

Falling Forward.

**Strategic priorities for a stronger
emergence in the post-COVID setting.**



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INDUSTRY NEWS

2020 Review and BCA's Plans for 2021

The Built Environment Tripartite Committee was provided with a summary of BCA's efforts in 2020 in light of the COVID-19 situation and the strategic priorities for 2021 to bring the sector forward in a post-COVID setting.

COVID-19 was unprecedented, and the Built Environment sector was among one of the hardest-hit sectors. The immediate priorities for the Built Environment were to contain the spread of COVID-19 among foreign workers and the larger community, restart the industry safely and sustain it, and help firms to tide over the crisis.

A cross-functional integrated approach was taken within BCA, across ministries such as MOM and MOM, in partnership with the industry.

This included policy planning (e.g. COVIDSafe restart for construction, decanting and swabbing policies), operations (e.g. Audit and inspection, cohorting of workers, rostered routine testing for workers, and staggered rest days), and support (e.g. \$1.36 billion construction support package, COTMA bill, SMO/SDO training, webinars and engagements).

BCA's priority was to contain the spread of COVID-19 among foreign workers and the larger community. Infection rates are now low in the sector, and there was a decline in the number of COVID-positive cases in the construction sector from August to December 2020. Since mid-October, there was no worksite spread of cases and just 2 COVID-positive cases in December 2020.

Industry News/2020 Review and BCA's Plans for 2021

The next priority was to restart our industry safely and sustain it. More than 160,000 workers across 49 dormitories were cohorted and rostered routine testing was implemented for more than 303,300 workers with 99% compliance rates.

BCA also conducted COVID-Safe Training Programmes for close to 375,000 Built Environment personnel, Safe Management Officers, and Safe Distancing Officers. A robust risk-based Audit and Inspection regime was put in place, with over 20,000 inspections across 4400 worksites, using technologies for on-site sections such as the BuildSG-CovidSafe Platform (CSP).

The BluePass contact tracing system was also planned and implemented. These efforts resulted in more than 5000 construction projects to resume.

To help construction firms tide over and emerge stronger from the crisis, 20 industry engagements were chaired by the Ministers and Ministers-of State since June 2020, as well as 24 webinars, in partnership with industry trade associations and chambers for close to 30,000 participants.

Restart Support Centers were set up to ensure that everyone could obtain assistance on restarting their construction projects. BCA's Telegram channel now has over 10,600 subscribers, increasing its social media footprint and allowing the Authority to digitally reach out to more stakeholders.

To cushion the financial impact of COVID-19, BCA leaned forward with a \$1.36 billion Construction Support Package. In collaboration with MOM, MOH and MOF, Foreign Worker Levy waivers and rebates were extended for the construction sector for up to two months. These helped offset additional compliance cost due to COVID-19, including the rostered routine testing for construction workers.

For local employees in the Built Environment, the Jobs Support Scheme was increased from 25% to 75%.

The COVID-19 Temporary Measures Act (COTMA) was also enacted, allowing a universal extension of time of 122 days for construction projects and requiring the co-sharing of additional non-manpower related qualifying costs between contracting parties.

The Built Environment sector is transiting into the new normal, with the pace of construction restart picking up and concerns on labour shortage being addressed. New projects in compliance with COVIDSafe requirements can commence construction, and all construction workers have been approved to restart work.

Monthly ready-mixed concrete production level has now resumed to about 90% of the pre-COVID-19 levels. Border restrictions were relaxed to allow new and existing work passes to enter Singapore since 7 December 2020. The Government will share details on the vaccination scheme when ready, with the cost of vaccination being borne by the Government for all Singaporeans and long-term residents, including work pass holders.

The COVID pandemic has exposed the Built Environment sector's vulnerability to external shocks, yet also presented many growth opportunities to seize.

BCA's Strategic Priorities for a Stronger Emergence in the Post-COVID Setting

To emerge stronger in a post-COVID setting, BCA outlined four strategic priorities.

The first strategic priority for 2021 is to transform regulations to shape a safe, high quality, sustainable and friendly Built Environment.

Industry News/2020 Review and BCA's Plans for 2021

Data and technology will be leveraged on for regulations. CORENET 2.0 will be launched in 2021 with key features such as a new project dashboard to improve transparency, upfront validations prior to submission to reduce the number of rejections, and the merger of the TOP portal into the CORENET system.

CORENET X will be developed as the collaboration platform for a one-stop integrated shopfront for construction approvals. A Pilot Automated Model Check will also be tested on selected projects.

Smart Inspections will help improve regulatory processes, with the use of data analytics and technology to streamline regulatory site inspections, use of BuildSG COVIDSafe Platform (CSP) to minimize the risk of COVID re-infections at worksites, and the adoption of a smart drone system, with diagnostics and AI technologies for automated defects detection for façades.

BCA will also look to implement smarter approval workflows by streamlining multiple approvals into a concurrent single submission and profiling project parties through a quantitative framework to introduce a differentiated approach in the approvals.

The second strategic priority for 2021 is to have the Industry Transformation Map continue to chart the course ahead for growth and competitiveness. The vision is that the Built Environment would be an advanced and integrated sector consisting of progressive and collaborative firms, with good jobs for Singaporeans.

In 2020, we remained on track to achieve targets for DfMA, Green Buildings, IDD and FM, and also achieved significant progress working with tripartite partners by launching the Skills Framework for the Built Environment sector at the digital International Built Environment Week 2020.

Industry News/2020 Review and BCA's Plans for 2021

New strategies in 2021 will continue the ITM's vision, such as the launch of the Singapore Green Building Master Plan (SGBMP) and the implementation of Green Mark-MIDAS for public and private sector projects. Dedicated efforts will also be made to attract, retain and upskill our workforce to take on good jobs in the Built Environment sector.

The third strategic priority for 2021 is for Science and Technology to remain the key enabler for firms to navigate the new normal and strengthen competitiveness.

In the Digitalisation area, commercial digital platforms will be engaged to implement the Common Data Environment (CDE) Data Standard. In the area of Advanced Manufacturing and Robotics, a BE Robotics Roadmap will be launched alongside the development of robotics ecosystems and partnerships through the BE Robotics R&D programme.

In the area of Sustainable Urban Systems, the Green Building Innovation Cluster (GBIC) programme will be used to drive the productization and deployment of green technologies. New green building technologies will also be pioneered and test-bedded.

The final strategic priority for 2021 is to accelerate the transformation of the Built Environment through industry partnership. BCA recognizes that our sector needs to work together to accelerate the transformation to seize growth opportunities and build resilience in a post-COVID setting.

Industry News/2020 Review and BCA's Plans for 2021

The ITM will be accelerated and new growth areas will be identified. In consultation with industry partners such as SIBL, ITM strategies will be reviewed and action plans will be acceleration.

To reduce vulnerabilities, the sector will be grown as a whole, with the adoption of a new developer-led alliance approach to enable co-creation and co-delivery of industry transformation by all stakeholders, from developers to consultants, main contractors and sub-contractors.

To emerge stronger in a post-COVID-19 setting, BCA is committed to working with the industry to accelerate the ITM to jointly overcome new challenges, build resilience and size growth opportunities.

Source of information: SIBL representatives attended the Built Environment Tripartite Committee meeting on 22 January 2021

Funding Available for Pilot IDD Projects

The Digitalising Built Environment Alliance for Action (AfA) was set up under the Emerging Stronger Taskforce in June 2020 to drive digitalization in the Built Environment by establishing industry-wide Common Data Environment (CDE) standards and driving the adoption of Digital Platforms.

Led by Mr Lim Ming Ya, Chairman of the Singapore Business Federation, this project involves the Public Sector, Trade Associations and Chambers (TACs), and major clients, such as the Changi Airport Group, Capitaland, and City Developments Limited.

The initiative consists of 2 workstreams: the Digital Platform Evaluation Committee and the Industry Digital Partnership. The industry's needs and challenges for digitalization will be identified, and digital platforms will be selected to help validate the proposed CDE standard.

300 firms will be identified to adopt these digital platforms, with public and private sector clients to stipulate essential digitalization processes and digital platforms in their projects. A study will be conducted to define the important digital skills for individuals.

A "Queen Bee" approach will be taken to achieve the widespread adoption of digitalization in Built Environment project delivery. Through this "Queen Bee" approach, more firms can kickstart digitalization by getting them on board the client's CDE and selected digital platforms.

Industry News/Funding Available for Pilot IDD Projects

AfA members have been asked to nominate pilot projects and bring onboard supply chain partners to participate in this exercise. At the time of writing, a total of 45 developers have nominated 48 projects as part of the target 40-60 IDD demonstration projects.

AfA members with or without pilot projects will be invited to attend the IDD Training Programme by BCA Academy. It covers CDE Data Standards, Digital Platforms and Essential IDD Scopes. The 2-stage training course is mapped to the Digital Technical Skills and Competencies (TSCs) of the Built Environment Skills Framework, which sets the yardstick for the industry to build digital competency.

From the most commonly practiced use cases, a list of 10 Essential Digital Use Cases was identified for projects new to IDD to start with. The use cases run across the project lifecycle from Design to Fabrication to Construction to Asset Management.

They are:

- Digital Request for Information (RFI)
- Integrated Concurrent Engineering (ICE) Meetings
- Visualisation and design checks
- Digital submission and approval
- BIM-based tender documentation
- Digital logistics
- Digital construction scheduling and sequencing
- Digital progress monitoring
- Digital QA/QC inspections
- Digital defects management

The full list of 35 digital use cases can be found in the CDE standard, which also includes the definitions, details and digital deliverables of the above 10 Essential Digital Use Cases.

Industry News/Funding Available for Pilot IDD Projects

Specific typology data content will be led by the clients, with Commercial projects led by REDAS, Residential projects led by HDB, Industrial projects led by JTC, Roads and Rail projects led by LTA, and Healthcare projects led by MOHH. Vendors will demonstrate the workflows for generating product and performance data for the 10 essential Digital Use Cases.

PSG Funding is available at a 70% support level till 31 January 2023, while the maximum funding level of up to 80% is available until 30 September 2021.

If you have questions about how to sign up for the IDD training, how to apply for funding support, and how to select digital platforms, submit your questions/feedback to <https://go.gov.sg/iddfeedback>

To nominate your project to pilot IDD, please contact the Honorary Secretary of SIBL to make this nomination on your behalf. We look forward to receiving your nomination for this initiative.

Source of information: SIBL representatives attended the Built Environment Tripartite Committee meeting on 22 January 2021.

SIBL UPCOMING NEWS

- New Members Network, 6 March 2021.
- GeoConnect Asia 24-25 March 2021 Discounted rates for SIBL members.
- Facilities Management Conference (FMC) 8 July 2021

International BIM Accreditation in the Works for SIBL Members

The Singapore Institute of Building Limited is working on an international BIM Accreditation pathway for SIBL members by signing an MOU with the British Standards Institute on 29 January 2021. The MOU outlines a partnership between both parties to explore the conduct and development of BIM Manager training based on international standards and local market requirements. This also includes the professional assessment and qualification of BIM Managers after the course has been completed.

BIM has been one of the most promising recent developments in the built environment sector as well as a revolutionary change for managing a project from beginning to end. Despite the efforts from the government and industry, the BIM adoption in Singapore still faces some hindrances and challenges.

Despite the efforts from the government and industry, the BIM adoption in Singapore still faces some hindrances and challenges. One of the few reasons identified is the lack of a ready pool of BIM expertise and the lack of relevant training.

Industry News/International BIM Accreditation in the Works for SIBL Members

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We, at BSI, believe in using standards as the answer to building the capability of the industry. Building capability and expertise will be a key strategy to encourage BIM adoption in Singapore.

Standards are a key part of our society as they ensure quality and safety in both products and services in international trade. Businesses benefit from standards as they can help cut costs by improved systems and procedures put in place.

“

Dr Nadege Claudel

General Manager at the British Standards Institute

Supporting the vision is SIBL's Accreditation and Professional Development Committee (APDC). A major strategic objective of the APDC is to set up robust accreditation schemes and continual development frameworks as well as the supporting infrastructure for the built environment professionals in the Digital Age.

"The role and vision of SIBL's APDC is to be the trusted accreditation body for practicing built environment professionals that promotes the certification and continuing educational & training for the recognition and professional development of these professionals."

-Dr Keow Yeong Ming
Chairman of SIBL APDC

Industry News/International BIM Accreditation in the Works for SIBL Members

Under Dr Keow's leadership, the APDC intends to set up an accreditation framework to recognize and support local BIM professionals' growth and development for the benefit of our industry.

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I am pleased that BSI has partnered SIBL to provide opportunities to our members to upgrade and go global. SIBL pledges to work together with BSI to promote the BIM international standards of BIM best practices, as well as the technical competence and capability of BIM professionals. The institute will also play an important role in thought and practice leadership for the BIM profession, an important criterion to ensure that the members of SIBL are equipped with the knowledge, experience and necessary skill sets to meet the challenges of an increasingly challenging and complex built environment industry.

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Dr Sussie Ketit
President of SIBL

Industry News/International BIM Accreditation in the Works for SIBL Members

This move is welcomed by AcePLP, a SIBL Enterprise Member and a virtual construction services provider for the Built Environment, offering services in BIM support and training through their team of 200 BIM/CAD Engineers.

"AcePLP welcomes accreditation pathways for BIM professionals in Singapore to grow and develop their career."

Ms Valerie Tang,
A member of the APDC that worked on this partnership with BSI

Integrated Digital Delivery (IDD) is one of the Singapore Government's key thrusts in the Construction Industry Transformation Map (ITM) to scale up the adoption of digital technologies to integrate work processes and connect stakeholders working on the same project throughout the construction and building lifecycle.

IDD includes the design, fabrication, and assembly on-site, as well as the operations and maintenance of buildings.

Successful implementations of IDD in diverse projects clearly rely heavily on the adaptive and innovative use of Building Information Modelling (BIM) technologies. As such, having a highly trained workforce skilled in the use of the latest digital BIM technologies in the architecture, engineering, construction and operations sector is a pre-requisite for IDD projects to be successful.

In line with the Singapore Government's emphasis on the digitalization of our industry, the SIBL through APDC will partner with an international organization to develop and roll out this industry accreditation and professional development scheme next year to recognise the important role played by BIM professionals in our industry.



Wednesday 24th - Thursday 25th March

Sands Expo & Convention Centre, Marina Bay Sands, Singapore

Global Solutions for Asia's Geospatial & Location Intelligence Markets

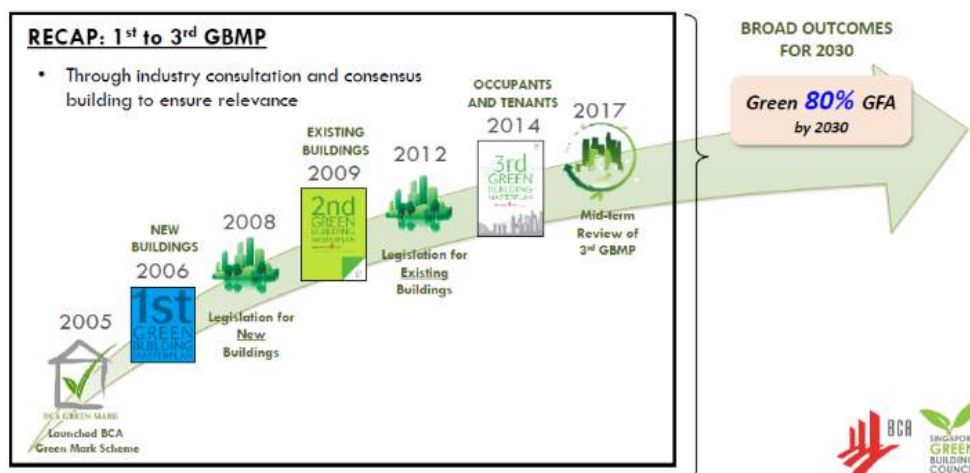
Entitlement	6sqm	9sqm	18 sqm
Pricing	SGD 5,700	SGD 7,650	SGD 15,300
Exhibitor Listing	Yes	Yes	Yes
Virtual Exhibitor Page: Includes 2 brochures, 1 live chat, and 1 pre-recorded video	Yes	Free for first 10 exhibitors	Yes
Business Matching	Yes	Yes	Yes
Tech Talk Speaking Opportunity	No	Yes (first come first serve)	Yes (Priority Given)

Administrative Fees:
SIBL Members S\$700
SIBL Non-Members S\$1000

Book your booth! Limited places available.
Up to 70% subsidy from ESG for local companies.

Co-creating the Singapore Green Building Master Plan

Singapore's green building journey started in 2005, with several iterations of the Green Building Masterplan to bring us to where we are today.



In the next iteration, the Singapore Green Building Masterplan will be about pushing boundaries to meet Singapore's international climate change targets.

The Building Construction Authority and the Singapore Green Building Council (SGBC) established the SGBMP Working Committee and 5 taskforce workstreams to co-create initiatives for different stakeholders, which covers the following objectives:

- Taskforce 1: Building up the SLEB (Super Low Energy Buildings) ecosystem.
- Taskforce 2: Raise the minimum EE standards and implement a Mandatory Energy Audit.
- Taskforce 3: Reinvent the Green Mark, streamline process and digitalisation.
- Taskforce 4: Build individual and firm manpower capability and support for green financing.
- Taskforce 5: Overarching collective vision for SGBMP and engage wider stakeholders.

Industry News/Co-creating the Singapore Green Building Master Plan

Together, BCA and SGBC mobilised key stakeholders from the entire value chain to co-create the shared vision and aspirations for the next lap of our green building journey. There are general calls for higher ambition as buildings stay with us for a long time, and for more educational efforts as there is a need to raise awareness on the benefits of green buildings and how it addresses climate change. There is feedback on the challenging economic situations and suggestions to provide financial support to push the boundaries for higher standards.

In consultation with industry stakeholders and feedback received from the general public during public engagement initiatives, the SGBMP aims to deliver **3 key outcomes by 2030**:

Outcome 1: 80% building GFA to be green by 2030

Outcome 2: 80% of new developments to be SLEB from 2030

Outcome 3: 80% improvement in EE by 2030 for best-in-class buildings

To achieve Outcome 1, minimum standards will be raised to improve the quality of Singapore's building stock. This is supported by an independent consultancy study, which shows that it makes business sense to raise EE standards from a lifecycle costing perspective, as Green Mark buildings reap net positive savings over their lifecycle.

To achieve Outcome 2, SGBMP will co-create SLEB standards for different building typologies while creating lead demand for SLEB. The revised SLEB standards will help ensure that all building typologies can target to achieve SLEB through 3 possible pathways. Lead demand will be created with the Public Sector taking the lead in Environment Sustainability (PSTLES), while forerunners in the private sector will be engaged to explore a phased approach to raise sustainability requirements for Government Land Sales (GLS), starting with key growth areas.

Industry News/Co-creating the Singapore Green Building Master Plan

To achieve Outcome 3, SGBMP will push boundaries to pave the way for near-zero energy buildings through Research and Innovation (R&I) projects.

Globally, as more countries set higher carbon reduction targets, Singapore needs to continue to take active steps to achieve greater environmental sustainability. In line with rising international ambition for climate action and calls for "net-zero" emissions around the world, Singapore will take active steps to reduce building emissions through higher standards.

Source of information: SIBL representatives attended the Built Environment Tripartite Committee meeting on 22 January 2021.



FEATURED STORIES

Multiplicity: A Cyber- physical Mixed Reality Exhibition

Written by Teo Shao Tian & Simon-Kyle
Rocknathan

SUTD Architecture and Sustainable
Design

B.Sc. Class of 2020

Multiplicity tells a story of how Architectural and Sustainable Design (ASD) students, through their architectural education at the Singapore University of Technology and Design (SUTD), have found ways to bring their ideas to reality through innovation and technology. It brings together projects by students for whom the concept of multiplicity in its many forms provide an avenue for architectural representation.

The exhibition, the sixth showcase by SUTD, celebrates the myriad of possibilities the students can bring to the urban environment. The mixed reality exhibition features the works of ASD students that showcase the technology-driven approach of design while incorporating sustainable principles and collaboration. Implicit in their exploration of multiplicity is a challenge to use digital technology and virtual mediums to approach a problem and design delightful spaces and objects.

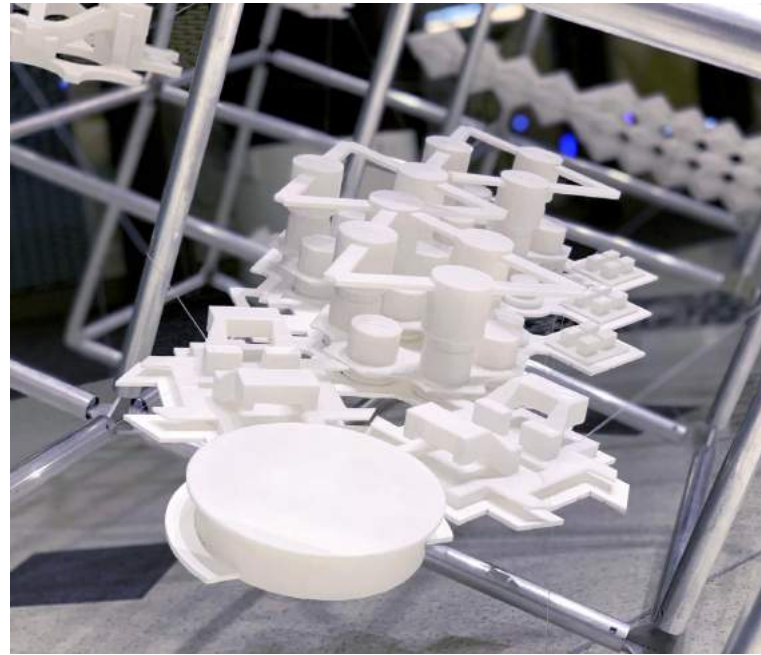
Conceived during a pandemic, Multiplicity embraces the aesthetic of our new normal; the barrage of QR codes, and safely-distanced clusters. Visitors put on the lenses of a space voyager, traversing four 'cities' of projects in search of solutions to their home planet's pandemic.

Industry News/Multiplicity: A Cyber-physical Mixed Reality Exhibition

The projects are dispersed along two axes, CURRENT/FUTURE – whether they deal with current issues or future developments, and PRAGMATIC/SPECULATIVE – how rooted they are in our current reality. These axes mark out four quadrants – the 'cities'.

These cities are demarcated by the four colour-coded zones found in the exhibition, where white 3D-printed PLA models levitate in aluminium frames. The displays were fabricated in-house, with precision and materiality meant to evoke the futuristic 'black box' of our voyager's craft – having crash-landed in SUTD's Campus Centre (the physical exhibition venue), shattering into various Tetris-like volumes.

QR codes litter the ground in a field condition, suggesting connections between displays. With a physical exhibition solely presenting the students' works distilled into artefacts, the QR codes act as a bridge to the virtual realm which supplements the exhibition and allows them access to the architectural drawings and visualisations behind each project.



Inspiration from SUTD's design-centric and innovation-based curriculum

A mixed-reality exhibition is the first of its kind for the college, and a testament to the architecture faculty's championing of innovation in the use of digital technologies. Hosting the virtual exhibition online not only allows for the multifarious supplementary material to be shared with visitors, but also mobilises the exhibition; these materials are not bound to a single location, complementing the practice of social-distancing regulations.

Industry News/Multiplicity: A Cyber-physical Mixed Reality Exhibition

The Focus on Sustainability

While its aesthetics serve the sci-fi narrative, sustainability is still the name of the game. Designed with re-use in mind, the modular system of mill-finish aluminium hollow sections and joints that make up the unique frames can easily be reconfigured into utility shelves, dividers, and display tables.

On top of this, the main materials used in the exhibition were chosen because of their sustainability; aluminium, can be readily recycled, and recycled aluminium is a commonly used material. PLA, which is used to print the architectural models, is a bioplastic, made from extracting sugars from plants like tapioca and corn.



Looking Ahead

Multiplicity hopes to dismiss the barriers to entry associated with architectural exhibitions without compromising on the span of its projects. It is an exploration of what exhibitions could be like in a future where people are warier of physical gatherings, and a celebration of the Class of 2020's individual voyages in architecture, and an open invitation to anyone and everyone, to begin their own.

The Multiplicity online showcase is part of the Asia Pacific Architecture Festival 2021. Works can be accessed at

<https://asd.sutd.edu.sg/gradshow2020/>

REDAS Elects New Management Committee

At the REDAS Annual General Meeting held on 4 February 2021, Mr Chia Ngiang Hong was unanimously re-elected by the REDAS Management Committee (MC) as President of REDAS for the term 2021/2022. Mr Chia is currently the Group General Manager, City Developments Limited.

Mr Chia is honored to be re-elected.

He said, "I would like to thank my fellow MC members for their unstinting commitment during their term of office. I am grateful for their assurance of strong support. Majority of the team has been re-elected for the new term 2021/2022. This underscores the confidence of REDAS members in the leadership of the MC team. Their commitment speaks volumes of the Association's critical role in the never-ending journey of building a nation."

Mr Chia added, "The present property market is challenging and we need to stay united as an effective team and continue to chart a course for inclusive growth for all in the real estate and built environment industry. REDAS has over the last sixty-one years played a positive contributory role to the real estate industry. Real estate has and will always be an integral part of Singapore's future. Notwithstanding the current challenging times, REDAS will continue to work closely with members as we plan and navigate in the new normal. This will allow us to overcome challenges and headwinds so as to recover and emerge stronger as a country and for a sustainable property market in the longer run. Together, we will continue to actively participate in the phenomenal growth and development of Singapore as a highly developed, urbanized and digitalized city-state and one of the world's most attractive and livable cities."

Featured Stories/ REDAS Elects New Management Committee

As the Association continues to stand united with its fraternity, Mr Chia would like to pay tribute to their visionary veterans, Past Presidents and Management Committee members for their guidance and dedication. He looks forward to the continued strong support from REDAS members and many more years of a collaborative and fruitful partnership.

The Singapore Institute of Building congratulates Mr Chia on his re-election and look forward to working with him closely to better the Built Environment.



Accrediting Green Building Professionals

The SGBC Green Mark Professional Qualification Scheme succeeds the BCA Green Mark Specialist programme and aims to uplift, upskill and recognise green building competencies of professionals active in the built environment sector.

Certification Types

Green Mark AP

The Green Mark AP certification qualifies industry professionals with the knowledge and expertise needed for the implementation of Green Mark projects.

- Green Mark Accredited Professional (*Green Mark AP*)
- Green Mark Advanced Accredited Professional (*Green Mark AAP*)

Green Mark AP (FM)

The Green Mark AP (FM) certification qualifies industry professionals with the knowledge and expertise needed to maintain and operate green buildings.

- Green Mark Accredited Professional (Facilities Management) [*Green Mark AP(FM)*]
- Green Mark Advanced Accredited Professional (Facilities Management) [*Green Mark AAP(FM)*]

Continuing Professional Development

A key feature of the SGBC Green Mark Professional Qualification Scheme is the establishment of a Continuing Professional Development (CPD) framework for all Green Mark APs. Through a host of meaningful programmes and activities, Green Mark APs are able to remain abreast of industry trends and stay ahead of sectoral developments.

Green Mark AP certifications are renewed annually upon fulfillment of the renewal requirements.

Renewal requirements
for **Green Mark AP** and
Green Mark AP (FM)



12 SGBC-GMAP
CPD Points

Renewal requirements
for **Green Mark AAP** and
Green Mark AAP (FM)



18 SGBC-GMAP
CPD Points



About the
scheme



Upcoming
CPD activities



Renewal
Requirements



Frequently Asked
Questions

Your Thoughts on the Singapore Green Plan 2030

Contributed by Amila Nayana
Kanthi, Contracts Manager,
Sihela Consultants

The Singapore Green Plan 2030, which includes new sustainability initiatives, will be a major transition into a future, which creates a safer, resilient, and sustainable city!

The built environment is one of the industries which is capable of providing effective means in achieving sustainability goals. As one of the major contributors towards green goals; with innovative designs and technology; green buildings and other infrastructure; the built environment industry can create a positive impact on the environment in many ways.

Some of the solutions in the industry include energy-efficient buildings with contribution to the circular economy through innovative designs & ideas which promotes sustainability in every aspect.

An aerial photograph of a cityscape, likely Singapore, showing a mix of high-rise residential buildings and green spaces. The buildings are mostly white and orange, with many windows. There are several green areas with trees and a winding road. The sky is clear and blue. A semi-transparent white box is overlaid on the center of the image, containing text and quotation marks.

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Aligning with 'The Singapore Green Plan 2030', I believe that there are much more things, which the Built environment industry can do. No doubt that Singapore is already a green city. With this movement, the green city will be a much better place in future!

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Featured Stories/ Your thoughts on the Singapore Green Plan 2030

The Singapore Green Plan 2030, which includes new sustainability initiatives, will be a major transition into a future, which creates a safer, resilient, and sustainable city!

By using recycled materials, with efficient use of natural materials and with energy-efficient designs towards zero waste concepts, the built environment industry can play a leading role in achieving 'The Singapore Green Plan 2030'. To create eco-friendly districts, and to bring trash to treasure, the built environment industry can contribute with innovative designs.

Green buildings and infrastructure bring benefits in environmental, economic, and social aspects where it plays a major role in providing a better place for people.

Other than new construction, there are many opportunities to convert existing buildings and structures towards a sustainable built environment. Therefore, it is also important to find opportunities for transforming existing built environment into zero waste efficient redevelopment which has a contribution to the circular economy & sustainability.

Aligning with 'The Singapore Green Plan 2030', I believe that there are much more things, which the Built environment industry can do. No doubt that Singapore is already a green city. With this movement, the green city will be a much better place in future!

Read about the Singapore Green Plan 2030 here: <https://www.greenplan.gov.sg/>



**Singapore Institute
of Building Limited**