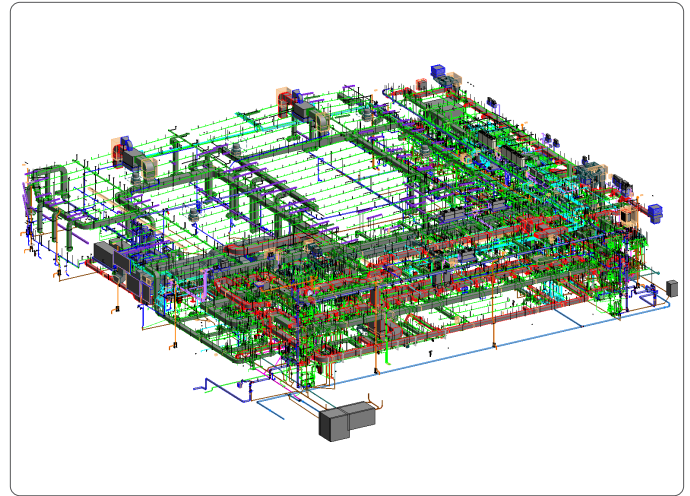


Introduction

BET (Bureaux d'Études Techniques) is a leading engineering firm specializing in delivering comprehensive engineering solutions across residential, commercial, industrial, and infrastructure sectors. We provide high-quality MEP (Mechanical, Electrical, and Plumbing) services, integrated BIM (Building Information Modeling) solutions, and sustainable design practices to ensure exceptional value to our clients worldwide. Our mission is to blend innovation, technical expertise, and efficiency in every project.



Vision and Mission

Our vision is to be the preferred office for innovative and sustainable engineering solutions. We aim to deliver excellence by combining cutting-edge technology, in-depth industry expertise, and a commitment to sustainability. BET strives to create a smarter, safer, and more sustainable built environment that adds long-term value to clients and communities.

Core Services

BET offers a comprehensive range of services tailored to meet the evolving demands of the construction and engineering industries:



3D BIM Modeling: Detailed 3D representations of physical and functional characteristics of buildings, ensuring accuracy in the design process.



MEP BIM Services: Expertise in designing and coordinating Mechanical, Electrical, and Plumbing systems to streamline project execution.



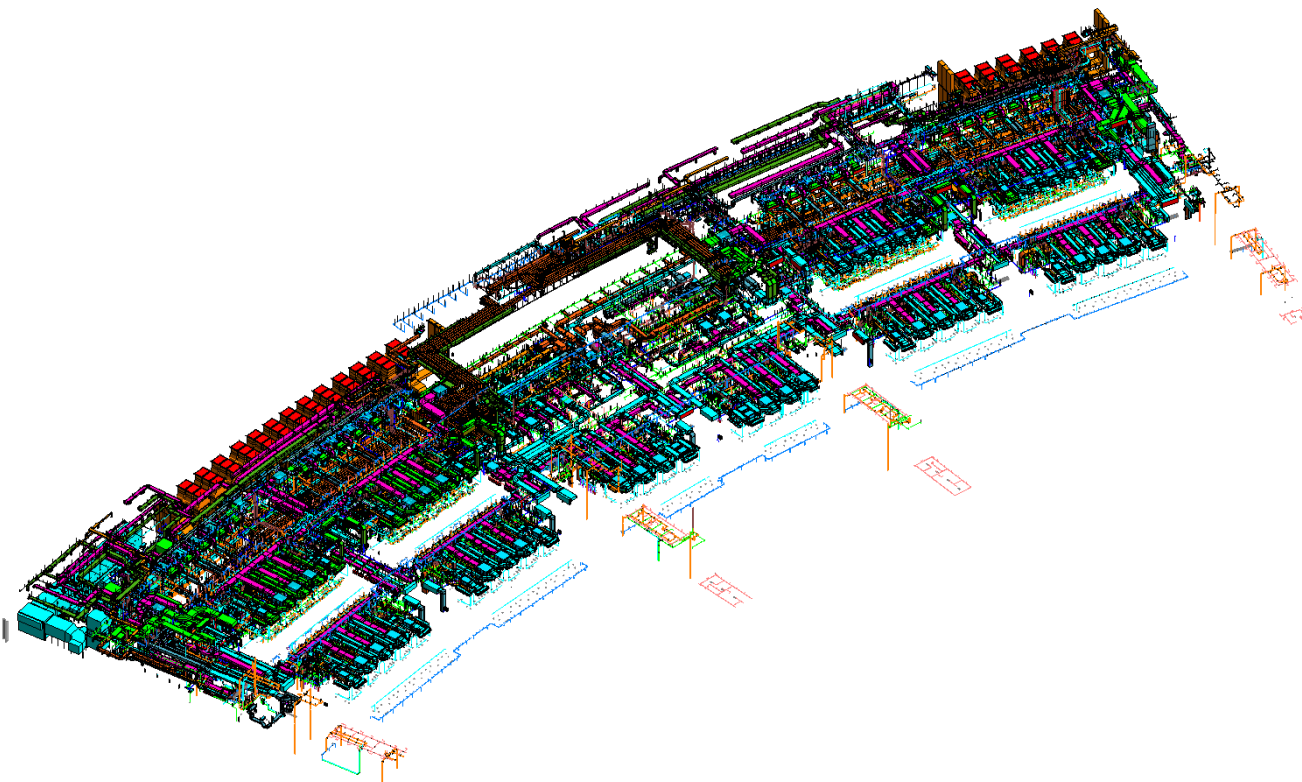
Clash Detection & Coordination: Identifying and resolving design clashes early in the process to prevent costly delays and rework.



Shop Drawings & Fabrication Documentation: Providing precise construction documentation to ensure smooth fabrication and installation.



As-Built Documentation: Comprehensive documentation of the completed project for future use and maintenance.



The BET provides MEP Planning and design support for a wide range of sectors, including:

- Residential buildings
- Commercial buildings
- Highrise buildings
- Industrial facilities
- Industrial towers
- Power plants
- Metro stations
- Airports
- Universities
- Schools
- Hospitals
- Laboratories
- Hospitality and leisure facilities
- Retail spaces
- Data centers and IT infrastructure
- Healthcare facilities
- Educational institutions

These services are integral to MEP in Building Construction, ensuring seamless integration across various sectors.

Our shop drawings for MEP systems typically include:

- Detailed layout plans and sections for mechanical, electrical, and plumbing systems
- Equipment schedules and specifications
- Pipe and duct routing with precise dimensions and annotations
- Electrical wiring diagrams and panel schedules
- HVAC ductwork and piping details
- Fire protection system layouts
- Coordination drawings showing integration with structural and architectural elements, supported by our MEP BIM Coordination Services and BIM Coordination Services
- Installation details and notes

These drawings ensure effective Design Coordination and Clash Detection during MEP in Building Construction.

Areas of Expertise

BET's team of highly skilled engineers, designers, and BIM specialists are proficient in delivering solutions across various systems:



Existing Conditions & As built Modeling

Expert assistance in converting your PDFs/Point Cloud scan to Existing building models and documentation @LOD100 and As-builts @LOD500



Design Documentation & Schedule

Comprehensive support for MEP design documentation and schedule extraction at LOD 200 and LOD 300 to ensure that your project's MEP systems are accurately detailed and efficiently managed.



Design Coordination

Detailed and accurate models are created for mechanical, electrical, plumbing, and fire protection systems, enabling seamless coordination and collaboration among project stakeholders.



Shop Drawings @LOD400

Generate shop drawings providing crucial information for the installation teams on-site to ensure smooth and efficient installation processes.



Mechanical systems

- Ductwork and ventilation systems
- Chilled Water system
- Variable refrigeration volume systems and refrigerant networks
- Pressurization and smoke exhaust
- Air Filtration, humidity control, and indoor air quality
- Heating systems and boilers
- Cooling plants, chillers, and pump rooms
- Data center cooling



Plumbing systems

- Domestic water networks and distribution
- Drainage, waste, and storm drain networks
- Filtration, desalination, and RO systems
- Oil and grease interceptors
- Fuel networks
- LPG networks and storage
- Compressed air and medical gas systems
- Steam generation and distribution
- Swimming pool filtration, balancing, and water networks



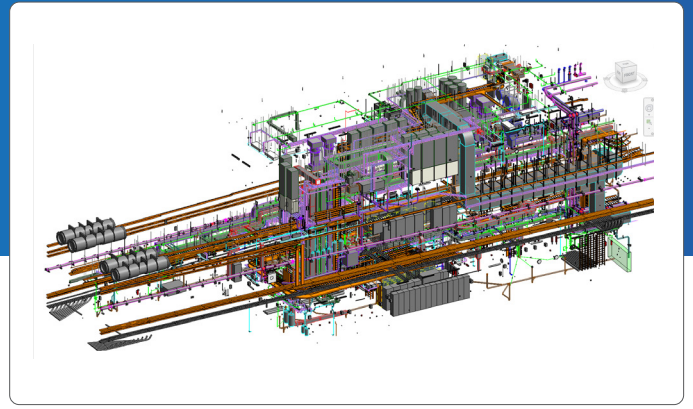
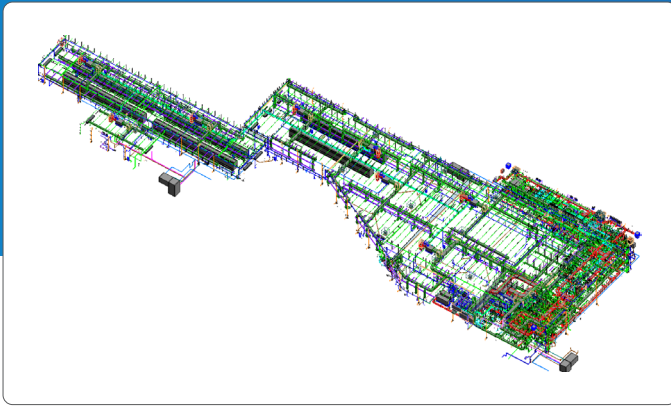
Electrical systems

- Power generation and distribution
- Lighting and lighting control system
- Lightning protection system
- Photovoltaic plants
- Grounding and earthing
- Building Management system and Integration
- Audio Visual System, PAVA and BGM
- Central battery system
- Fire Alarm system
- Digital signage and video walls
- Security, CCTV and Access Control system
- Data system and ICT



Fire Protection systems

- Fire Sprinklers
- Zone control valve
- Smoke curtains
- Fire Alarms
- Fire Extinguishers
- Fire hose cabinets, outlets, and valves
- Wet pipe systems
- Dry pipe systems:
- Pump Rooms
- FM200 and NOVEC



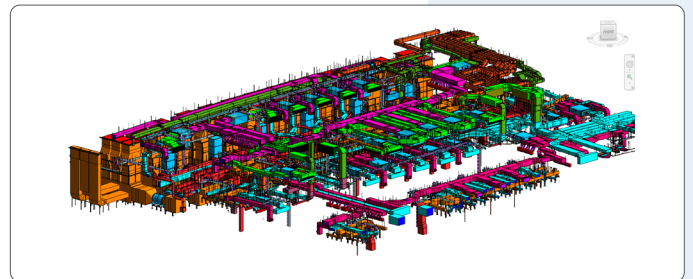
Expertise and Competitive Edge

BET excels in delivering integrated engineering solutions that address complex challenges in the construction industry. By leveraging state-of-the-art technology and advanced software, we ensure precision and efficiency in every project. Our global reach and multidisciplinary approach enable us to handle projects of any scale, from local developments to large-scale international projects.

Our team is equipped with the necessary resources, expertise, and project management tools to manage various projects concurrently while ensuring high-quality deliverables and meeting deadlines. This capability extends to handling MEP Planning and Design Coordination across multiple projects, ensuring effective Clash Detection and seamless MEP in Building Construction.

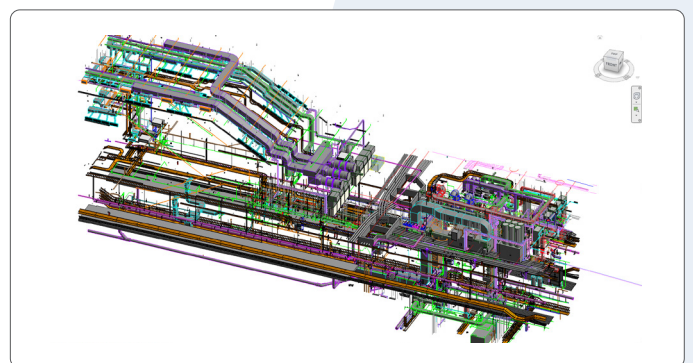
Project Experience

With over 20 years of experience in the Middle East including residential, commercial, industrial, healthcare, and infrastructure projects. We are committed to delivering projects on time, within budget, and in compliance with international standards.



Sustainability Commitment

Sustainability is at the core of BET's business strategy. We are dedicated to implementing energy-efficient and environmentally responsible solutions in every project we undertake. Our sustainable design approach minimizes environmental impact while maximizing building performance and efficiency, ensuring long-term benefits for our clients and the environment.



Contact Us

For more information about our services and how we can help with your next project, please visit our website or contact us at: support@bet-engineers.com

Bureaux d'Etudes Techniques S.A.R.L, Baabda – Lebanon
Tel KSA + 966 56 639 6366 - LB + 961 5 330033