GREEN MARK AWARD
CONTENT

BCA GREEN MARK CHAMPION

BCA GREEN MARK FOR BUILDING

BCA GREEN MARK PEARL AWARD
CONTENT

BCA GREEN MARK CHAMPION
GREEN MARK PLATINUM CHAMPION

National University of Singapore 7

BCA GREEN MARK FOR BUILDING
GREEN MARK PLATINUM ZERO ENERGY

Keppel Bay Tower 9
International French School (Singapore) New Kindergarten Buildings 10
NTU Academic Building South 11
Frontier at National University of Singapore 12
Faculty of Engineering Block E2A at National University of Singapore 13
BCA GREEN MARK FOR NON-RESIDENTIAL BUILDING

GREEN MARK PLATINUM SUPER LOW ENERGY

Keppel Towers Redevelopment .......................................................... 14
PSA Tuas Maintenance Base ............................................................ 15
LOGOS EHUB ............................................................................... 16
Singapore Examinations and Assessment Board ......................... 17
Punggol Digital District (PDD) - CC1 - Tower 4 ......................... 18
SIA Engineering Company, Hangar 2 .......................................... 19
Mapletree Benoi Logistic Hub ....................................................... 20
## BCA GREEN MARK FOR RESIDENTIAL BUILDING

**GREEN MARK PLATINUM / GOLD<sup>PLUS</sup> SUPER LOW ENERGY**

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 Anson Road - Residential</td>
<td>21</td>
</tr>
<tr>
<td>Punggol Point Crown</td>
<td>22</td>
</tr>
<tr>
<td>JERVOIS MANSION, 卓苑</td>
<td>23</td>
</tr>
</tbody>
</table>

## BCA GREEN MARK FOR USER-CENTRIC SCHEME

**GREEN MARK PEARL AWARD**

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLQ 3</td>
<td>25</td>
</tr>
<tr>
<td>Old Hill Street Police Station</td>
<td>26</td>
</tr>
</tbody>
</table>
BCA GREEN MARK CHAMPION AWARDS

ABOUT THE AWARD
Launched in 2008, the BCA Green Mark Champion Awards recognizes developers who demonstrate strong commitment towards corporate social responsibility and who have achieved a substantial number of Green Mark buildings at Gold level or higher.

AWARD CATEGORY
• BCA Green Mark Champion
• BCA Green Mark Platinum Champion
• BCA Green Mark Platinum$^{\text{STAR}}$ Champion

CRITERIA

<table>
<thead>
<tr>
<th>Total Number of Buildings Rated</th>
<th>BCA Green Mark Champion</th>
<th>BCA Green Mark Platinum Champion</th>
<th>BCA Green Mark Platinum$^{\text{STAR}}$ Champion</th>
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</thead>
<tbody>
<tr>
<td>Green Mark Gold and Above</td>
<td>At least 10</td>
<td>At least 50</td>
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<tr>
<td>Green Mark Gold$^{\text{PLUS}}$ and above</td>
<td>At least 6</td>
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<tr>
<td>Green Mark Platinum</td>
<td>At least 3</td>
<td>At least 15</td>
<td>At least 50</td>
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</tbody>
</table>
National University of Singapore

Green Mark Platinum Champion

• In its campus development and rejuvenation, the National University of Singapore (NUS) adopts sustainable design and construction strategies to achieve low carbon footprint as part of the university’s strive towards a Carbon Neutral campus by 2030.

• To achieve the Green Mark Platinum Champion, NUS’ efforts can be classified into three broad categories:
  • Incorporation of innovative environmental strategies into building projects
  • Sustainable life cycle approach in facilities maintenance
  • Outreach to staff and students to adopt environmental habits

• In spite of the 6% increase in GFA since 2016, the University’s energy use and water consumption have decreased by 4% and 3% respectively as at FY2019. Correspondingly, the campus Energy Use Intensity (EUI), which measures energy consumption per GFA, and Water Efficiency Index (WEI), which measures water usage per GFA, have both decreased by 8% respectively since 2016.

• The reduction in energy consumption can largely be attributed to the ongoing multi-year upgrading and consolidation of chiller plants, optimization of air conditioning systems control and setpoints, green procurement of laboratory equipment with higher energy efficiency such as ULT freezers and fumehood, green laboratory program to encourage adoption of sustainable practices as well as the project to install a solar photovoltaic system of at least 9 MWp across the whole campus.

Key achievements:
• 50 developments have been awarded Gold and above certifications, including 40 Platinum, 6 GoldPLUS and 4 Gold awards.
The **SLE programme** is the next wave of Singapore’s green building movement. SLE buildings feature best-in-class energy efficiency, the use of on-site and offsite renewable energy and other intelligent energy management strategies.

**GREEN MARK SLE CERTIFICATION**

The Green Mark for Super Low Energy Buildings (GM SLE) Certification recognises projects that are on the path to net zero energy or have gone beyond net zero to be a positive energy building.

**GREEN MARK SLE CATEGORIES**

<table>
<thead>
<tr>
<th>Categories</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super Low Energy Building (SLE)</td>
<td>Best-in-class energy performing building that achieves at least 40%* energy savings based on prevailing code. *(equivalent to 60% energy saving above the 2005 building code)</td>
</tr>
<tr>
<td>Zero Energy Building (ZE)</td>
<td>Best-in-class energy performing building with all energy consumption, including plug load, supplied from renewable sources</td>
</tr>
<tr>
<td>Positive Energy Building (PE)</td>
<td>Best-in-class energy performing building with 115% of energy consumption, including plug load, supplied from renewable sources</td>
</tr>
</tbody>
</table>
Keppel Bay Tower
Existing Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM ZERO ENERGY BUILDING

- Chiller plant system efficiency of 0.577 kW/RT
- The building is 100% LEDs lighted
- Photovoltaics (PV) system on-site at 97 kWp
- Energy efficient air distribution system, 45% more efficient than best-in-class conventional technologies
- Smart lighting system
- Intelligent building control system
- Remaining energy consumption offset by RECs generated in Singapore

Client/Developer Keppel Land
Facility Manager Engie Services Singapore Pte Ltd
ESCO Johnson Controls (S) Pte Ltd
ESD/ Green Consultant Johnson Controls (S) Pte Ltd
NTU Academic Building South

New Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM ZERO ENERGY BUILDING

- High performance façade with minimized heat gain through adoption of glass with low shading coefficient and envelope materials with low thermal transmittance
- Bicycle lots beyond LTA-stipulated limits are provided
- Chiller plant with high efficiency of about 0.565kW/RT used
- Less energy intensive passive displacement ventilation systems are used for majority of air-conditioned spaces
- Areas with major water usage have private water meters connected to the building management system for leak detection
- Extensive use of Green Label products with higher recycled content and lower carbon footprint throughout the development
- Occupancy sensors are installed for efficient air-conditioning demand control

Client/Developer: Nanyang Technological University
Architect: RSP Architects Planners & Engineers (Pte) Ltd in collaboration with Toyo Ito & Associates, Architects
M&E Engineer: Squire Mech Pte Ltd
Structural Engineer: Aurecon Singapore (Pte) Ltd
Quantity Surveyor: WT Partnership (S) Pte Ltd
Main Contractor: Newcon Builders Pte Ltd
Landscape Consultant: STX Landscape Architects
ESD / Green Consultant: Building System & Diagnostics Pte Ltd
International French School (Singapore) New Kindergarten Buildings

New Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM ZERO ENERGY BUILDING

- Hybrid cooling for kindergarten classroom villas to provide cooling at higher set point of 27°C and with elevated air circulation via ceiling fans
- Good daylighting design for classrooms, ancillary offices, and library with high spectral selectivity glazing solution, i.e., higher visual light transmission and less solar heat gain. Spaces provided with photosensors
- 100% LED light fixtures provided with motion sensors and occupancy sensors for KG classroom villas and transit areas
- Existing chiller plant used with additional one chiller with overall system efficiency of 0.64 kW/RT
- To be a Net Zero Energy Building, PV panels with estimated power generation of 300 MWh to be installed on site
- All water fittings rated excellent under WELS*
- In order to optimize receptacle loads, main server room re-located to another building

* WELS stands for Water Efficiency Labelling Scheme

Developer: International French School (Singapore)
Architect: Aedas Pte Ltd
M&E Engineer: WSP Consultancy Pte Ltd
Structural Engineer: Ronnie & Koh Consultants Pte Ltd
Quantity Surveyor: AECOM Cost Consulting and Project Management (Singapore) Pte Ltd
Landscape Consultant: SitecProductix Private Ltd
ESD / Green Consultant: ERI@NTU
Frontier at National University of Singapore
Existing Non-Residential Building (GM 2021 In Operation)

GREEN MARK AWARD FOR BUILDINGS | PLATINUM ZERO ENERGY BUILDING (RE-CERT)

• Energy efficient water cooled chiller plant
• Naturally ventilated dining area
• Energy efficient LED lighting for all areas except mechanical spaces, achieving 56% in lighting energy savings
• Extensive use of WELS excellent products for all water fittings
• Wide use of SGLS* and SGBC certified green products
• Extensive use of green concrete including recycled concrete aggregates and washed copper slag
• Comprehensive campus-wide recycling program, including segregation and recycling of food waste at canteen

*SGLS stands for Singapore Green Labelling Scheme

Developer: National University of Singapore
Facility Manager: NUS Office of Facilities Management
ESD/Green Consultant: CPG Consultants Pte Ltd (CPGreen)
Architect: AR43 Architects Pte Ltd
Structural Engineer: Hainal-Konyi Pte Ltd
M&E Engineer: Parsons Brinkerhoff Pte Ltd
Quantity Surveyor: Rider Levett Bucknall LLP
Faculty of Engineering Block E2A at National University of Singapore

Existing Non-Residential Building (GM 2021 In Operation)

GREEN MARK AWARD FOR BUILDINGS | PLATINUM ZERO ENERGY BUILDING (RE-CERT)

- Energy efficient water cooled chiller plant
- Energy efficient LED lighting for all areas except mechanical spaces, achieving over 40% in lighting energy savings
- Vertical greenery and rooftop greenery
- Lighting with motion sensor for all toilets and staircases, select laboratories and corridors
- Extensive use of certified sustainable products including low VOC paints and finishes
- NEWater for cooling towers
- Comprehensive campus-wide recycling program

Developer
National University of Singapore

Facility Manager
NUS Office of Facilities Management

ESD/Green Consultant
CPG Consultants Pte Ltd (CPGreen)

Architect
AR43 Architects Pte Ltd

Structural Engineer
AECOM Singapore Pte Ltd

M&E Engineer
AUP Consultants Pte Ltd

Quantity Surveyor
CPG Consultants Pte Ltd
Keppel Towers Redevelopment
New Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM SUPER LOW ENERGY BUILDING

• Super low Total Air-Con Design System Efficiency (TSE) < 0.6 kW/RT through innovative technologies such as:
  • Technology 1 – Integrated control Dual Temperature Chiller system with optimized compressor impeller
  • Technology 2 – Dual Coil Single Fan integrated High Efficiency AHU
  • Technology 3 – Digitization in building industry incorporating EMS, BMS, Security and FMS
• Use of integrative BIM management and cost effective construction method to increase buildability and constructability
PSA Tuas Maintenance Base

New Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM SUPER LOW ENERGY BUILDING

- SGBC certified thermal break for Admin Block curtain wall
- Passive Displacement Cooling with fresh air injection
- Low energy VAV-FCU system
- Precision secondary pumping system for Admin Block chiller system
- Hybrid evaporative cooling system for Admin canteen.
- Building attached PV at Admin Building and roof PV panels at all other buildings
- Smart lighting and indoor air quality system
- Model predictive control & intelligent building management system for control optimisation

Client/Developer PSA Corporation Ltd
Architect ID Architects Pte Ltd
M&E Engineer PDC Consulting Engineers Pte Ltd
Structural Engineer KCL Consultants Pte Ltd
Quantity Surveyor PSA Corporation Ltd
Main Contractor Chan Rong Fen Building Construction Pte Ltd
ESD / Green Consultant GreenA Consultants Pte Ltd
<table>
<thead>
<tr>
<th>Client/ Developer</th>
<th>LOGOS SE ASIA PTE LTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Manager</td>
<td>Faithful+Gould Pte Ltd</td>
</tr>
<tr>
<td>Architect</td>
<td>Morrow Architects &amp; Planners Pte Ltd</td>
</tr>
<tr>
<td>M&amp;E Engineer</td>
<td>J Roger Preston (S) Pte Ltd</td>
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<tr>
<td>Structural Engineer</td>
<td>Thymn Pte Ltd</td>
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<tr>
<td>Quantity Surveyor</td>
<td>Currie &amp; Brown (Singapore) Pte Ltd</td>
</tr>
<tr>
<td>Main Contractor</td>
<td>Precise Development Pte Ltd</td>
</tr>
<tr>
<td>ESD / Green Consultant</td>
<td>Building System &amp; Diagnostics Pte Ltd</td>
</tr>
</tbody>
</table>

- Bicycle lots beyond LTA-stipulated limits provided
- Building designed to have high-performance façade with minimized heat gain through adoption of glass with low shading coefficient and insulation
- The landscape populated by lush native greenery and robust drought-tolerant plants
- Areas with major water usage equipped with private meters connected to building management system for leak detection
- Green Label products with higher recycled content and lower carbon footprint used extensively throughout the development
- To ensure occupants’ health and well-being, indoor paints and materials used have low volatile organic compound (VOC) content
- Trending of water and energy consumption displayed on a dashboard to promote awareness and encourage reduction and conservation of water and energy
Singapore Examinations and Assessment Board

New Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM SUPER LOW ENERGY BUILDING

- Biophilic design with sky gardens, achieved overall Green Plot Ratio of 8.48
- Passive architectural design to enhance natural ventilation to lower the building cooling demand
- Hybrid cooling for office spaces and multi-purpose rooms
- Energy efficient chiller plant with efficiency of 0.56kW/RT
- Integrated building management system
- Energy efficient lighting system with more than 50% energy savings from SS baseline
- High performing building envelope with ETTV of 21.77 W/m²
- Use of rainwater to reduce potable water demand by 20%
- Efficient use of water through 100% “Excellent” WELS water fittings
Punggol Digital District (PDD) CC1 – Tower 4
New Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM SUPER LOW ENERGY BUILDING

- Passively designed façade with self-shading. High performance insulated façade with Low-E double glazing. Services and circulation spaces located on East and West facades
- Served by District Cooling System with efficiency < 0.65 kW/RT
- CO2 sensors provided to control the amount of fresh air, achieving the airside efficiency of 0.15 kW/RT
- Minimum use of concrete with CUI less than 0.30, Mass-Engineered Timber used as major building material that reduces embodied carbon significantly
- The whole development served by pneumatic waste conveyance system
- SMART sensors connected to building management system, monitoring and optimizing energy usage
- Dedicated submetering for each energy use such as AC, lighting, plug loads, lifts, etc.

Client/ Developer  JTC Corporation
Architect         WOHA Architects Pte Ltd
M&E Engineer      BECA Carter Hollings & Ferner (S.E.Asia)
Structural Engineer  KTP Consultants Pte Ltd
Quantity Surveyor  AECOM Pte Ltd
Main Contractor    Woh Hup Pte Ltd
Landscape Consultant Ramboll Studio Dreiseitl Pte Ltd
ESD / Green Consultant  Web Earth Pte Ltd
SIA Engineering Company, Hangar 2
Existing Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM SUPER LOW ENERGY BUILDING

- Energy efficiency chiller plant with efficiency of 0.62 kW/RT
- Provision of permanent instrumentation to monitor the chiller plant system operating efficiency
- Awarded Water Efficient Building. Water fittings comply with PUB Water Efficiency Labelling Scheme (WELS)
- Lifts with variable voltage variable frequency motor drive, sleep mode features
- Green guides disseminated among occupants to create environmental awareness as well as to promote & encourage waste minimization and recycling among occupants

Client/ Developer: SIA Engineering Company Limited
Facility Manager: Synergy FMI
ESCO: Johnson Controls (S) Pte Ltd
ESD / Green Consultant: Johnson Controls (S) Pte Ltd
Mapletree Benoi Logistic Hub

Existing Non-Residential Building

GREEN MARK AWARD FOR BUILDINGS | PLATINUM SUPER LOW ENERGY BUILDING (RE-CERT)

- New rooftop solar system of 2,233 kWp
- On-site renewable energy replaced up to 60% of the total building energy consumption and about 38% excess renewable energy sold to grid
- Roof with skylight stripe integrated with photosensor to reduce artificial lighting consumption
- Daylight and CFD simulation conducted to optimize during base building design
- Highly efficient layout & fitting types with high bay motion sensor control
- Further enhance base built lighting design by replacing T5 lightings at staircase and driveways to LED lightings with motion sensors to improve operational efficiency and further reduce building energy consumption

Client/ Developer

HSBC Institutional Trust Services (S) Ltd
As Trustee of Mapletree Logistics Trust

Facility Manager

Mapletree Property Management Pte Ltd

ESD / Green Consultant

Building System and Diagnostics Pte Ltd
GREEN MARK AWARD FOR BUILDINGS | PLATINUM SUPER LOW ENERGY RESIDENTIAL BUILDING

- Low RETV of 19.09 W/m² with good glass selection and shading devices to reduce overall building heat gain
- Installation of energy efficient air-conditioning systems with 5 ticks rating for all dwelling units
- Use of 100% energy efficient LED lighting with demand controls to achieve high energy savings compared to baseline
- Utilization of renewable solar energy
- Use of 100% PUB WELS 2 ticks and above water fittings to ensure water efficiency
- Lush landscape decks and pockets of greenery to improve occupant wellbeing

Client/Developer
Hong Leong Properties Pte Ltd
(A wholly-owned subsidiary of City Developments Limited)

Architect
Nikken Sekkei Ltd (Design Consultant) & ADDP Architects LLP (Project Architect)

M&E Engineer
Squire Mech Pte Ltd

Structural Engineer
Meinhardt (Singapore) Pte Ltd

Quantity Surveyor
AECOM Cost Consulting And Project Management (Singapore) Pte Ltd

Landscape Consultant
Ecoplan Asia Pte Ltd

ESD / Green Consultant
Building System and Diagnostics Pte Ltd
Punggol Point Crown

New Residential Building

GREEN MARK AWARD FOR BUILDINGS | GOLDPLUS SUPER LOW ENERGY RESIDENTIAL BUILDING

- Biophilic design with extensive greenery provision, achieved Green Plot Ratio of 8.7
- Use of Pneumatic Waste Collection & Disposal System (PWCS)
- A low heat gain facade (RETV) of average 18.08 W/m²
- Ventilation performance - 65% of living room and bedroom spaces with unobstructed air flow
- Lifts equipped with regenerative drive feature
- 80% savings in lighting power budget using LED equipped with photosensors and motion sensors
- Smart lighting system with remote monitoring & control, low latency sensors, fault reporting to provide energy savings during operation
- Estimated energy savings of 1,427,570 kWh/year, which is equivalent to power 305 households/year.
- Carbon Emission Reduction of 714 Tonne/year, which is equivalent to planting 4,282 trees

Client/Developer:
Housing and Development Board

Project Manager:
SIPM Consultants Pte Ltd

Architect:
3PA Pte Ltd

M&E Engineer:
United Project Consultants Pte Ltd

Structural Engineer:
LSW Consulting Engineers Pte Ltd

Quantity Surveyor:
WT Partnership Ltd

Main Contractor:
Expand Construction Pte Ltd

Landscape Consultant:
Stephen Caffyn Landscape Design

ESD / Green Consultant:
GreenA Consultants Pte Ltd
JERVOIS MANSION, 卓苑

New Residential Building

GREEN MARK AWARD FOR BUILDINGS | GOLDPLUS SUPER LOW ENERGY RESIDENTIAL BUILDING

- Good placement of buildings that encourages air flow into the units
- Good layout design that encourages cross-ventilation within units
- Low RETV of 17.5 W/m² with the installation of grey tinted laminated glass with low-e coating
- Energy efficient air-conditioning systems with NEA 5 ticks rating for all dwelling units
- 100% Use of energy efficient LED lighting with demand control
- Renewable solar energy on the roof of the development
- 100% PUB WELS 2 ticks and above water fittings
- Good biophilic design with lush greenery and bio-ponds that improve residents’ fitness level, health and wellbeing
- Delicately designed metal grille entry door
- A smart hub provided to encourage the use of wireless smart home systems
- Rooftop gardens to reduce the dissipation of heat into the living quarters
- Bicycle lots and covered walkways designed to promote cycling and walking
- Green materials are used to reduce carbon footprint and recycling bins for waste recycling
The BCA Green Mark Pearl Award is a prestigious award that recognizes the strong commitment of building owners/landlords and tenant organizations of the same project or building working in tandem to achieve greater environmental sustainability.

Held annually, the Award is given to landlords who helped their tenants to secure Green Mark certification for their tenanted premises. To be eligible for this Award, one of the key requirements is for at least 50% of the tenanted space within the building to be Green Mark certified, within a base building which is GM GoldPLUS or higher. There are two tiers of the Award namely:

• Green Mark Pearl Award
• Green Mark Pearl Prestige Award

The Awards are given out for the following three building types:

• Commercial offices
• Retail malls
• Business park developments
Lendlease’s Paya Lebar Quarter 3 (PLQ 3) is a $3.7bn mixed-use development that sits in the Paya Lebar central precinct at the heart of Singapore’s masterplan, bridging as a dynamic regional business and lifestyle hub between the CBD and the Changi Airport. The 3.9-hectare site comprises two adjacent parcels with 7 buildings, including 1 retail development, 3 residential towers and 3 office buildings, of which PLQ 3 is one. Lush green spaces, with planting of 300% more trees than were originally on site, created a wholesome and inclusive community space.

**Designed with a “people-first” approach which addresses human health and wellness needs, the workplace ecosystem at PLQ integrates other lifestyle activities to connect people beyond their workspace, at various cultural, recreational and nature spots for the benefit of a social, happy, healthy, and productive workforce.**

**Key sustainability accolades of the project:**

- **Climate Resilient Design:** First certified mixed-use private development under the ABC Waters (Active Beautiful Clean) programme, with specific features such as rain gardens and rainwater detention systems to filter stormwater before discharge.

- **Top-tier Green Building Ratings:** BCA Green Mark Platinum for Non-Residential Buildings NRB 2015 and first office development in Singapore pre-certified with WELL Rating

- **Tenant Engagement:** 100% of tenants on Green Lease, complemented with an in-house Green Lease Tracker, Green Procurement Guide and Green Fit-out Guide to support tenants in their fit-out journey. Tenants actively participate in 3R initiatives like Food Waste Reduction Week, Earth Hour Participation.

- **Walkability & Green Mobility:** Promoting walkability around the neighbourhood and a sharing economy, umbrella-sharing was implemented at PLQ 3 for building users. Other features include safe cycling infrastructure, end-of-trip facilities for tenants, seamless connections to Paya Lebar MRT station and provision of EV charging stations.
Old Hill Street Police Station

Green Mark Pearl Award

- Ministry of Communications and Information (MCI) is housed in the Old Hill Street Police Station (OHSPS), a 6-storey national monument. MCI achieved the BCA Green Mark (GM) Platinum Award for OHSPS under the Existing Non-Residential Building 2017 scheme and was recertified in 2020. MCI also achieved ASEAN Energy Efficiency Award in 2019 and was awarded the Best Energy Efficiency Practices in the Public Sector in 2020 by NEA.

- Over the last few years, MCI’s sustainability strategies reduced its energy consumption by 24% from 2018 to 2020. The rooftop air-cooled chillers were replaced with water-cooled chillers and solar panels were also installed on the rooftop to harvest solar energy. Within the building, some features included the use of onsite compost to fertilise landscape and real-time monitoring of temperature and CO2 level within the indoor spaces. The air-conditioning and mechanical ventilation systems for specific zones were also pre-scheduled and the lights were replaced by LED lights with photosensors and motion sensors.

- To supplement its green efforts, MCI conducts half-yearly co-sharing of sustainability best practices with its stakeholders. This is done through sharing of resources and exchanging of ideas on environmental sustainability with Ministry of Culture, Community and Youth (MCCY), which is also housed in OHSPS. MCI encourages staff to go green by sharing green tips through the intranet and ‘Missy Leafy’, our eco-ambassador mascot to remind staff to go green.

- MCI is also constantly improving and exploring alternative methods to achieve its sustainability targets without compromising the stakeholders’ satisfaction and indoor environmental quality. As part of the continuous improvement plan and in line with the Singapore Green Plan 2030, MCI has also started exploring initiatives for OHSPS to be certified as a Green Mark Super Low Energy Building.
For more information on developments certified this year, please visit:
https://sleb.sg/Building/GreenMarkBuildingsDirectory