



MEP

PRE-PLANNING

MEP Advisory Services

Sustainability Services

Low and Zero Carbon Studies

Due Diligence/Viability Engineering Appraisal incl. Budget Costings, Preliminary Plant/Riser Space Assessment

Preliminary Building Physics Analysis/Preliminary Dynamic Thermal Modelling and Building Simulation to;

- Support Architectural/Façade Design and the Selection of Building Materials to Reduce Energy Consumption, Carbon Generation, and to Maximise the use of Natural Daylighting.
- Manage Solar Gain, Investigate the Effectiveness of Shading Options/Opportunities to Harness Beneficial Solar Gain, etc.
- Assess the Potential to use Thermal Mass to reduce cooling loads.
- Advise on the Implications of Building Orientation.
- Investigate Natural Ventilation Opportunities
- Assess Building Regulations Part L Compliance

Utility Infrastructure Advice, Design & Management

MEP Services Condition Surveys & Audits

Site Surveys

Planning Services Support

- Daylight & Sunlight Assessment
- Lighting Impact Assessment
- EIA Environmental Chapter (Utilities)

POST-PLANNING

MEP Engineering Design and Consultancy Including;

- Heating, Ventilation and Air Conditioning (HVAC)
- Fuel Supply & Distribution
- Combined Heat & Power Generation
- Chilled Water Plant and Cooling Systems
- Building Automation Systems and Controls/BMS
- Air Filtration
- Public Health Design
- High and Low Voltage Systems, Switchgear and Distribution
- Earthing & Protection Systems
- Lighting (Internal and External)
- Life Safety Systems
- Security Installations
- IT Infrastructure
- Communications Systems
- Standby Generation & UPS systems
- Vertical Transportation
- Lightning Protection

Building Physics Analysis/Detailed Dynamic Thermal Modelling and Building Simulation Evaluation

Low & Zero Carbon Building Design incorporating;

- Energy Efficient Design
- Renewable & Passive Design Technologies
- Daylighting design

Utility Infrastructure Advice, Design, and Management

Client Advisor Services Overseeing Design and Build Procurement including;

- Development of MEP Designs to Agreed RIBA Stage
- Production of Employers Requirements Documents, Performance Specifications, etc.
- Review and Monitoring of Contractor Design, Installation and Performance

Building Information Modelling (BIM) and CAD Services

Value Engineering