Surbana Technologies Pte Ltd

Surbana

External Airflow Modeling

Singapore

ANSYS®

CAD-IT CONSULTANTS

Overview

Surbana Technologies is the key **Technology, Consultancy and Township Management** arm of Surbana Corporation.

Our Sustainable Design Technologies Consultancy team not only examines the design from the energy perspective but adopt a more holistic view of developing a long-term sustainable design strategy that will minimize the adverse environmental impact on the development.

To achieve our objectives, we have a team of specialists comprises of Green Design Specialists (LEED Accredited Professional), Environmental Engineers, Energy Consultants and Bioclimatic Analysts to examine the various aspects of Sustainable Design and develop pragmatic design strategies that have minimal environmental impacts and economically feasible to implement.

We adopt both the Singapore Green Mark and the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) Rating System as our design guiding principles.
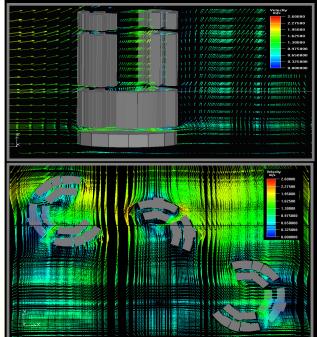
Testimonial

Airpak allows us to evaluate the Building Designs from Sustainable Technologies point of view. Airpak simulation has helped our consultant to advise in enhancing the building deign that is more energy efficient and cost effective by analyzing the impact of environmental factors such as wind ,solar on the building facade.

I am pleased with the prompt technical support provided by CADIT on unique concerns.

Ameet AA
Engineer

Initial Design Without Horizontal Openings

Horizontal Openings for Efficient Ventilation

Process

The objective of Air flow simulation was to assist our Architect to enhance the initial design of the development to optimize the natural ventilation.

The gaps within the building structure were studied for Wind Turbulence and Funnel Effect at various levels.

The primary solution results shall also be applied to the design of ventilation systems.

Benefits

Airpak's compatibility with complex drawing files makes it easy to generate a model in a short time that helps greatly in speeding up the design process. Thus drawings Importing feature come in handy specially for challenging projects with tight schedule.s

The meshing quality analyzer assists in finding any gaps in supposable conjoined objects thus avoiding solver error and notable reduction in computational simulation time.

The recently released version 3.0.12 is user friendly due to the sophisticated GUI.

www.cadit.com.sg   **www.ansys.com**