

BIM-Driven Integrated Prefabrication Solutions (IPS):

Enhancing Safety, Productivity, and Sustainability through Optimized MEP Support Systems with Seismic Considerations

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4:00pm
–5:00pm

Power Space 1,
Hall 1

The construction industry is increasingly adopting digitalisation and industrialised construction methods to improve safety, productivity, quality and sustainability. Building Information Modelling (BIM) combined with Integrated Prefabrication Solutions (IPS) connects design, engineering, fabrication and construction through a collaborative, data-driven approach.

This technical talk will explore how BIM-driven IPS integrates 3D modelling, engineering design and off-site prefabrication to optimise MEP support systems and fastening solutions, reduce installation challenges and rework, and improve overall project efficiency.

The session will also introduce key principles of seismic design for fastening and MEP support systems, including engineering considerations, international design requirements and practical solutions for structural integrity and life safety.

Through real project case studies, attendees will discover how BIM-driven IPS can reduce installation time, material waste and embodied carbon while improving safety, quality, productivity and cost predictability — demonstrating how digital engineering, prefabrication and seismic design can help **MAKING CONSTRUCTION BETTER.**