

## Marina One Singapore



Location  
Singapore

Built  
2017

Execution: 2011–2017

GFA: 400.000 m<sup>2</sup>

Green Building Certificates:  
LEED Platinum  
Green Mark Platinum

**supergreen®**

## The Green Heart of Singapore

Marina One in Singapore is to date the largest project by ingenhoven architects. The project was officially opened on 15th January 2018. As an international role model for living and working, Marina One makes an innovative contribution to the discourse on mega-cities, especially in tropical regions, which, in the context of increasing population and climate change, face enormous challenges.

The high-density building complex with its mix of uses extends to over 400,000 square meters and, with its group of four high-rise buildings, defines the Green Heart—a public space extending over several stories. This three-dimensional green oasis reflects the diversity of tropical flora.

Today, more than 50 percent of the world's population lives in cities. This number will increase to 70 percent in the next three decades. By 2050, the world's population will increase to nine or ten billion. In urban agglomerations, this growth cannot be accommodated without high-rise buildings. The Green Heart is the core concept for Marina One. It was designed by ingenhoven architects in close cooperation with landscape architects Gustafson Porter + Bowman. The interaction between the geometry of the buildings and the garden facilitates natural ventilation and generates an agreeable microclimate. The largest public landscaped area in

the Marina Bay Central Business District of Singapore provides living space close to nature, the usable area of which is 125 percent of the original site surface area.

Marina One comprises four high-rise buildings which accommodate office, residential and retail functions and have been rated under the Green Mark Platinum and LEED Platinum schemes. The two office towers each have a usable floor area of 175,000 square meters; the two residential towers provide 1,042 city apartments and penthouses for about 3,000 residents.

The organic shape of the building complex with its iconic louvres, and the generous planting, contribute to an improvement of the microclimate and increase biodiversity. Inspired by Asian paddy field terraces, the green center formed by the four towers—with its multi-story three-dimensional gardens—reflects the diversity of tropical flora and creates a new habitat. This Green Heart comprises over 350 different types of trees and plants, including 700 trees, on a landscaped area of 37,000 square meters. Various types of animal become part of this biological diversity. Inspired by the natural climate changes at the different vertical levels of a rainforest, the landscape architecture mimics a green valley with its variations in climate according to level. Restaurants and cafés, retail areas, a fitness club, pool, supermarket, food court, and events areas on the different open terraces not only provide products and services to the residents, office workers, and visitors—they also create places for social interaction.

The compact and efficient layout design is complemented by energy-saving ventilation systems, highly effective external solar screening devices, and glazing that reduces solar radiation into the building. Direct connections to four of Singapore's six mass rapid transport lines, bus stops, bicycle parking facilities, and electro-mobile charging stations ensure that exhaust emissions caused by private transport are significantly reduced. The color scheme of the interior and the building facade features calm and earthy bronze shades in order to support the harmonious atmosphere.

## Awards, Nominations

2018

Mipim Award 2018, Best Innovative Green Building

2016

Iconic Awards, Concept – Visionary Living & Working, Winner

FX International Interior Design Awards 2016 - Mixed-Use-Development, Finalist

WAN Future Projects Residential Award 2016

2012

Asia Pacific 2012 International Property Award  
Award Best Mixed-Use Development Singapore  
Award Best Mixed-Use Architecture Singapore  
Award Best High-Rise Architecture Singapore

## Team

Client

M+S Pte. Ltd., Singapore, a company owned by Khazanah Nasional Berhad, Kuala Lumpur, Malaysia and Temasek Holdings, Singapore

Project Management

UEM Sunrise Berhad, Malaysia  
Mapletree Investments Pte. Ltd., Singapore

Design architect

ingenhoven architects, Düsseldorf, Germany / ingenhoven LLP, Singapore

Team ingenhoven architects

Christoph Ingenhoven, Martin Reuter, Christian Kawe, Olaf Kluge, Jae Man Bae, Arzu Bastug, Mario Böttger, Mehmet Congara, Darko Cvetuljski, Justyna Fleszar, Matthias Hemmrich, Gerald Huber, Ben Hughes, Ingo Jannek, Raphael Keane, Melik Kekec, Moritz Krogmann, Rosario Ligorì, Stephan Lücke, Haitao Ma, Javier Martinez Martin, Christian Monning, Kenzo Nakakoji, Gillian Neumann, Danny Piwko, Peter Pistorius, Michael Rathgeb, Michael Reiß, Viviane Rosenbaum, Ulrike Schmälter, Markus Stöcklein, Zakiah Supahat, Jun Teraoka, Matthias Thoma, Thomas Weber, Jan Wesseling, Jhon Jairo Zamudio, Bibiana Zapf, Ivona Zelic

Project architect

architects61, Singapore

Main contractor

Joint venture company owned 60:40 by Hyundai Engineering & Construction and GS Engineering & Construction

Landscape Architecture

Gustafson Porter + Bowman, London

Collaborating Landscape Architect

ICN Design International Pte. Ltd., Singapore

Structural and M&E Engineers

BECA Carter Hollings & Ferner, Singapore

Facade consultant

**Arup, Singapore**

Lighting consultant  
**Arup, Singapore**

Residential Interior Designer  
**Axis ID, Singapore**

Quantity Surveyor  
**Langdon & Seah, Singapore**

Main contractor  
**Joint venture company owned 60:40 by Hyundai Engineering  
& Construction and GS Engineering & Construction**

Piling contractor  
**Sambo E & C, Singapore**