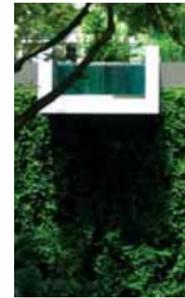


The **National Parks Board (NParks)** is responsible for providing and enhancing greenery of the Garden City of Singapore. Beyond managing public parks, the park connector network, lush roadside greenery, nature areas and nature reserves, NParks is committed to enhance the quality of life through creating memorable recreational experiences and lifestyles.

The **Centre for Urban Greenery and Ecology (CUGE)** is an initiative of NParks. Through its research and training programs, NParks advances knowledge and expertise in urban greenery and ecology in the landscape and horticulture Industry in Singapore. It works closely with industry partners to promote good work practices and create a thriving, creative, innovative and professional industry that will support Singapore's aspirations to be a City in the Garden.

The **Department of Building, National University of Singapore (NUS)** is established as a key participant in the international academic disciplines of building and construction. Since its establishment in 2000, the Department of Building has developed core competencies in Total Building Performance (TBP), with specific emphasis on integrated approaches to design and construction.

The **Building and Construction Authority (BCA)** is an agency under the Ministry of National Development, championing the development of an excellent built environment for Singapore. "Built environment" refers to buildings, structures and infrastructure in our surroundings that provide the setting for the community's activities. BCA mission is to shape a safe, high quality, sustainable and friendly built environment.



VERTICAL GREENERY FOR THE TROPICS

VERTICAL GREENERY FOR THE TROPICS

Vertical Greenery for the tropics

Vertical greenery represents a new dimension in greenery-related infrastructure, where plants are incorporated within vertical surfaces. Beyond being implemented as an aesthetics feature of buildings, vertical greenery helps to improve the overall environmental quality, reaps economical benefits and serves as a solution to increase our contact with nature.

NParks, NUS and BCA collaborated to introduce and evaluate various vertical greenery systems, validating the benefits of urban greenery within our tropical urban environment. The results are presented in this joint publication that aims to promote vertical greenery within the city, through advancing the understanding of this new nature-architecture hybrid.

We hope that this publication will be a useful resource for policy makers, city planners, developers, students and professionals in the architecture, landscape and horticulture industries, who will be able to glean a greater understanding of current trends, technical and design considerations as well as the advantages of vertical greenery.

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HOTEL NAUMI



Hotel Naumi was one of the winners of the 2008 SIA-NParks Skyrise Greenery Awards. Located on a shophouse site, it faced the challenge of space constraints for any insertion of greenery. To compensate for the lack of landscaping areas, the design response for the 10-storey façade is a vertical greenery system integrated within the design of the façade. It is made up of faceted metal perforated screens that support the growth of climbing plants along the concrete parts of the wall. The planting screens act as a second skin insulating the building from direct sunlight.

Figure 16 : (Photo courtesy of Eco.id Architects and Design Consultancy)