



FACTSHEET C

Skyrise Greenery in Singapore

Introduction

Faced with the realities of limited land, a growing population and a premium for green spaces, Singapore has to be innovative in finding urban solutions to improve liveability. Driven by Singapore's City in a Garden vision, National Parks Board (NParks) has been continually striving to create seamless and pervasive greenery across our island. Today, skyrise greenery has emerged as a viable, effective and innovative green solution which has become one of Singapore's key greening strategies.

Eight years since the inception of the Skyrise Greenery Initiative in 2009, Singapore is now recognised as an international leader and trendsetter in skyrise greenery. To date, a total of 80.5 hectares of rooftop greenery has been tracked in Singapore. This has surpassed many cities that have been promoting green roofs including American cities like Chicago, Portland and Seattle*. It is a remarkable achievement that has placed Singapore as one of the leaders in the global skyrise greenery scene.

Greenery has been incorporated into Singapore's urban landscape in a variety of ways; from roof gardens and sky terraces, to landscaped balconies and green walls. Iconic developments with impressive skyrise greenery installations include PARKROYAL on Pickering, Gardens by the Bay, Tree House condominium and the Ocean Financial Centre. The latter two developments have even been recognised for having one of the biggest green wall installations in the world, earning them a Guinness World Records for the Largest Vertical Garden in 2013 and 2014 respectively.

Skyrise greenery in Singapore is set to increase with the Sustainable Singapore Blueprint (SSB) target envisioning 200 hectares of rooftop greenery by 2030. Supported by a concerted whole-of-government approach and a comprehensive range of policies and initiatives, Singapore's skyrise greenery is poised to break norms and push frontiers of greenery provision, creating a truly liveable city.

National Archives of Singapore

Skyrise greenery policies and initiatives in Singapore

In 2009, the National Parks Board (NParks) introduced the Skyrise Greenery Incentive Scheme, which provides financial incentives to encourage the retrofitting of rooftop and vertical greenery in existing buildings. To date, from the Skyrise Greenery Incentive Scheme has played a pivotal role in greening up more than 180 existing buildings through the co-funding of skyrise greenery installations.

Complementing the Skyrise Greenery Incentive Scheme is LUSH (Landscaping for Urban Spaces and High-rises) by the Urban Redevelopment Authority (URA), where new developments and redevelopments can be eligible for incentives in the form of additional Gross Floor Area (GFA) for incorporating rooftop greenery.

The Housing & Development Board (HDB) has also been consciously weaving sustainable design into public housing developments. This includes purposeful landscaping for residents' thermal comfort and enjoyment. Since 2009, all roofs on new multi-storey carparks (MSCPs)



have been designed with roof gardens, adding to the variety of community spaces for residents' use, complementing and extending the community and green spaces for residents, while enhancing thermal comfort and offering visual relief in the built environment.

Promoting excellence

Now into its 7th run, the Skyrise Greenery Awards continues to recognise exceptional, creative and innovative skyrise greenery designs. The Awards acknowledge the team effort of developers, building owners, architects, landscape architects and landscape contractors involved throughout the skyrise greenery design and installation process.

Skyrise greenery has also been incorporated into criteria for the Landscape Excellence Assessment Framework (LEAF) Certification by the NParks and the BCA Green Mark Certification. The certifications distinguish projects with outstanding landscape provisions and sustainable building design, respectively.

International Skyrise Greenery Conference 2017

The bi-annual International Skyrise Greenery Conference (ISGC) is aimed at building knowledge, while showcasing the technical capacity of the local skyrise greenery industry on an international platform. With the theme of "Symbiosis: Intense Nature Within Cities", ISGC 2017 will serve as a multi-disciplinary platform for collaboration, bringing together global thought leaders in the field. ISGC 2017 will be held from 9 to 10 November alongside GreenUrbanScape Asia (GUSA).

Public and stakeholder outreach

A one-stop portal, <http://www.nparks.gov.sg/skyrisegreenery> incorporates project showcases, resource listings, event updates and all essential information on the range of skyrise greenery initiatives in Singapore.

Members of the public can now discover and experience first-hand a selection of skyrise greenery installations in Singapore through a series of trail maps. With skyrise greenery gaining much impetus in recent years, embarking on the trails will allow everyone to appreciate the beautiful ways skyrise greenery has been incorporated into our buildings here in Singapore.

More information can be found at <http://www.nparks.gov.sg/skyrisegreenery>

*Source: greenroofs.org surveys for green roof coverage in North America between 2004 and 2015