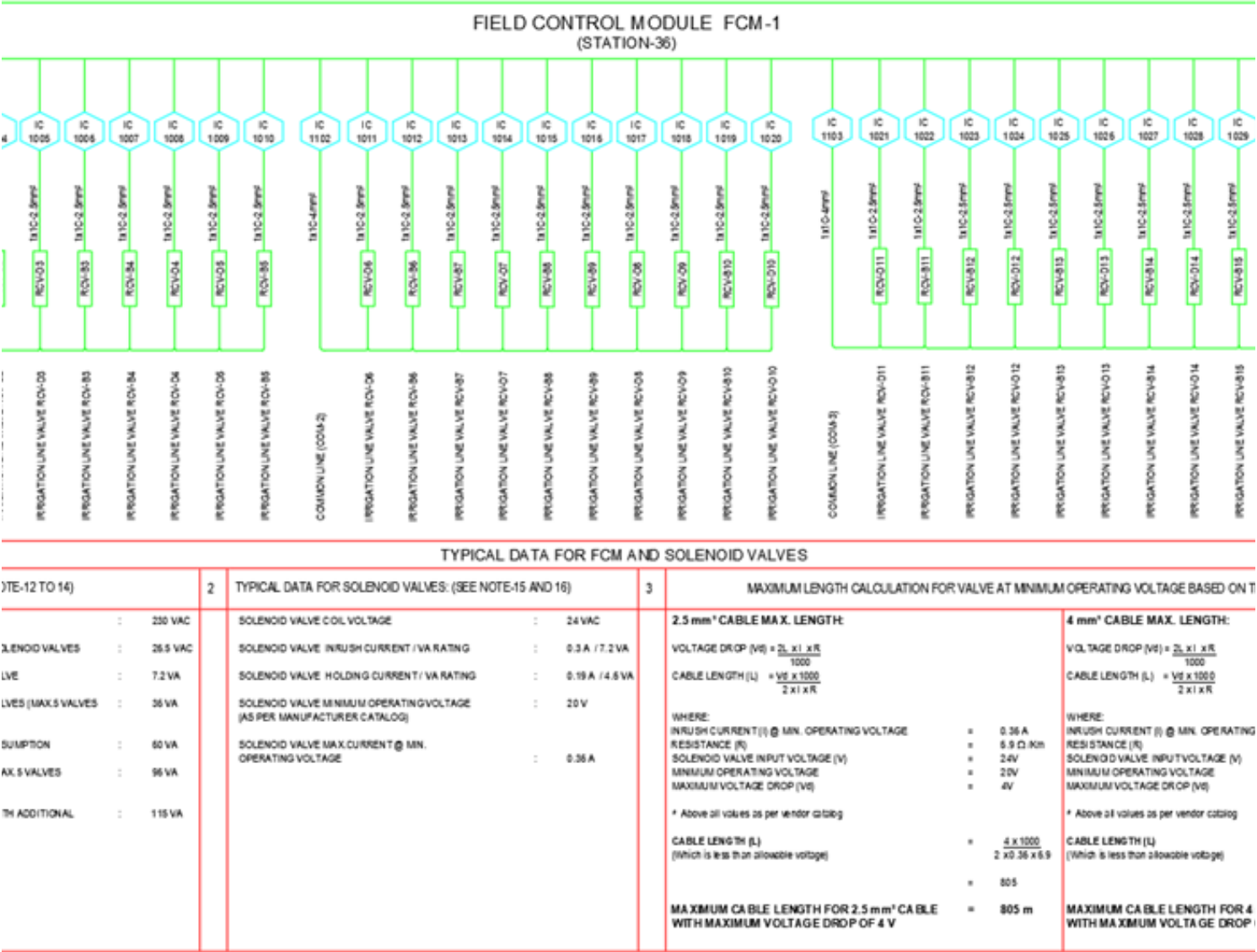
# Our Projects

## FLY KITCHENS

Year: 2025

Location: KSA

Scope Summary The detailed design of MEP Systems for four fly kitchens. The scope included the coordination with the kitchen equipment supplier. The deliverables included layouts, Installation details, schematic diagrams, Technical Specifications, BOQs.



JAZAN City - Road 7

Year: 2025  
Location: KSA  
Scope Summary The design of Smart Irrigation Control System for primary and secondary irrigation system of infrastructure project in JAZAN City for a road with total length of approximately 11 km. The design included all the P&IDs, Cable block diagrams, wiring diagrams, installation and hook-up details.

Our Projects



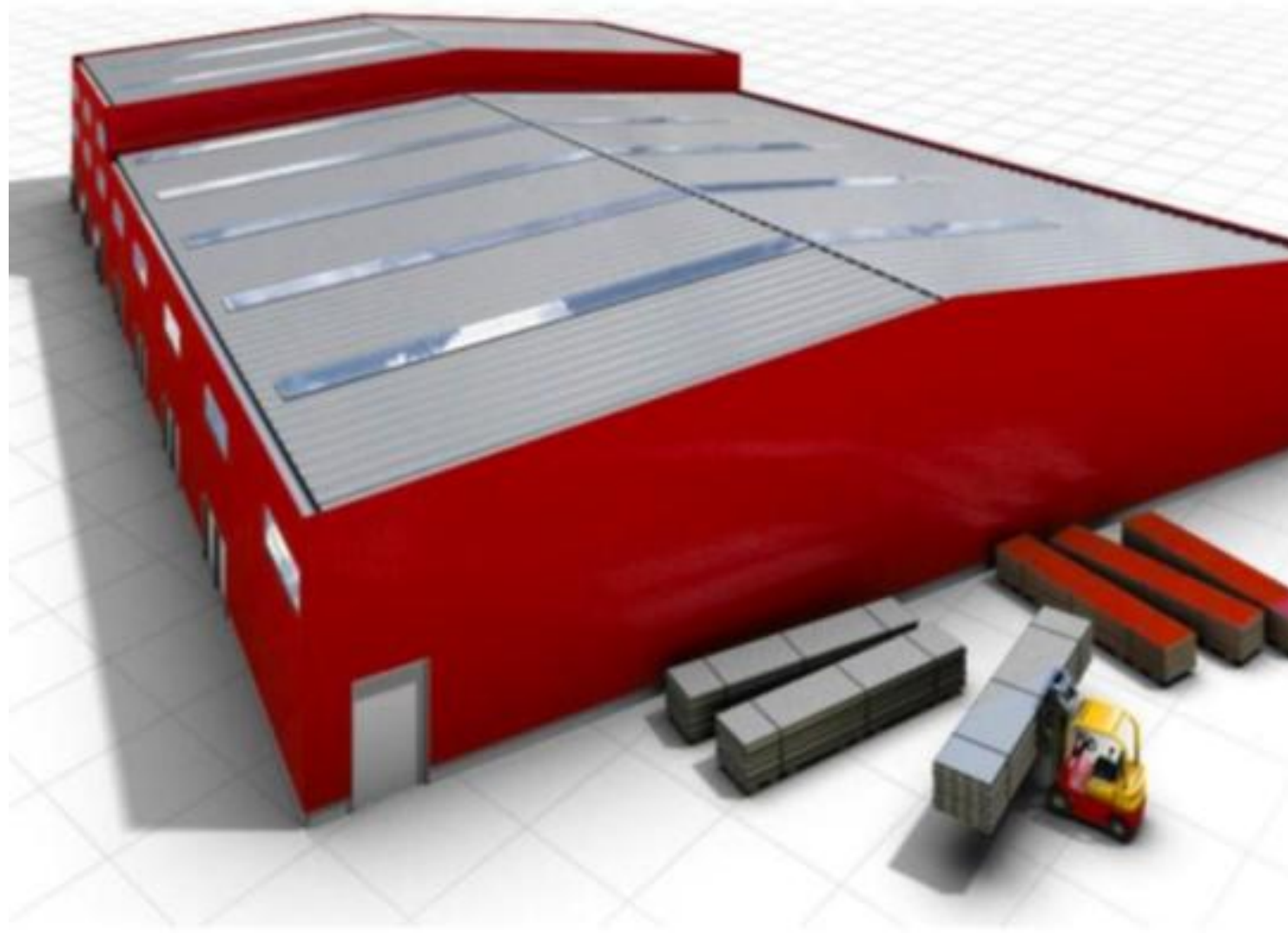
# Our Projects

## The Village mall

Year: 2024

Location: Oman

Scope Summary- Reassess and recalculate the outdoor cooling requirements of the entire outdoor area of the outdoor mall through thermal modelling , and align them with the operator's chiller plant capacity to ensure adequate service coverage. Develop a thermal storage strategy to minimize electrical demand by charging the storage system during nighttime hours—when ambient temperatures are lower—and discharging it during daytime peak periods and humid summer evenings. The analysis also considers cost savings associated with adopting a variable electricity tariff structure offered by the utility provider, maximizing chiller operation during periods of lowest energy rates.



# Our Projects

## NEOM (Vertical Farm)

Year: 2024

Location: KSA

Scope Summary Provide Environmental Scoping Report along with Sustainability Report including the required software modeling and analysis required along with full acoustic study for the whole project including all the required simulation.



# Our Projects

## ICONIC BUILDING

Year: 2024

Location: KSA

Scope Summary The detailed design of ELV, Security, smart irrigation system and Building Management System. The scope included the coordination with the site wide operation team for the integration with the Industrial Area headend. The deliverables included layouts, control sequence of operation for all the MEP systems, Integration details, schematic and riser diagrams, rack face elevations, Technical Specifications, BOQs, heat map studies for the Wi-Fi, coverage drawings for the security cameras.



Year: 2024

Location: KSA

Scope Summary The design Review and bidder evaluation report of Dammam hyper-scale Data Center in King Salman Energy Park with a capacity of 2.2 MW, shop drawings review and approval, and material submittal review and approval.



## NEOM Worker Villages

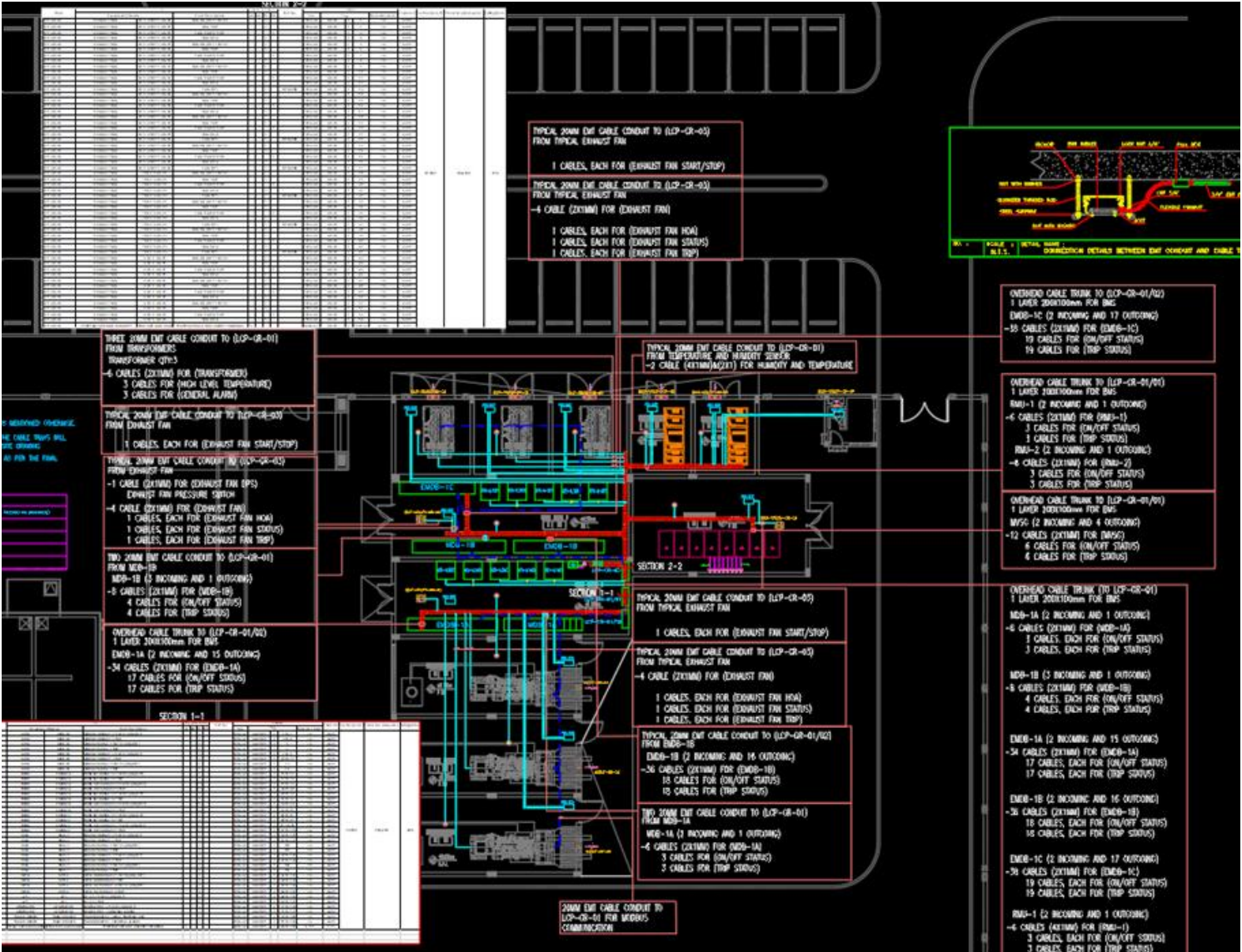
Year: 2023

Location: KSA

Scope Summary The villages are planned to accommodate approximately 10,000 residents in one plot and 5,000 workers in a separate plot.

The masterplan includes all residential and amenity components designed to support these populations. The conducted thermal and energy consumption assessment aimed to validate the projected loads and evaluate the performance of energy conservation strategies implemented under the project's wider sustainability framework.

# Our Projects



# National Bank of Egypt Data Center

Year: 2022  
Location: Egypt  
Scope Summary Creating MEP shop drawings for National Bank of Egypt Data Center – Egypt. The work included the design review and validation. Coordination with suppliers and reviewing the material submittals. Submission to the consultant and attending coordination meetings.

Our Projects



# Our Projects

## Capital Business District

Year: 2019

Location: Cairo Egypt

Scope Summary Conduct a comprehensive assessment of the thermal and energy consumption for the entire masterplan of the Capital Business District in Cairo, Egypt. This includes all masterplan components, encompassing 20 towers and the Iconic Tower—the tallest tower in Africa. The assessment aims to validate the project's thermal and electrical loads and evaluate the effectiveness of the energy conservation measures implemented.

Additionally, a sensitivity analysis was carried out for key elements, such as façade thermal performance, to support the definition of recommended performance levels from both energy efficiency and cost-effectiveness perspectives.

# Our Clients

The logos below represent a selection of clients and projects delivered by our team over the past seven years. These projects were delivered in collaboration with various leading consultancies and design offices, reflecting our ability to integrate seamlessly into large-scale, international engineering workflows



# Thank You



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