

ECOLOGICALLY SUSTAINABLE DEVELOPMENT (ESD)

Earth-In-Mind is committed to sustainable design, in line with the worldwide green movement.

Earth-In-Mind provides consultancy service to design energy-efficient buildings, working with architects and consultants in building designs. To ensure occupant comfort and most importantly, efficient use of energy, Earth-In-Mind conducts investigations and various situational analysis through use of advanced software so our clients can be completely assured of our advice. Earth-In-Mind also provides Green Mark consultancy, reflecting our commitment to complement the Singapore government's (BCA) Green Master plan.

GREEN & SUSTAINABILITY CONSULTANCY

Earth-In-Mind provides consultancy services to assist our clients in obtaining certification for Green Mark, Green Building Index and LEED. The consultancy goes beyond merely obtaining the certification; it is our mission and aim to provide our clients with creative solutions in designing energy-efficient buildings that minimise environmental impacts throughout the lifecycle of the building.

GREEN CONSULTANCY

Green Mark • Green Building Index (GBI) • LEED

The BCA Green Mark Scheme was launched in January 2005 as an initiative to drive Singapore's construction industry towards more environment-friendly buildings. It is a benchmarking scheme which incorporates internationally recognized best practices in environmental design and performance. This can have positive effect on corporate image, leasing and resale value of buildings.

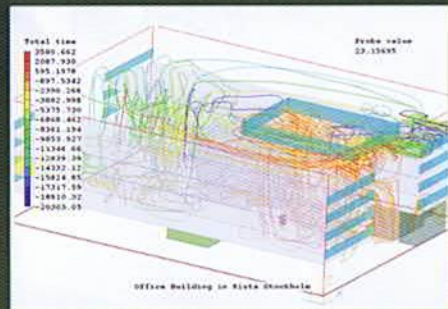
- New Buildings (Non-Residential/Residential)
- Office Interior
- Existing Buildings

The Green Building Index (GBI) is Malaysia's industry recognised green rating tool for developers and building owners to design and construct green, sustainable buildings that can provide energy savings, water savings, a healthier indoor environment, better connectivity to public transport and the adoption of recycling and greenery for their projects and reduce our impact on the environment.

- New Construction (Non-Residential/Residential)
- Existing Buildings (Non-Residential)

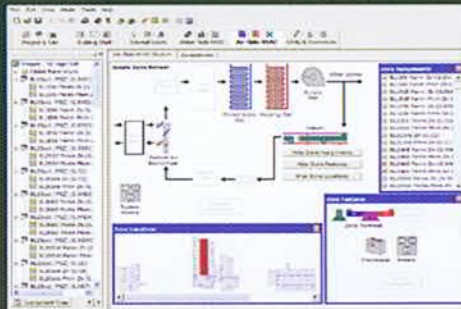
EIM provides consultancy services from initial conceptualization, design, up till completion, working hand-in-hand with the developers, architects, contractors and other partners to attain Green Mark/GBI/LEED Certification for your building, bringing recognition and added value to your establishment.

Computational Fluid Dynamics



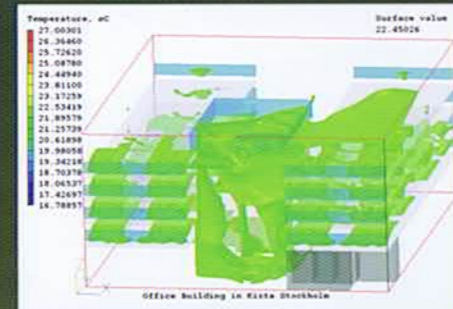
The use of CFD software to simulate fluid flows allows the prediction of parameters including temperature, humidity, velocity, pressure, and temperature. This is important in the determination of indoor and outdoor comfort as well as the evaluation of natural ventilation for both internal and external spaces.

Energy Modelling



With the use of energy modelling software to simulate building design, the energy usage of the building can be assessed. Targeted savings can be achieved by optimising the building design. Our consultants can then prioritise proposed investments and advice on strategies that maximise the building's energy usage.

Internal and External Airflow Analysis



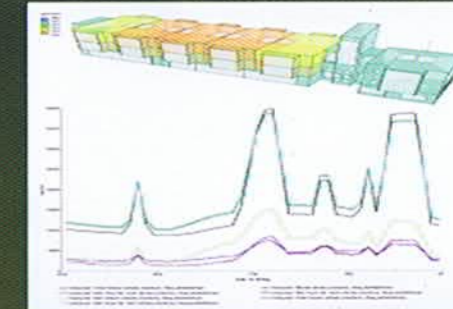
Airflow patterns occurring in and around a building obtained from the analysis can be used to assess the effectiveness of the system design and layout of the design air quality and thermal comfort. These information can then be used to fine-tune the air distribution system.

Daylight and Glare Analysis



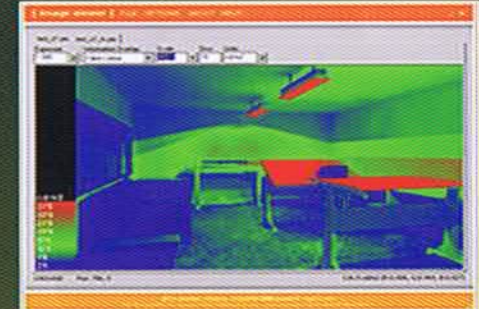
The amount of daylight distributed throughout a given space can be estimated from the analysis. The dependency and consumption on electricity can be offset by optimising the use of daylight and reducing the use of artificial lighting. The analysis also ensures overall visual comfort as well as eliminates glare.

Thermal Comfort Analysis



A thermal comfort analysis is important to ensure that the air temperature, humidity and air movement within a given space is within a comfort zone. A thermal comfort analysis affects the occupants in terms of better overall well-being; enhance concentration and productivity, as well as lowering the running cost associated with space cooling.

Solar Radiation Analysis



Solar radiation analysis allows an understanding of the impact of solar path on the interior and exterior of the building, in particular the potential impact of solar heat gain. This could assist in the design of the building facade and the determination on whether additional shading, either internal or external is required to improve energy efficiency.

ECOLOGICALLY SUSTAINABLE DESIGN