

Capstone: Your trusted BIM Partner for MEP Engineering Excellence

The Kingdom of Saudi Arabia (KSA), with its large-scale infrastructure projects and focus on modernization, is seeing a rise in BIM adoption similar to the US. While BIM usage might not be ubiquitous yet (estimates suggest penetration around 20-30%), the advantages are substantial. 3D BIM models facilitate seamless collaboration between architects, engineers, and contractors, significantly reducing errors and costly rework – critical for KSA's ambitious construction goals. Further, BIM empowers MEP engineers to design with sustainability in mind, optimizing buildings for energy efficiency, which aligns with Saudi Vision 2030's commitment to environmental responsibility. As the global BIM market surges towards \$10.6 billion by 2027, BIM is poised to become an indispensable tool shaping the future of KSA's built environment. Capstone Engineering stands at the forefront of this movement, leveraging our BIM expertise to deliver high-performance and cost-effective MEP solutions for your projects in KSA.

Our MEP BIM Expertise:

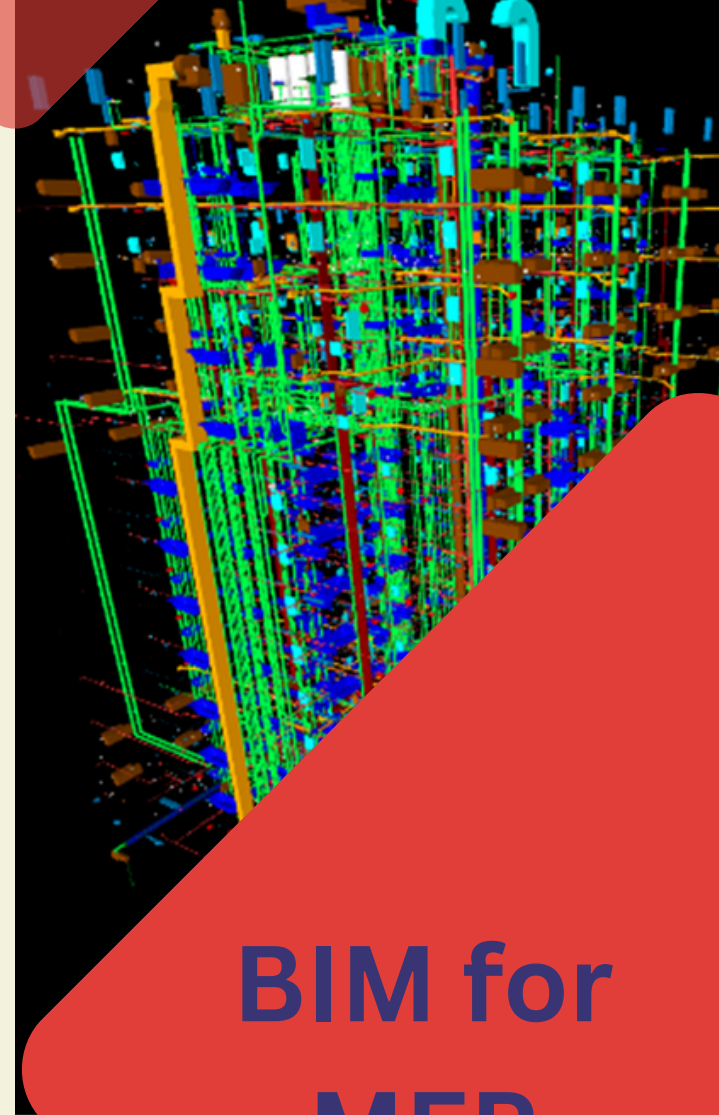
- 3D BIM Modeling for MEP
- Clash Detection and Resolution
- MEP Design Development & Coordination
- MEP Design Validation

About Capstone Engineering Solution:

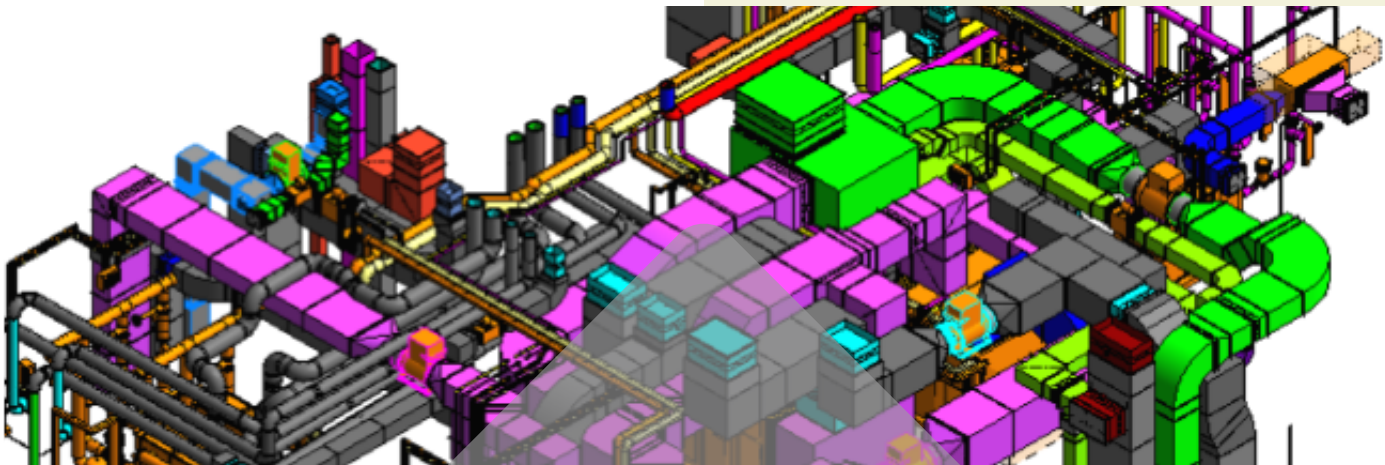
Welcome to Capstone, where innovation meets expertise in architecture, structure, MEP, and industrial services. With a proud legacy spanning over 17 years, we have emerged as a trusted partner for industry giants like Specon, Petrofac, TechnipFMC, AECOM, and Dodsai. Our journey is marked by a relentless pursuit of excellence, delivering top-notch solutions in architecture, building, house exteriors, renovations, and industrial projects.

Our Services:

- 3D BIM Modeling, Coordination & Clash Resolution (LOD 300, LOD 400)
- Shop Drawings, Riser Drawings, Sleeve Penetration/Cut-Out Drawings
- Block-out Drawings, Pre-Fabrication/Spool Drawings
- CNC Data Integration with BIM Models
- Quantity Take-offs (Pre-bid & Execution)
- Value Engineering & MEP Design Validation
- As-Built Modeling & As-Built Documentation
- Scan-to-BIM/Point Cloud to Revit Modeling
- MEP Walkthrough



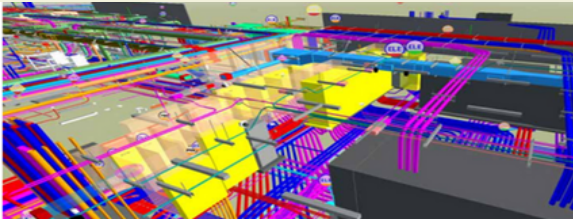
BIM for MEP



Sectors we facilitate:

- Residential Buildings
- Commercial Buildings
- Railway Stations and Airports
- Hospitals, hotels, and Resorts
- Schools and Universities
- Industrial Gas Stations
- Historical Monuments

Electrical BIM Modeling



Input - Concept Revit Model



Input - Schedule Drawings



Work Process:

MEP BIM transforms projects through collaborative 3D modeling, clash detection, and data-driven design to optimize MEP systems from conception to facility management.

Software Used:

Leveraging industry-leading BIM software like Revit MEP, AutoCAD MEP, Navisworks, Recap Pro, Fabrication CAD MEP, and Fabrication CAMDUCT, Capstone Engineering delivers cutting-edge MEP BIM solutions.

