



Built Environment Transformation Award



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BUILT ENVIRONMENT TRANSFORMATION AWARDS



ABOUT THE AWARD

Launched in 2022, the inaugural BCA Built Environment Transformation Award accords recognition to building projects that demonstrated commitment towards transformation.

AWARD CATEGORY

- Commercial/Mixed Development Buildings
- Industrial Buildings
- Institutional Buildings
- Residential Buildings



PSA LIVEABLE CITY

BUILT ENVIRONMENT TRANSFORMATION AWARDS (COMMERCIAL/MIXED DEVELOPMENT BUILDINGS)



Developer	PSA Corporation Limited
Builder	Lum Chang Building Contractors Pte Ltd
Architect	DCA Architects Pte Ltd
C&S Consultant	RSP Architects Planners and Engineers Pte Ltd
M&E Consultant	Surbana Jurong Consultants Pte Ltd
ESD Consultant	Surbana Jurong Consultants Pte Ltd

Project Features:

- The project attained GM platinum and put in place Integrated Building Management System and Integrated Energy Management System to improve operational efficiency.

Extensive use of digitalization and technology to improve productivity

- Successful use of Common Data Environment (CDE) platforms and structured data standard setup to facilitate data sharing and cross-disciplinary collaboration.
- Extensive use of IDD for process integration from design to asset delivery/management.
- Utilisation of drones for on-suite surveillance, site safety monitoring and real-time façade inspection improved site safety monitoring by 45% and reduced façade inspection from 60 manhours to 20 manhours.

Good Workforce Development

- DCA and Lum Chang are committed to upskill and deepen knowledge of staff in ITM areas and Leadership skills.



EUNOIA JUNIOR COLLEGE

BUILT ENVIRONMENT TRANSFORMATION AWARDS (INSTITUTIONAL BUILDINGS)



Developer	Ministry of Education
Builder	Kimly Construction Pte Ltd
Architect	CPG Consultants Pte Ltd
C&S Consultant	CPG Consultants Pte Ltd
M&E Consultant	CPG Consultants Pte Ltd
ESD Consultant	CPG Consultants Pte Ltd

Innovation and Technology

- One of the first movers to adopt Cross Laminated Timber (CLT) Prefinished Modular Façade and CREE Hybrid Slab System, which led project to achieve 44% productivity improvement over 2010 levels.

Design for Maintainability

- Collaborative design approach – Involvement of FM practitioners upstream
- Incorporation of façade access strategy around the entire façade

Good Workforce Development

- Both Kimly and CPG have been actively training staff in ITM Areas. CPG has a 1-1 IGNITE Coaching Program , which is a 6 month talent development program to groom their talents. Kimly adopts BE Sector Competency Framework Development and a structured On-the-Job-training (OJT) blueprint development.
- Both Kimly and CPG are strong advocates in attracting local talents into construction industry and have participated in various initiatives.



JTC's 1&7 NORTH COAST

BUILT ENVIRONMENT TRANSFORMATION AWARDS (INDUSTRIAL BUILDINGS)



Developer	JTC
Builder	Lum Chang Building Contractors Pte Ltd
Architect	Aedas Pte Ltd
C&S Consultant	Arup Singapore Pte Ltd
M&E Consultant	WSP Consultancy Pte Ltd
ESD Consultant	Arup Singapore Pte Ltd

Extensive use of digitalization and technology to improve productivity

- Successful use of Common Data Environment (CDE) platforms and structured data standard setup to facilitate data sharing and cross-disciplinary collaboration.
- Extensive use of IDD for process integration from design to asset delivery/management and developed new BIM processes to integrate 3D model and cost-estimating software (CostX) for automated generation of progress payments.

Design for Maintainability

- Collaborative design approach – Involvement of FM practitioners upstream.
- Incorporation of façade access strategy around the entire façade.

Strong partnership with value chain

- Main contractor co-developed solution with their value chain to have better process integration and increase productivity of the value chain.



THE TAPESTRY

BUILT ENVIRONMENT TRANSFORMATION AWARDS (RESIDENTIAL BUILDINGS)



Developer	Bellevue Properties Pte Ltd (CDL)
Builder	Woh Hup (Pte) Ltd
Architect	ADDP Architects LLP
C&S Consultant	P&T Consultants Pte Ltd
M&E Consultant	Belmacs Pte Ltd
ESD Consultant	Building System and Diagnostics Pte Ltd

Project Features

- The project adopted the PPVC, which is the most integrated DfMA technology. As a result, it achieved 50% productivity improvement over 2010 levels.
- The project delivered outstanding quality, Quality Mark (Star) and CONQUAS (Star). It has also attained GM platinum.

Strong sustained partnerships

- The strong partnership in the Tapestry has led to more collaboration in PPVC projects, where they employed productive construction methods including IDD by designing and planning digitally before actual construction
- The builder played an active role to train its subcontractors and upskill them in BIM capabilities

Good workforce Development

- Woh Hup and ADDP are committed to upskilling their staff and actively bringing new talent to the industry. Woh Hup is the recipient of the Best Employer Award in 2020 & 2021 (Kinetic) and 2021 & 2022 (The Straits Times), a recognition of the company's good HR practices.

Organiser



An Initiative Under

