C CBALANCE

BUILDING ENERGY MODELLING ENSURING OPTIMISED BUILDING ENERGY EFFICIENCY

Most Architecture and Engineering practices today continue to create structures that are inefficient, dismally accelerating carbon emissions and energy demand at a global scale. The practice of performing quantitative energy analyses of the buildings and their prescribed cooling strategies are yet to take off in the architectural landscape.

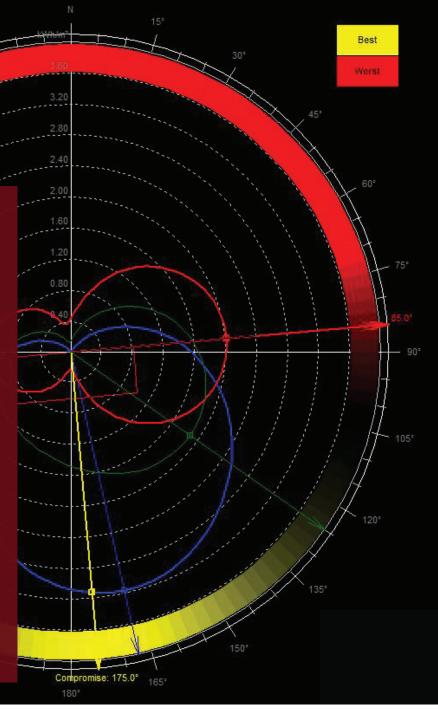
Core impediments in the industry today include:

• Lack of exposure to sustainable designs and subsequent inability to evaluate consultants

• Poorly informed client demands, cost-cutting and conventional ideologies

• Outdated and unsustainable Development Control Regulations.

• Scarcity of verified manufacturers, solution providers and experts in the field



WHAT IS ENERGY MODELLING?

Energy Modelling represents a Simulation exercise of Building Life Cycles, and analysis of energy efficiency through architectural design and appropriate technology.

WHO CAN BENEFIT?

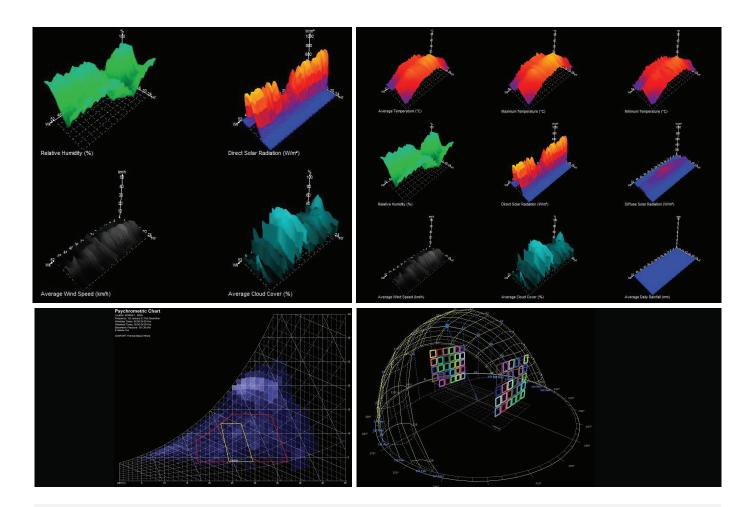
- Engineers
- Manufacturers
- Building Owners
- Building Tenants
- The Environment

ESSENTIALLY **BUILDING ENERGY MODELLING ENABLES** YOUR ORGANISATION TO DO THE FOLLOWING:

- * Optimise Building orientation
- * Maximise Day Lighting
- * Implement Passive Cooling Strategies
- * Ensure best use of Building materials: insulating materials for the Building Envelope
- * Bring in Sustainable Cooling Technology: ensuring feasibility and performance
- * Determine lifecycle payback on energy efficiency options
- * Forecast annual energy consumption

BENEFITS OF IMPLEMENTING RECOMMENDATIONS:

- * Greater tenant satisfaction through optimised thermal comfort
- * Reduced cooling load of the building and therefore reduced electricity bills
- * Aid towards obtaining Green Rating Certification
- * Established benchmark for future capital investments



GET IN TOUCH

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