

Green Building

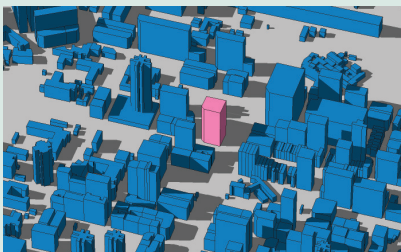
BMT provides in-house specialists in green building project management and co-ordination, sustainable building planning and design, support on green building certification (such as BEAM and LEED), and associated technical assessment and monitoring works.



In particular we have specialised assessment and modelling techniques for the green building support, including:

Daylight and Artificial Lighting

BMT provides technical assessments of overshadowing and lighting conditions for both exterior and interior environments using computer simulation.



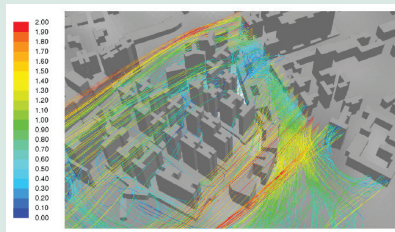
Sun Shading Study

- Overshadowing
- Sun Shading Device
- Availability of Natural Lighting
- Light Pollution
- Glare Impact

Air Ventilation

BMT has experienced specialists in assessing the impacts of building development on the local wind environment by using sophisticated computer simulation and wind tunnel testing.

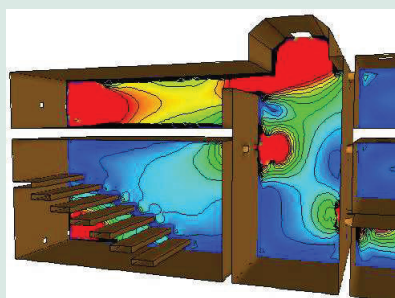
- Pedestrian Wind Environment Study
- Air Ventilation Assessment



Path Lines Plot for Air Ventilation Assessment

Microclimate and Occupant Comfort/ Thermal Comfort

BMT has extensive capability in the assessment of building microclimates resulting from air movement, thermal environment and humidity. Computational and physical modelling techniques are combined with world-class expertise and experience in fluid flow and heat transfer applications related to building physics applications in the built environment.



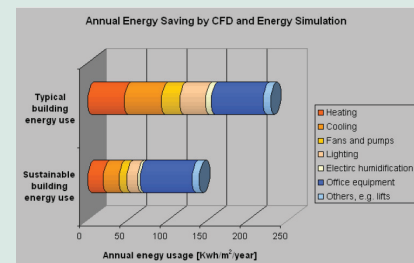
Contour Plot for Thermal Comfort Analysis

Life Cycle Analysis (LCA) and Life Cycle Costing Assessment (LCCA)

BMT assists in reviewing the life cycle of building “from cradle to grave” through consideration of the selected materials, building structures and M&E systems through the LCA tools.

Energy Simulation

BMT can analyse the energy efficiency of buildings and provide advice on building envelop and services systems for more energy efficient development.



Energy Use: Typical Building vs Sustainable Building

Acoustics Design

BMT provides appraisal and practical acoustic design support to improve the living and working environment and meet operational needs.

- Reverberation Assessment
- Airborne and Impact Noise Isolation
- Background Noise Assessment
- Vibration Control
- Noise Impact Assessment

BMT Asia Pacific Ltd

BMT Asia Pacific is an independent consultancy providing specialist environmental, risk management and economic services. From our offices across the Asia Pacific region we provide clients with innovative and independent support during project planning, design, construction and operation.

BMT Asia Pacific is part of BMT, an international design, engineering and risk management consultancy, working principally in the defence, energy and environment, marine risk and insurance, maritime transport and ports and logistics sectors. Customers are served by a staff of over 1,200 professionals located in a network of international subsidiary companies.

Websites:

www.bmtasia.com.hk

www.bmt.org

