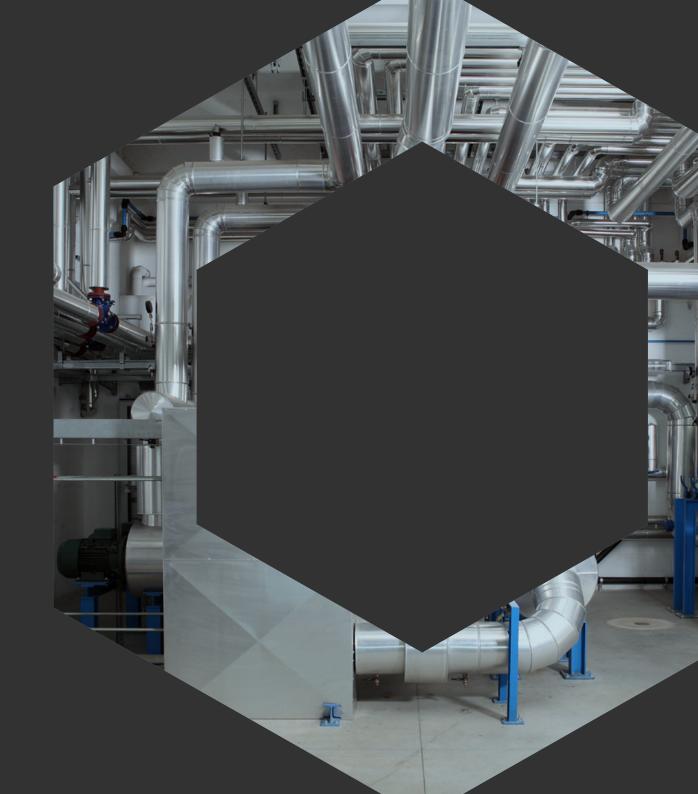


Independent MEP technical expertise. Simplifying the complex.

HOARE LEA EXPERT WITNESS











"We provide accurate and impartial advice. Simplifying the complex, to help you solve MEP engineering problems and disputes efficiently and economically."

KENELM HOARE
TECHNICAL DIRECTOR

Contents

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- Geographic spread
- Where we have expertise
- Case experience
- Clients we've worked with
- Our team
- Middle East experience



"With a breadth of experience across the UK & Middle East we use our expert knowledge, skills, and experience to advise on engineering problems and disputes."

MATT BOSLEY
TECHNICAL DIRECTOR















Hoare Lea Expert Witness group.

The Expert Witness group assist both the legal profession and those directly involved in the construction industry to assist in the resolution of issues at the earliest stage possible. We have acted in the resolution of issues on live projects, in an advisory role as well as in more traditional expert roles involving mediation, adjudication, international arbitration and the High Court. Our experts are based in the UK and the UAE and are widely recognised for consistent quality of service. The team comprises specialists in all building services disciplines, mechanical, electrical, public health and fire protection.

Relevant expertise.

Our team are part of Hoare Lea, an award winning engineering consultancy. With over 160 years of experience to draw upon, the firm today employs over 1000 people working on current built environment projects. This proximity to real world engineering puts our experts at the heart of industry, we understand the latest regulations, industry trends and innovations, ensuring our advice is based on the latest knowledge and best practice. Our expertise is current and relevant.





Geographic spread.

UK team



Kenelm Hoare TECHNICAL DIRECTOR



TECHNICAL DIRECTOR



Martina Sonogova TECHNICAL DIRECTOR



Tony Sullivan ASSOCIATE DIRECTOR



David Sworder CONSULTANT



Don Court CONSULTANT

UAE team



Matt Bosley
TECHNICAL DIRECTOR



Dina Alustath SENIOR ASSOCIATE



Stephen Kelly
ASSOCIATE DIRECTOR





DOCUMENT CONTROLLER

Niyant Patel
BIM MANAGER





Where we have expertise.

We provide independent advice based upon well informed sound professional judgement, an accurate appreciation of technical issues, and a first-hand up-to-date understanding of the construction industry gained through our direct connection to live projects and current industry practices.

Mechanical.



Air / water cooled chillers



Boilers



Chilled water systems



District heating / cooling



DX & VRF cooling systems



Energy centres



Gas



Heating, ventilation and air conditioning (HVAC)



Heat interface units



Heat recovery



Low temperature hot water systems



Natural ventilation



Pumps



Smoke control



Stair pressurisation





Earthing



Electrical generation



Emergency lighting



Emergency power



Fire detection and alarm



High voltage distribution systems



Life safety



Lighting & lighting controls



Lightning protection



Low voltage distribution systems



Photovoltaics



Security systems

Public health.



Domestic water systems

Treated Sewage



Foul water drainage



Grey water systems



Plumbing



Pumping stations



Rainwater/ stormwater drainage

Effluent (TSE)



Dry risers



Fire suppression



Gaseous suppression systems



Hydrant systems



Sprinkler systems



Wet risers

Multidiscipline.

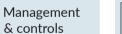


Authority approvals

Site investigations



Building Management Systems & controls





Change control



MEP coordination



MEP design management



MEP site supervision

We support our expert services with intelligent use of the wider firm's resources, particularly the expertise of our industry leading specialist groups, including:

Site utilities

Acoustics • Air Quality • Audiovisual • Digital Engineering • Fire Engineering Property Services • Security • Specialist Lighting • Sustainability • Vertical Transportation







Case experience.

We've worked with solicitors and counsel providing direct expert engineering advice and as part of multi-disciplinary teams - comprising architectural & structural experts, quantum and delay experts, disruption analysts and testing laboratories.

Dispute resolution methods range from High Court to international arbitration tribunal, to adjudication and mediation for complex disputes in the UK and Middle East.

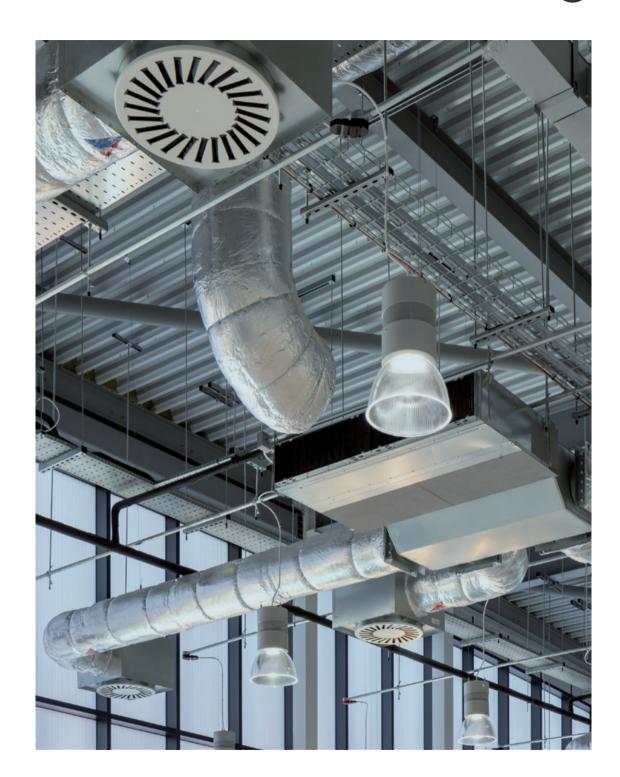
Our case experience includes assessments of:

Authority approvals	Condensation risk	Coordination of engineering systems
Design change and associated impact	Design defects, design quality	Design effort
Electrical fires	Engineering systems failures	Inspection inadequacies
Installation and workmanship defects	Liability for energy usage and the ability to rebill	Improper operation / maintenance
Drainage adequacy / flood events	Overheating of residential developments	Power system failures
System performance	Technical advice supporting delay, disruption & quantum claims	Technical review of variations and change orders

We provide expert witness and advisory services on a wide range of project types including:

Arts, Culture & Heritage • Data Centre • Mission Critical • Healthcare • Higher Education Hospitality • Manufacturing & Process • Residential • Retail • Sports • Transport

Workplace • Utilities and infrastructure







Clients we've worked with.

The Hoare Lea Expert Witness Group has been instructed by:

Addleshaw Goddard	Ashfords	Ballymore Group	Beale & Company	Brodies	Browne Jacobson	Charles Russell Speechlys	Clyde & Co	CMS
Crowell & Moring	DAC Beachcroft	Dentons	DWF	Eversheds Sutherland	Fenwick Elliot	Fieldfisher	Forsters	Gowling Wig
HCR Hewitsons	Herbert Smith Freehills	Hogan Lovells	ISG	K&L Gates	Kennedys Law	Keoghs	King & Spalding	MacFarlanes
Mantle Law	Mayer Brown International	Michelmores	Norton Rose Fulbright	Pinsent Masons	Reynolds Porter Chamberlain	Seddons Law	Shepherd + Wedderburn	Shoosmiths
Sloan Plumb Wood	Squire Patton Boggs	Stephenson Harwood	Taylor Wessing	Trowers & Hamlins	Ward Hadaway	Wedlake Bell	Weightmans	White & Case

Our team.



Paul McDonough MEP TECHNICAL EXPERT TECHNICAL DIRECTOR

BSc (Hons) Electrical and Electronics Engineering CEng MIET **MCIBSE**

35+ years experience

Expertise:

HV & LV systems	Lighting
Generation	FA systems
IT systems	Security
Control systems	Lightening protection

CV



Martina Sonogova MEP TECHNICAL EXPERT **TECHNICAL DIRECTOR**

PhD Environmental Engineering CEng, MCIBSE Member of Society of Construction Law Cardiff University Bond Solon (CUBS) Expert Witness Civil Certificate

15+ years experience

Expertise:

Gas	Water	
Heating	Ventilation	
Cooling	Air conditioning	
Humidity control	Smoke vent	

CV



Matthew Bosley MEP TECHNICAL EXPERT **TECHNICAL DIRECTOR**

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

15+ years experience

Expertise:

•	
Ventilation	Air conditioning
Humidity control	Thermal comfort
Water	Smoke
Project delivery	Coordination



Stephen Kelly MEP TECHNICAL EXPERT ASSOCIATE DIRECTOR

BEng (Hons) Building Services Engineering **MCIPHE**

CIBSE UAE Technical Committee Member of Society of Construction Law (Gulf) Cardiff University Bond Solon (CUBS) Expert Witness Civil Certificate

20+ years experience

Expertise:

Drainage	Water
Fire protection	Gas
Treated Sewage Effluent (TSE)	Grey water

cv



Kenelm Hoare MEP TECHNICAL EXPERT TECHNICAL DIRECTOR

MSc Building Services Engineering CEng, MIET, MCIBSE Society of Construction Law member Cardiff University Bond Solon (CUBS) Expert Witness Civil Certificate

20+ years experience

Expertise:

LV systems	Life safety
Lighting & controls	Generation
Emergency lighting	Fire alarms
Lighting protection	Security

CV



Tony Sullivan MEP TECHNICAL EXPERT ASSOCIATE DIRECTOR

B.Eng(Hons) Building Services & Environmental Engineering CEng, FCIBSE. IntPE(UK), CPEng(NZ), CMEngNZ

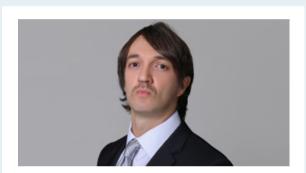
30+ years experience

Expertise:

Gas	Water
Heating	Ventilation
Cooling	Air conditioning
Smoke vent	Road tunnel systems
Operations &	

maintenance

cv



Philip Dobson MEP TECHNICAL EXPERT TECHNICAL DIRECTOR

CEng, MCIBSE, MASHRAE MEng (Hons) Mechanical Engineering LLM Construction Law and Pratice Cardiff University Bond Solon (CUBS) Expert Witness Civil Certificate

15+ years experience

Expertise:	
Ventilation	Air conditioning
Heating	Humidity control
Cooling	Smoke
Project delivery	MEP surveys



Dina Alustath MEP TECHNICAL EXPERT SENIOR ASSOCIATE

BSc Electrical & Electronics Engineering MSc Energy (HV Power Transmission) CEng, MIET Member of Society of Construction Law (Gulf) Member of Society of Engineers - UAE Cardiff University Bond Solon (CUBS) Expert Witness Civil Certificate

15+ years experience

Expertise:

Expertise.	
Small power	Lighting
Emergency lighting	Earthing
Fire & life safety	Lighting protection
Medium voltage SS	

cv



David Sworder MEP TECHNICAL EXPERT CONSULTANT

BSc Mechanical Engineering Science **MCIBSE AMIMechE**

40+ years experience

Expertise:

Gas	Water
Heating	Ventilation
Cooling	Air conditioning
Humidity control	Smoke

CV



Don Court MEP TECHNICAL EXPERT **CONSULTANT**

BSc (Hons) Electrical and Electronic Engineering MIET

45+ years experience

Expertise:	
HV & LV systems	Lighting
Generation	FA systems
Earthing	IT systems
Power system studies	Security
Control systems	Lightning protection

CV



Niyant Patel BIM MANAGER

Diploma in Mechanical Engineering

15+ years experience

Expertise:

MEP BIM modelling	MEP BIM management
BIM coordination	Clash detection
Families	BIM productivity tools

CV





Middle East experience.

We have a dedicated team based in the Middle East with region-specific project experience. We understand the complexities of large projects, as well as the local procedures and regulations. We have provided independent expert opinion and testimony on disputes in the UAE, Oman, Qatar and KSA.

Our expertise draws from our local design and site supervision experience, which includes some of the region's most important projects, including:

- Doha Metro Green Line
- Dubai Expo 2020 Thematic Districts and Al Wasl Plaza
- Ahmad bin Ali Stadium (Al Rayyan Stadium)





Engineers of human experiences.

Hoare Lea is an award-winning engineering consultancy with a creative team of engineers, designers, and technical specialists. We provide innovative solutions to complex engineering and design challenges for buildings.

Irrespective of the scale or complexity of a project, we provide a full range of MEP, environmental, and sustainability services, bringing buildings to life and ensuring that they perform in operation as well as they look.

HOARELEA.COM / SPECIALISM / EXPERT-WITNESS

