



DATA CENTER ENGINEERS



DarEngineeringConsultancy



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DarEngineering







Dar-Engineering















ABOUT DAR ENGINEERING

DAR Engineering is a leading multidisciplinary consultancy firm providing design, architecture, engineering, project management, construction management, and planning services across a broad range of sectors. We assist national governments, international organizations, and private sector companies by delivering comprehensive solutions with global expertise. With a dedicated team of Data Center engineers, we are shaping the backbone of tomorrow's digital infrastructure, aligning with our vision to empower smarter, more connected communities.

UNLIMITED SOLUTIONS

ARCHITECTURE	 Healthcare	 Education	 Residential	 Commercial	 Recreation & Hospitality	 Industrial	 Heritage & Culture	 Mixed-Use
	ENGINEERING	 Data Center	 Substation	 Transmission	 Water	 Infrastructure	 ICT	 Power Plant
SPECIALIST SERVICES		 Sustainability	 Signage	 Traffic Impact Study	 Public Realm	 Facade	 Specialist Lighting Design	 Acoustics
	CONSULTANCY	 Project Management	 Construction Management	 Site Supervision	 Art Management	 Program Management	 Cost management	

DAR - IN NUMBERS

 09 Data Centers	 50+ Laboratories & Clean Facilities	 03 Giga Entertainment Projects	 814K+ BUA For Hospitality	 9,900 MW Power Generation Plant Projects	 3,000 MW Bess Projects	 1,500 MW Renewables (Solar And Wind)
 05 Electrical (Substation/Ohtl)	 100+ Primary Healthcare Centres	 200K+ Sqm BUA For Entertainment	 71 Power System Studies (Utilities, O&G)	 620 Transmission Substations	 375 Emtp Power System Studies	 75 Transmission Planning & Grid Integration Studies



OUR SERVICES FOR DATA CENTERS

Civil and Structural Engineering



- Site selection and geotechnical surveys
- Foundation design and structural integrity for IT load and MEP plant
- Seismic bracing and wind loading considerations
- Slab strength for rack weight
- Building code compliance

Mechanical, Electrical & Plumbing (MEP) Engineering



- Electrical: UPS (N+1/2N), Generators & ATS, PDUs, Studies, kW/rack
- Mechanical: CRAC/CRAH, Chilled water & towers, HAC/CAC, Cooling methods, Temp/RH
- Plumbing: Chilled water loops, Fire suppression

Fire Protection Engineering (FPE)



- Clean agent systems (FM-200, Novec 1230)
- Emergency exits and smoke control

Telecommunications Engineering



- Structured cabling plant (fiber optic and copper)
- Cross-connects and patch panels
- Internet ingress/egress and inter-rack connectivity

Security Engineering



- Multi-layered security zones
- CCTV (Closed-Circuit Television)
- Intrusion detection systems (IDS)
- Access control systems (ACS) with biometrics

Building Management System (BMS) / DCIM



- Centralized monitoring and control of MEP systems
- Telemetry and alarm management
- Operational efficiency and OPEX (Operational Expenditure) optimization

KEY PROJECTS



Data Center for Prince Mohammed Medical City - KSA



Data Center for King Fahad Medical City - KSA



Data Center for King Saud Medical City - KSA



Data Center Site Capacity Assessment - KSA

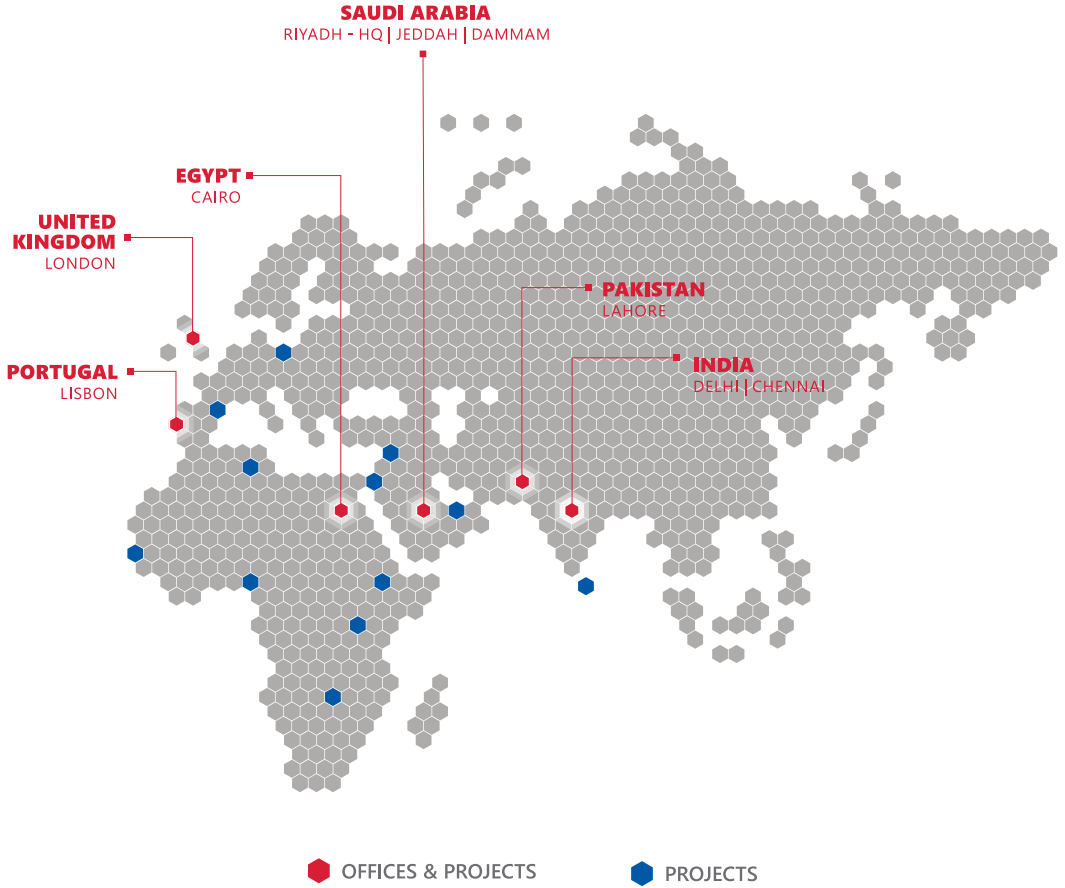


Mobily Modular Data Center - KSA



Project Mustang Due Diligence (Amazon Data Centers) - KSA





03

Continents

25

Countries
with Projects

900+

Completed
Projects

2,100+

Professionals

25

Year of Experience

09

Offices Globally