

# BuildSG LEAD Forum 2022 Series



**2 June 2022 • 10am to 12.30pm**  
**Complimentary Event**

This event is held at Auditorium T1-1 @ BCA Braddell Campus and broadcast on Zoom

## SUSTAINABILITY JOURNEYS: MAKING A DIFFERENCE TO THE BUILT ENVIRONMENT

Singapore is committed to achieving sustainability goals, placing them at the forefront of many of its' long-term plans. In particular, the Singapore Green Plan 2030 was launched last year. It is a whole-of-nation movement to advance Singapore's national agenda on sustainable development. Businesses are also increasingly embedding sustainability in their vision and mission: putting sustainability at the heart of the work they do.

Through the sharing of exemplary sustainable practices and projects, this session of the BuildSG LEAD Forum seeks to engage and foster closer collaboration amongst the leaders in the Built Environment on this sustainability journey we are on. Jointly organised by BCA and JTC, we bring together stakeholders from both the public and private sectors, along the BE value chain, to share the vision and insights of their own sustainability journeys.

So join us at this forum to learn more about these exemplary practices, be inspired to lead your own sustainability journey, and make a difference to the Built Environment!

### PROGRAMME

TIME	EVENT
<b>VISION SETTING</b>	
10.00am	<b>Paving the Way to Sustainability in the Built Environment through the Singapore Green Building Masterplan (SGBMP)</b> Mr Ang Kian Seng, Group Director (BCA)
<b>PRESENTATION 1: PLANNING PERSPECTIVE</b>	
10.20am	<b>Punggol Digital District- Next Generation Smart and Sustainable District</b> Mr Kok Poh June, Group Director (JTC) and Ar Chan Ee Mun, Director (WOHA)
<b>PRESENTATION 2: MARKET PERSPECTIVE</b>	
10.40am	<b>Keppel Bay Towers: Foresight To Transform an Existing Building to Zero Energy</b> Mr Sim Puay Kiak, Head, Sustainable Urban Renewal (Keppel Land)
<b>PRESENTATION 3: DESIGN PERSPECTIVE</b>	
11.00am	<b>Sustainable Consultancy: Paving the Way to Mainstream Higher Sustainability Targets in Buildings. What it takes to Drive the Change?</b> Ms Farizan D'Avezac De Moran, Founding Partner (GreenA Consultants)
<b>PRESENTATION 4: LIFE CYCLE PERSPECTIVE</b>	
11.20am	<b>Smart FM Adoption in the Industry – A Case Study</b> Mr Subrata Bhattacharya, Director (Johnson Controls)
<b>PANEL DISCUSSION</b>	
11.40am	<b>Moderator:</b> Mr Ang Kian Seng, Group Director (BCA) <b>Panellists:</b> 1) Mr Kok Poh June, Group Director (JTC) 2) Ar Chan Ee Mun, Director (WOHA) 3) Mr Sim Puay Kiak, Head, Sustainable Urban Renewal (Keppel Land) 4) Ms Farizan D'Avezac De Moran, Founding Partner (GreenA Consultants) 5) Mr Subrata Bhattacharya, Director (Johnson Controls)
12.30pm	<b>End of Programme</b>



# SUSTAINABILITY JOURNEYS: MAKING A DIFFERENCE TO THE BUILT ENVIRONMENT

## VISION SETTING



**Mr Ang Kian Seng**  
Group Director  
(BCA)

## PAVING THE WAY TO SUSTAINABILITY IN THE BUILT ENVIRONMENT THROUGH THE SINGAPORE GREEN BUILDING MASTERPLAN (SGBMP)

BCA and SGBC have worked together to develop the next edition of the SGBMP together with industry stakeholders and the community.

The SGBMP captures our collective commitment to pursue more ambitious sustainability standards in our Built Environment and is part of the Singapore Green Plan 2030.

Incorporating the FM ITM refresh, this presentation seeks to share the vision for Sustainability and set the context for this forum.

*Mr Ang Kian Seng heads the Environmental Sustainability Group in the Building and Construction Authority of Singapore (BCA).*

*His portfolio includes policies on green buildings and FM transformation, with the BCA Green Mark Scheme as a main lever. The Green Mark scheme certifies buildings on their level of environmental friendliness and energy efficiency. He plays an instrumental role in the formulation and implementation of BCA's Green Buildings Masterplans.*

*He is the current Treasurer of the Singapore Green Building Council (SGBC). He also sits on the board of directors of the Singapore International Facility Management Association (SIFMA), which is positioning itself to champion the FM industry transformation.*

## PRESENTATION 1: PLANNING PERSPECTIVE



**Mr Kok Poh June**  
Group Director  
(JTC)

## PUNGGOL DIGITAL DISTRICT – NEXT GENERATION SMART AND SUSTAINABLE DISTRICT

Punggol Digital District (PDD) will be a smart destination for work and life, where innovators and the community can meet, interact, and turn ideas into reality.

PDD is also envisioned to be a new green and sustainable district model with a comprehensive network of infrastructure to support environmental sustainability.

This presentation will outline the roadmap of how the PDD project team achieves the sustainability goals through planning for smart features and innovative green design.

*Mr Kok Poh June's real estate experience includes mixed-use physical planning, industrial development, residential property development, marketing, and lease management.*

*He was also instrumental to the master development of the One-North project —Singapore's icon of the new economy, which combines work, live, play and learn elements. At Tianjin Eco-city, he brought along his vast experience of planning and development of smart green cities and contributed to the creation of vibrant residential communities and urban spaces.*



### PRESENTATION 1: PLANNING PERSPECTIVE



**Ar Chan Ee Mun**  
Director  
(WOHA)

### PUNGGOL DIGITAL DISTRICT – NEXT GENERATION SMART AND SUSTAINABLE DISTRICT

*Ar Chan Ee Mun is a Director at WOHA. He obtained his Master of Architecture from the National University of Singapore.*

*Ee Mun is driven by his intrinsic interest in Tropical Urbanity and its change-making potential in shaping responsive architectural solutions to modern issues of density and climate change. His work is characterised by its people-centric approach which is spatially engaging, programmatically vibrant and environmentally responsive. Acknowledged as a leading young architect in “20 under 45” by Singapore’s Urban Redevelopment Authority, Ee Mun has led and completed award-winning projects in key development sectors including residential, commercial, conservation, institutional and hospitality.*

*He speaks at local and regional forums and has been engaged in academia as a visiting design tutor, lecturer and external examiner at local art and architectural institutions such as the National University of Singapore, Singapore University of Technology and Design and Nanyang Academy of Fine Arts.*

### PRESENTATION 2: MARKET PERSPECTIVE



**Mr Sim Puay Kiak**  
Head  
Sustainable Urban Renewal  
(Keppel Land)

### KEPPEL BAY TOWER: TRANSFORMING AN EXISTING BUILDING TO A ZERO ENERGY BUILDING

Keppel Land’s vision is to be a leader in redefining urban spaces for a sustainable future. As part of Keppel’s Vision 2030, Keppel Land has put sustainability at the core of its strategy.

Keppel Bay Tower (KBT) best showcases Keppel Land’s sustainability efforts. Completed 20 years ago, it was retrofitted and became the first commercial building in Singapore to be awarded with BCA’s Green Mark Platinum Zero Energy certification in 2020. It shows how companies can play a part to reduce the built environment’s carbon footprint through the greening of old assets and providing sustainability as a service to investors and like-minded asset owners.

*Mr Sim Puay Kiak heads the Sustainable Urban Solutions business at Keppel Land, driving the company’s business strategy of acquiring aged commercial buildings in Asia Pacific markets and transforming them into sustainable and future-proofed commercial assets, leveraging Keppel Land’s extensive experience, capabilities and track record in real estate sustainability, commercial real estate development and management.*

*With more than a decade of experience in Keppel Land, Puay Kiak has held various roles in asset management, business development, corporate development and risk management. Prior to his current role, he spent four years as the Deputy Chief Executive Officer of Raffles Quay Asset Management (RQAM), where he oversaw major business transformation initiatives in the areas of sustainability, real estate digitisation and the development of new workspace solutions. He graduated with a First Class Honours in Bachelor of Science (Real Estate) from the National University of Singapore.*

### PRESENTATION 3: DESIGN PERSPECTIVE



**Ms Farizan D'Avezac de Moran**

Founding Partner  
(GreenA Consultants)

### SUSTAINABLE CONSULTANCY: PAVING THE WAY TO MAINSTREAM HIGHER SUSTAINABILITY TARGETS IN BUILDINGS. WHAT IT TAKES TO DRIVE THE CHANGE?

GreenA Consultants is pivotal in the sustainability journeys of Super Low, Zero and Positive Energy Buildings, including consulting for several large-scale projects such as PSA Tuas Maintenance Base and DBS at Newton

Being a consultant for many sustainability projects, GreenA will share the green opportunities, challenges, and approaches for different building typologies in Singapore. GreenA will also share their international experience both regionally and globally.

*Ms Farizan d'Avezac de Moran leads the team at GreenA Consultants, a sustainability consultancy firm based in Singapore with projects in Africa , SEA , Europe and UK*

*Trained in both strategic and technical consulting, she has more than 25 years of experience in the build environment. She is a LEED AP, WELL AP, Living Future Accreditor , Green Mark Advanced Accredited Professional (GMAAP) and EDGE Expert. As a greenhouse gas verifier she blends sustainability strategy into attainable climate goals.*

*She was conferred the Green Advocate of the Year for BCA-SGBC Green Building Individual Awards in 2015, a Sustainability Leadership Award launched to recognise industry leaders for outstanding contribution in the industry. She serves as a Board Member of Singapore Green Building Council and second Vice-President of Singapore Institute of Building Limited.*

### PRESENTATION 4: LIFE CYCLE PERSPECTIVE



**Mr Subrata Bhattacharya**

Vice President  
(Johnson Controls - APAC)

### Smart FM Adoption in the Industry – A Case Study

Smart FM is all about how to achieve an enhanced facility performance in terms of energy optimization as well as best in class asset performance resulting in decarbonization while delivering a better indoor environment and superlative occupant experience at an optimized cost.

The topic will share on how Johnson Control's OpenBlue platform triangulated with People enablement and process re-definition was put into action at scale in CapitaLand that delivered an enterprise building operating system. The system aims to normalize data and information across different systems and OEMs for uniform visibility of building operations thus enabling the Smart FM journey for the enterprise.

*Mr Subrata Bhattacharya has over 25 years' experience in Smart buildings environment. Based out of Singapore, he currently heads the Customer Success for Digital solutions APAC and works with building owners and operators in their digital journey to create a sustainable infrastructure. As part of the JCI's core team, he plays an important role in understanding customer/ market needs and is a key contributor to the roadmap for JCI' s industry leading 'OpenBlue' suite of technology and solutions.*

*Subrata holds a 'Bachelor of Technology' in Instrumentation engineering and a 'Bachelor of Science' degree in Physics from University of Calcutta, India. He is also certified Big Data and analytics professional from Northwestern University – Kellogg's school of Management.*



Moderator



**Mr Ang Kian Seng**  
Group Director  
(BCA)



Panel Members



**Mr Kok Poh June**  
Group Director  
(JTC)



**Ar Chan Ee Mun**  
Director  
(WOHA)



**Mr Sim Puay Kiak**  
Head  
Sustainable Urban Renewal  
(Keppel Land)



**Ms Farizan D'Avezac de Moran**  
Founding Partner  
(GreenA Consultants)



**Mr Subrata Bhattacharya**  
Vice President  
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