JV TIERNEY & CO
CONSULTING ENGINEERS

MEP BIM Capabilities

Introduction:
J.V.Tierney and Co. first started looking at stand alone Building Information Modelling (BIM) in 2005 as a means of streamlining and aligning our internal procedures to produce a more efficient project design. Our first standalone BIM software products included IES-VE for thermal modelling, DIALux for lighting design and Ecotect for solar analysis. To achieve “true BIM” we felt it was necessary to use a BIM software that would tie in with these other software products while also carrying out calculations previously done through individual software packages. This made the transition from Autocad to BIM easier. Current BIM software products we are using include the following:

-Autodesk Building Design Suite Premium (Revit 2016 Suite, Navisworks, Recap etc.)

-Green Building Studio (building performance simulations)

-IES-VE (dynamic thermal simulation and CFD analysis)

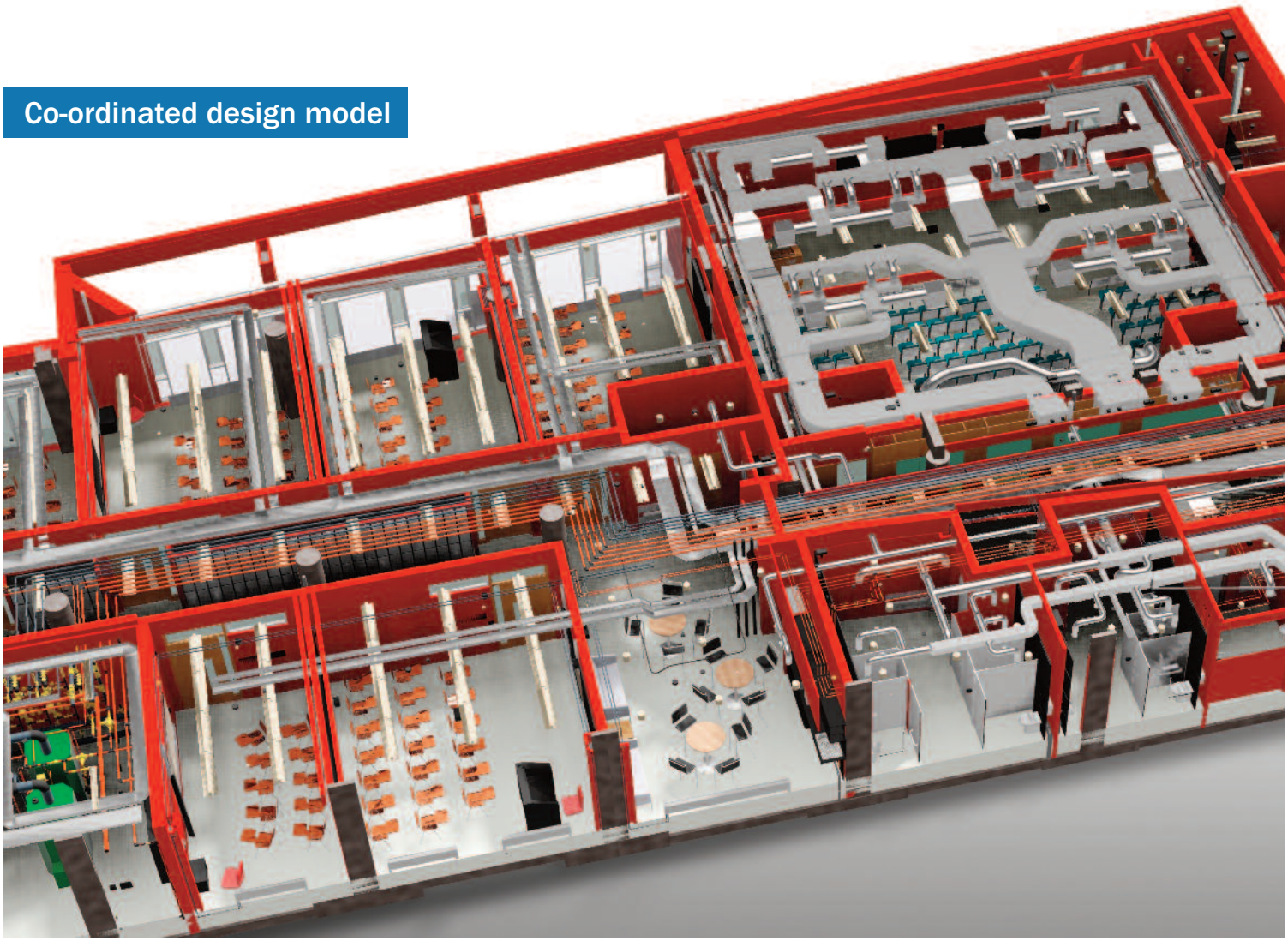
-DIALux (indoor & outdoor lighting calculations)

-COBie (information exchange for the life cycle management needed by the Facility Manager)

-Ecotect (solar analysis)

-MagiCAD (MEP calculation tool)

Co-ordinated design model



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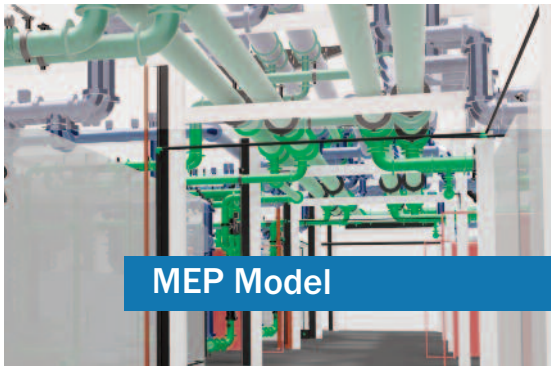
MEP BIM Capabilities

The services we provide through our BIM capabilities are as follows:

-Delivery of a BIM job in accordance with PAS1192-2.

-Thermal modelling and energy analysis

- Daylight, Sun Cast and Shadow analysis


MEP Model

Design model of Retail unit

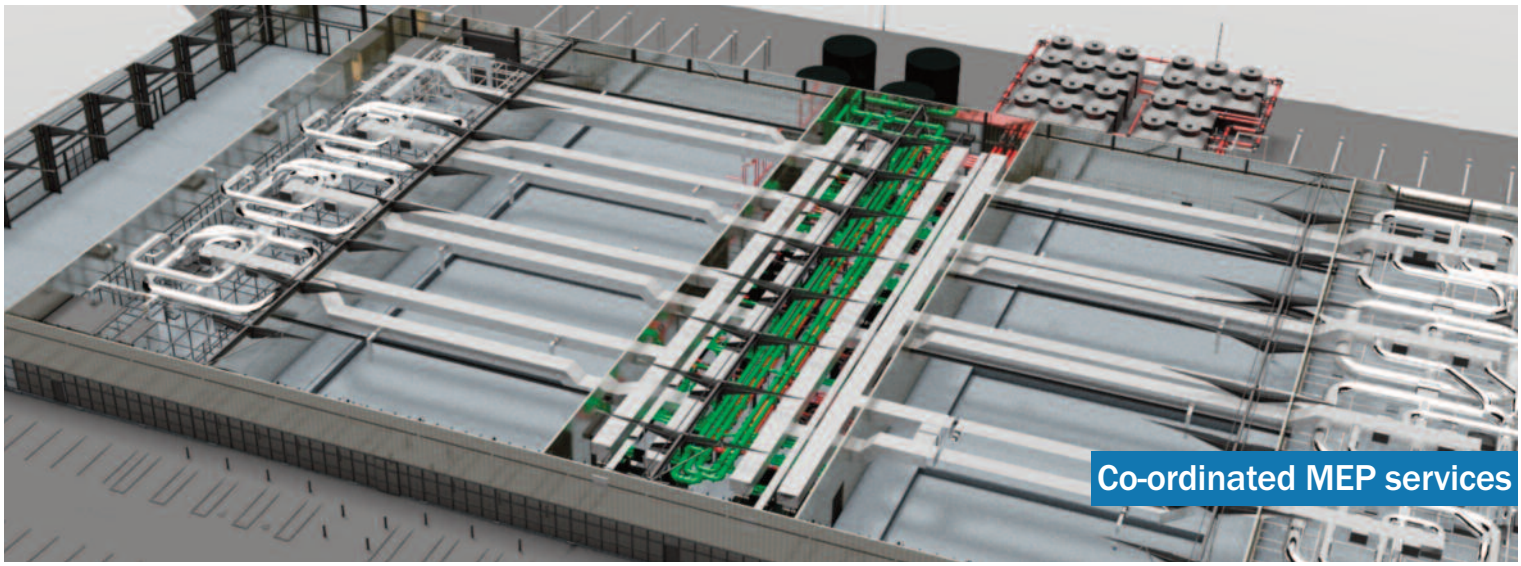
Photo of built Retail unit

- Internal and External Artificial Lighting Calculations.

- Inter-Discipline Project Co-ordination and Collaboration.

- Clash and Interference Detection.

Data centre services


Co-ordinated MEP services

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MEP BIM Capabilities

- Detailed 3-D and 2-D drawings (rendered views, sections etc).
- Mechanical System Modelling.
- Electrical Systems Modelling.

Concept of Office unit

Design model of Office unit

- Plumbing System Modelling.
- Full Scheduling of Equipment.
- BIM models created for use for both 4-D (time) and 5-D (cost) analysis.

MEP plantroom model

installed Plantroom photo

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