

# Matthew Bosley

## MEP TECHNICAL EXPERT

TECHNICAL DIRECTOR – ABU DHABI, UAE

### MEP EXPERT PROFILE

- Chartered Engineer with varied experience across all stages of a project lifecycle from early concept design through to on site installation and handover
- Experience working on wide range of projects from small fit-outs to major infrastructure projects such as airports and metro systems.
- Varied roles as both a contractor and a consultant
- As a project leader, experience managing and coordinating the delivery of multi-disciplinary design teams, including international projects delivered across several continents
- Particular understanding of the GCC region design requirements and approvals process
- Now managing the Middle East division of the Hoare Lea Expert Witness Group providing specific regional expertise

I lead our Middle East team providing specialist local expertise on regional MEP matters in support of our UK based Expert Witness Group.

In my role I have drafted expert reports, reply reports and joint statements either as, or on behalf of, the named Expert, in addition to attendance at hearings (both in person and virtual) participation in expert discussions and providing oral testimony under cross-examination.

My strengths include understanding and quickly identifying the key technical issues behind disputes, providing thorough analysis in an efficient manner, and explaining technical MEP matters clearly to a non-technical audience to assist Client and Counsel.

### RECENT INSTRUCTIONS

- **Addleshaw Goddard:** Middle East Metro System, investigating design progress and change events.
- **Clyde & Co:** Middle East Waterpark, investigating technical design issues related to mechanical HVAC services.
- **Dentons:** Luxury Hotel, investigating alleged disruption to MEP installation from structural design changes.
- **Fenwick Elliott:** Middle East Hotel, investigating MEP defects and identifying the underlying cause.
- **Hogan Lovells:** Middle East Industrial Project, investigating design change associated with delay.



### 15+ YEARS EXPERIENCE

#### QUALIFICATIONS & MEMBERSHIPS

MEng Engineering Design  
CEng MCIBSE, MASHRAE  
Máster en Climatización (HVAC)  
Member of Society of Construction Law (Gulf)  
Cardiff University Bond Solon Expert Witness Certificate

#### EXPERTISE

Ventilation	Air conditioning
Humidity control	Thermal Comfort
Water	Smoke
Project delivery	Coordination

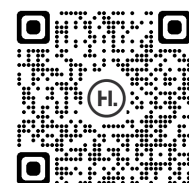
#### SECTORS

Transport	Hospitality
Retail	Workplace
Higher Education	Arts, Culture & Heritage
Residential	Manufacturing & Process
Fit-Out	

#### REGIONAL EXPERIENCE

United Kingdom  
Europe  
Middle East

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### Dispute resolution.

Example MEP projects for which I have provided advice either as Expert or in support of the Expert:

SECTOR	PROJECT	ISSUE IN DISPUTE	INSTRUCTING SOLICITOR
Arts, Culture & Heritage	Waterpark, UAE	Technical design issues related to mechanical HVAC services	Clyde & Co
Hospitality	Luxury Hotel, Qatar	Investigating alleged disruption to MEP installation from structural design changes	Dentons
Hospitality	5 star resort , UAE	Assess technical impact of design changes as part of alleged disruption claim	Clyde & Co
Hospitality	Family Hotel, UAE	Identify the underlying cause of defective MEP systems	Fenwick Elliott
Hospitality	5 star resort , UAE	Identify the underlying cause of defective MEP systems	White & Case
Manufacturing & Process	Desalination Plant , Qatar	Assess underlying causes of humidity issues and alleged deficiencies with HVAC system as well as analysis of design changes	Pinsent Masons
Manufacturing & Process	Petrochemical Facility, KSA	Analysis of extent of impact of design changes as part of a delay claim	Hogan Lovells
Offices	Hi-Rise Office Tower, KSA	Assessment of alleged design defects and potential impacts on construction programme	Norton Rose Fulbright
Transport	Airport, Middle East	Review of MEP tender design for alleged design deficiencies	White & Case
Transport	Airport, Middle East	Assessment of the impact of design changes on ability to progress design	Mayer Brown
Transport	Metro, Middle East	Assessment of the impact of design changes on ability to progress design, analysis of design variation claims	K&L Gates
Transport	Metro, Middle East	Assessment of the impact of design changes on ability to progress design, analysis of design variation claims	Addleshaw Goddard
Healthcare	Major Hospital , UAE	Review and assess technical justifications for proposed rectification works and underlying cause of alleged deficiencies	White & Case



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### Project experience.

I provide examples below of project design and delivery experience:

SECTOR	PROJECT
Transport	<p>Doha Metro Green Line, Qatar</p> <p>Project Coordinator and Lead Client Interface for complete MEP design and site supervision of major \$2bn new metro line including 6 underground stations, 20 km of twin bore tunnel and ancillary buildings such as substations and escape shafts</p>
Transport	<p>Heathrow Airport Terminal 2A, UK</p> <p>Mechanical Design Manager responsible for delivery of mechanical services design for £2.5bn flagship new terminal at London Heathrow Airport for up to 20 million passengers per year, including coordination with other design disciplines, external stakeholders and local authority approvals.</p>
Transport	<p>Heathrow Airport Terminal 3 Integrated Baggage Facility, UK</p> <p>Mechanical Site Manager—responsible for overseeing the installation works of all mechanical services by the appointed MEP subcontractor. A £500m state of the art central baggage processing facility with underground connectivity to T5, T3 and T2.</p>
Transport	<p>Etihad Lounges, Abu Dhabi Airport Midfield Terminal Building, UAE</p> <p>Provided HVAC design services to assist with various Client challenges coordinating with changing base build provision for new 20,000 m2 premium lounge space to serve Etihad customers in Abu Dhabi's new Midfield Terminal Building.</p>
Hospitality	<p>Armed Forces Officers Club &amp; Hotel resort expansion, UAE</p> <p>MEP Project Leader (including specialist lighting, acoustics, security and ICT/AV) for major expansion of historic Abu Dhabi institution, including a new industrial catering facility, a large banquet hall, a full new beachfront development including hotel villas, a beach club with a large new swimming pool, new beachfront F&amp;B units, a new sports hub and a laundry facility in addition to a full refurbishment of the existing hotel rooms and F&amp;B areas.</p>
Higher Education	<p>42 Abu Dhabi, UAE</p> <p>MEP project leader for state of the art computer programming school as part of redevelopment of the historic Abu Dhabi port area. Working with both the Client to produce concept designs for tender and with the Contractor as part of a design and build team from project inception through to successful handover.</p>
Higher Education	<p>Heriot Watt University, UAE</p> <p>Provided MEP oversight and support in achieving local authority approvals and GSAS accreditation for brand new 20,000 m2 campus in Dubai.</p>
Manufacturing & Process	<p>Ajman Fish Farm, UAE</p> <p>Lead Mechanical Engineer working with aquaculture specialists to develop design for brand new facility adapting European process techniques to the UAE environment.</p>



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### Project experience.

I provide examples below of project design and delivery experience:

SECTOR	PROJECT
Arts, Culture & Heritage	Expo 2020 Dubai - Thematic Districts, UAE
	Expo 2020 Dubai - Al Wasl Plaza, UAE
	Expo 2020 Dubai - France Pavilion, UAE
	Expo 2020 Dubai - First in Place Pavilion / Visitor Centre, UAE
	Mechanical Engineering support and management of site supervision team for various projects at Dubai's Expo 2020 site, scope included the complete MEP design and supervision (from initial concept to handover) of more than 80 individual pavilions, plus the flagship centrepiece Al Wasl Dome and a large underground basement as well as standalone pavilions for France and design and construction of the First in Place Pavilion.
Workplace	Embassy Project, UAE
	MEP design review, approval and site supervision of refurbishment and expansion of international embassy facility in Abu Dhabi.
Workplace	Yas Media Zone, UAE
	MEP feasibility analysis working with Client and prospective Tenants to ascertain service requirements and propose solutions for new media hub facility in Abu Dhabi.
Workplace	ADIA HQ Compliance Upgrades, UAE
	MEP Project Leader for upgrade works including survey to identify and propose design solutions and produce complete tender package to bring existing facilities in line with current code for the headquarters of the Abu Dhabi Investment Authority.
Retail	Abu Dhabi Duty Free, Abu Dhabi Airport Midfield Terminal Building, UAE
	MEP Project Leader for complete design and site supervision of main duty free shopping area in the new Midfield Terminal Building at Abu Dhabi International Airport, including specialist audiovisual elements.
Retail	Chilled Water & Kitchen Extract Improvement Works, Galleria Mall, UAE
	Kitchen Extract Improvement Works, Galleria Mall, UAE
	MEP Project Lead for various survey and design improvement works at major Abu Dhabi mall.
Residential	Newbury Street development, UAE
	Masterplan feasibility works proposing conceptual district level MEP servicing strategies for new large residential development on a new island development in Abu Dhabi.
Residential	West Yas, UAE
	Project Lead managing commissioning and sustainability teams to obtain necessary authority approvals for large scale residential development in Abu Dhabi.

