

OUR PROMISE: • innovation | ingenuity • hypergreen | sustainability

- signature | style
- well-being | happiness
 - cost control | viability

E C O A R C H I T E C T U R E

Contact Us:



what others say about us? ..3rd party endorsement..

.. wind, rain and sun in the minds of most architects, they are enemies, but what if buildings can utilise and respond to the conditions of the environment? what if the urban environment itself became a living, breathing organism? To Ken Yeang it is...







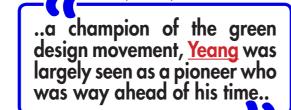
- **OUR PRODUCT:**
- design ideasinnovations
- local base global reach

OUR PROMISE:

- innovation | ingenuity
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what others say about us?
..3rd party endorsement..

..Ken Yeang has developed a distinctive architectural vocabulary that extends beyond questions of style...





Lord Norman Foster (British Architect, Foster & Partners)



firm's ethos is "innovation, hyper-green, signature and people's happiness-focused design", which are its signature aesthetics and what make its work compelling..



Archute

..Ken Yeang is an architect and ecologist with a wealth of experience in ecological design and planning for over 50 years. He has pioneered the field of biophilic design and his 'bioclimatic skyscraper', is a type of high-rise now used in various cities that performs as a passive low-energy building, designed according to the location's local climate..

..probably no individual is more important in the development of ecodesign's theory and practice than the London and Kuala Lumpurbased architect Ken Yeang..

..Ken, how many of these have you built?... (at conference (UK) sponsored by Infosys)



Charles III

..one of the 50 people who could save the Planet..

it took 50 years to design the future ..about T. R. Hamzah & Yeang Sdn. Bhd..

An experienced architecture, masterplanning and interior design company with demonstrated history of skills in designing and delivering signature award-winning super-green solutions.



1971 pioneer research on Ecological Design (Cambridge University)

1976 establishing of company, over 5 decades of experience & dependability brought to benefit the development





Tengku





over **500** completed projects (since 1976) over 800 projects in more than 10 countries



- * design innovation
- specialist in ecological design (pioneered since 1971)
- * signature aesthetics
- * over 70 design awards
- * design happiness & well-being for human society



quality in everything we do we are committed to do work in the pursuit of excellence.



'saving the planet by design': design to fix the environmental crisis



develop architectural and planning solutions to fight climate change to address the environmental crisis



Malaysia: T. R. Hamzah & Yeang Sdn. Bhd.

4A Avery Row, London, W1K 4AL

China: Ken Yeang Design International Ltd. | North Hamzah Yeang Architectural Engineering Design Co. Ltd.

see our website: https://trhamzahyeang.com/

Personal Awards

WACA (World Association of Chinese Architects) Gold Medal Award
 Merdeka Award for the 'Environment' category
 PAM Gold Medal Award
 Design Master of World Alliance of Sustainable Cities Design (WSC)
 MGBC Leadership in Sustainability Awards 2014 for Excellence and

Leadership in Sustainability

• BCA-SGBC Green Building Individual Awards Green Architect Lifetime Achievement Award

2016 • Liang Sicheng Architecture Prize, China

BUILD Award 2016: Sustainable Building Awards -Best Green Architect

Identified as the 40th Most Famous Architects of the 21st Century
 Australian Institute of Architect - Leadership in Sustainability Prize
 DOTY (Designer Of the Year) Lifetime Achievement Award (ACG Media)



Ken Yeang received
Khan Award in 1996



Ken Yeang meets HH The Aga Khan (second left) at the 1986 AgaA Khan Award for Architecture Presentation Ceremony in Marrakesh, Morocco

Architectural Society of China Liang Sicheng Award 2016 received from Minister of Construction, China

our chief executive officer

..by signature ecology-based approach supplemented by meticulous management..

AA Dip. / APAM / FSIA / RIBA / FRSA / Hon. FAIA, D.Lit (Hon.) (Sheffield), PhD. (Cantab) Professor (Graham Willis Chair, Sheffield University) Adjunct Professor (RMIT, Melbourne) Adjunct Professor (University of Hawaii) Adjunct Professor (University of New South Wales, Sdyney) Distinguished Plym Proffesor (University of Illnois)

Ken Yeang is an architect, ecologist and author known for his work in the field of ecological design. He is recognised as a pioneer in sustainable architecture. Yeang's approach involves integrating ecology-based principles into architectural structures as Applied Ecology, promoting environmentally sensitive, carbon neutral and energy-efficient solutions. His innovative ideas focus on creating buildings that harmonise synergistically with nature while addressing contemporary environmental challenges. He is among the few architects who does research, designs, builds and writes.

Yeang trained at the Architectural Association (London). His Cambridge doctorate was published as 'Designing With Nature' by McGraw-Hill (1985). His awards include the Aga Khan Award, Prinz Claus Award, Auguste Perret Award (from International Union of Architects), Liang SiCheng International Award (from Architectural Society of China), Gold Medal (from Malaysian Institute of Architects). In recognition of his green architecture, the Guardian named him one of the 50 people who could save the planet could save the planet.



Receiving the Government of Malaysia Merdeka Award



what we do that others do not?

..fixing the planet for future generations..

...We are the only architect firm worldwide that ecologically-authentic signature 'super architecture and masterplans environmentally-aware investors. who want signature designs that are aesthetically unique, identifiably world class, pleasurable to use, **Super** green (beyond rating systems), innovative & delivered professionally on time,

on budget that are durable and built with high quality...

- T. R. Hamzah & Yeang Sdn. Bhd. -

what delights users?

covered verandahway



central promenade active public realm are designed with seating zones and planting areas as temporal event spaces that are shaded by the shadow of the tower blocks.



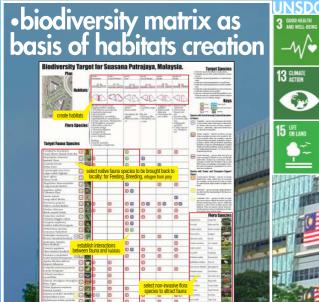




balconies with planter boxes



what makes it sustainable?









Putrajaya 2C5 is a 2 towers of 14-storey mixed-commercial development in the city of Putrajaya, Malaysia which is completed in 2017.

the double-skin facade are designed with 1 clear glass layer and a fritted (in Malay 'Songket' pattern) glass layer with 50% opaque coverage that provide sun-shading to the internal spaces.

Green Building Index (GBI)-Silver

skycourt

promenade

- OWORDS received

 Bronze Award -Regional Holcim Awards 2011
 Silver Award -Green Building Index (GBI) 2014
 Winner -Cityscape Global Awards 2018/2019
 Winner Malaysia GBC Best New Green

delivering the spirit of innovation

fritted-glass solar shading

planter

..by specialist expertise in low energy design..

what makes it innovative?

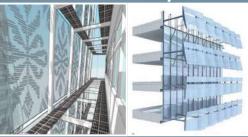
•glass sun-shading















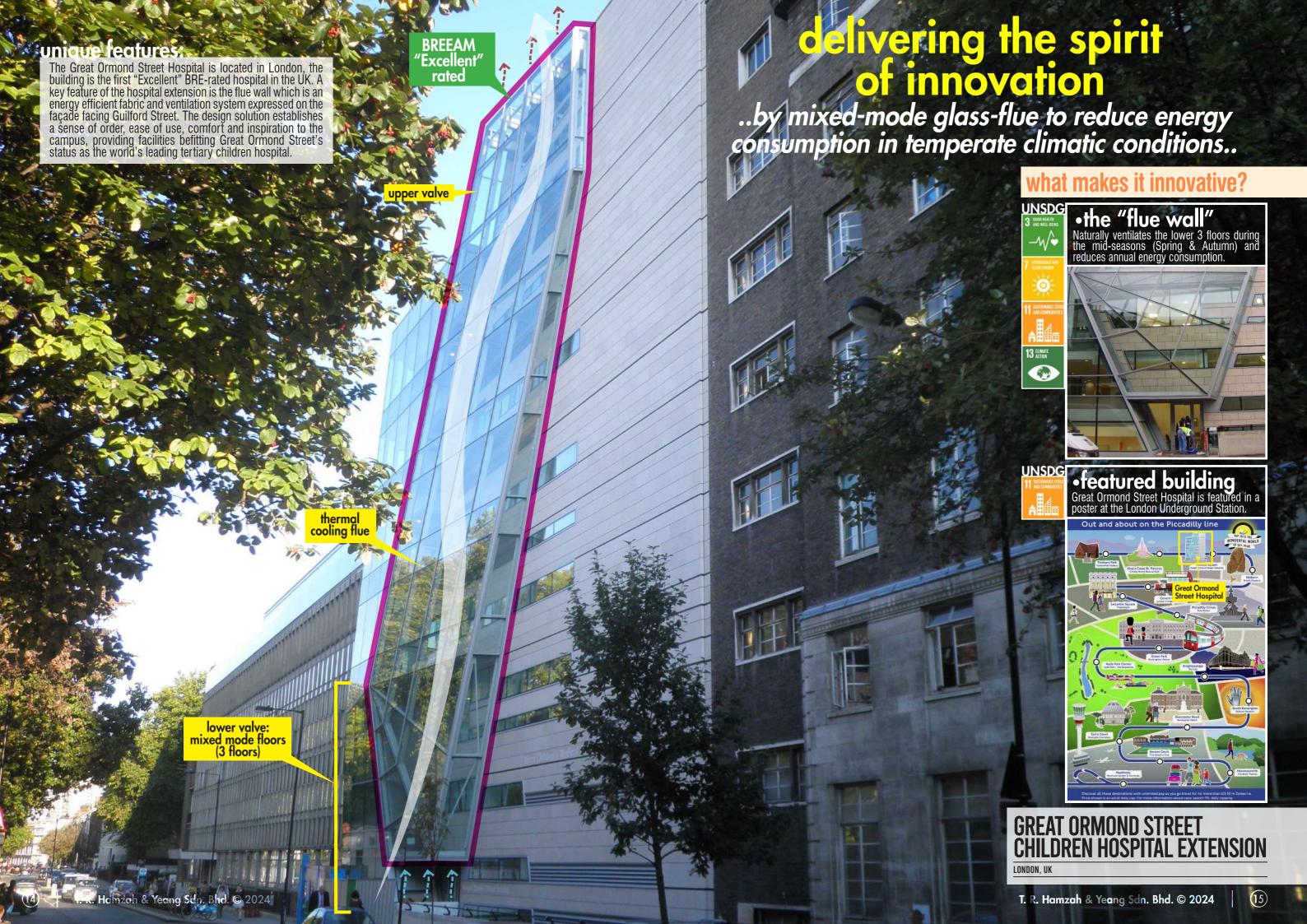
natural daylighting





PUTRAJAYA PRECINCT 2. MALAYSIA







sky-terraces at the corner of the building that forms interesting green landscapes and contributes **unique social meeting** "vertical linear park"



the 1.5 km long continuous green ramp acts as an ecological armature. The spiral ramp expands into



the automated operable louvers open to optimise ventilation in

unique features:

provision of

ecosystem

services

The main ecological sustainable significance of the project is its 1.5 km long continuous perimeter landscaped ramp from the basement to roof garden, which demonstrating ecological nexus and connectivity. Furthermore, the vegetation has compensates cleared vegetation for construction on-site, which exceeding site footprint by 80%. These is how Solaris strives to enhance its site's existing ecosystems.

awards received

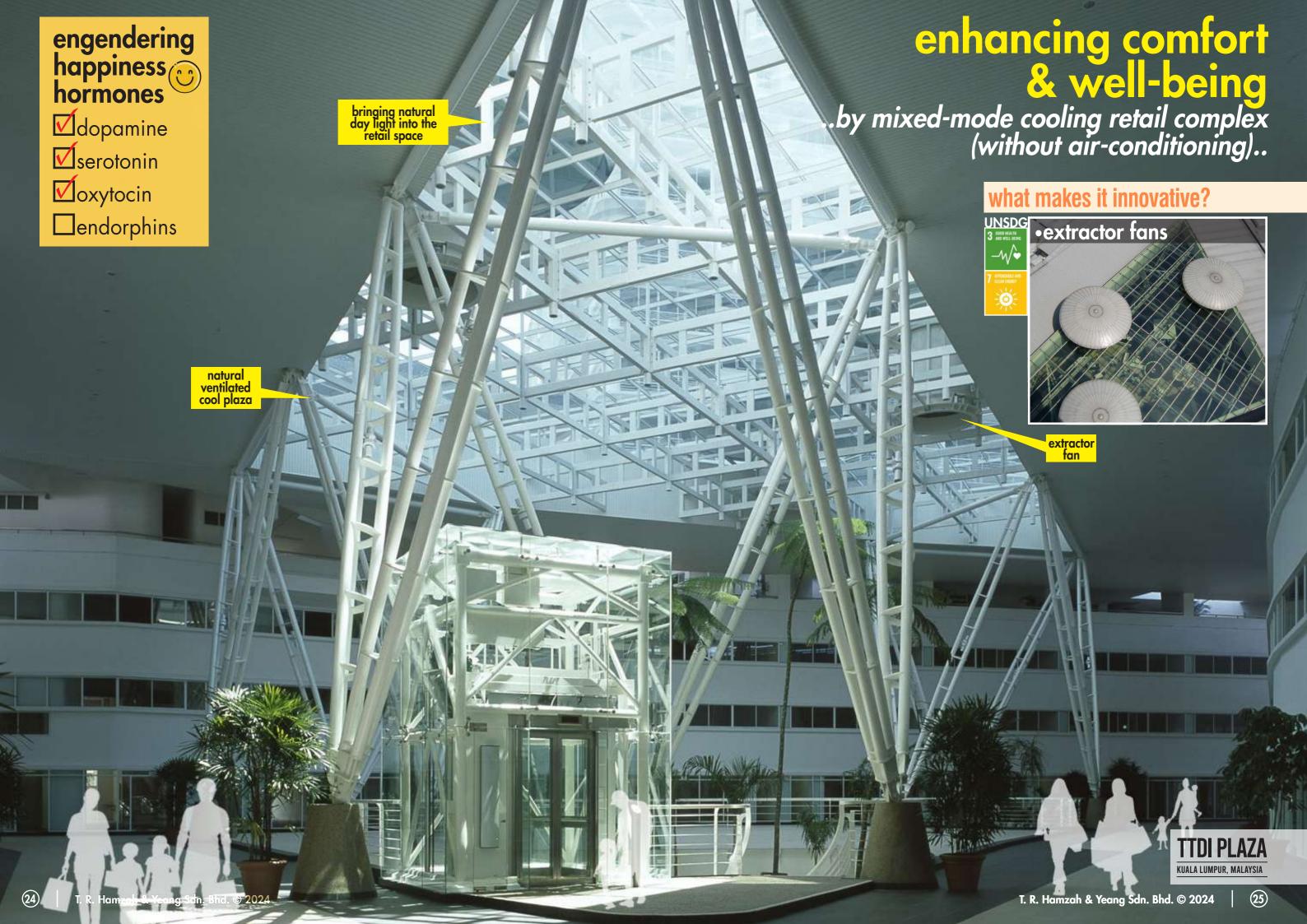
- AlA IR Design Awards 2014, Hong
- FIABCI World Prix d' Excellence A

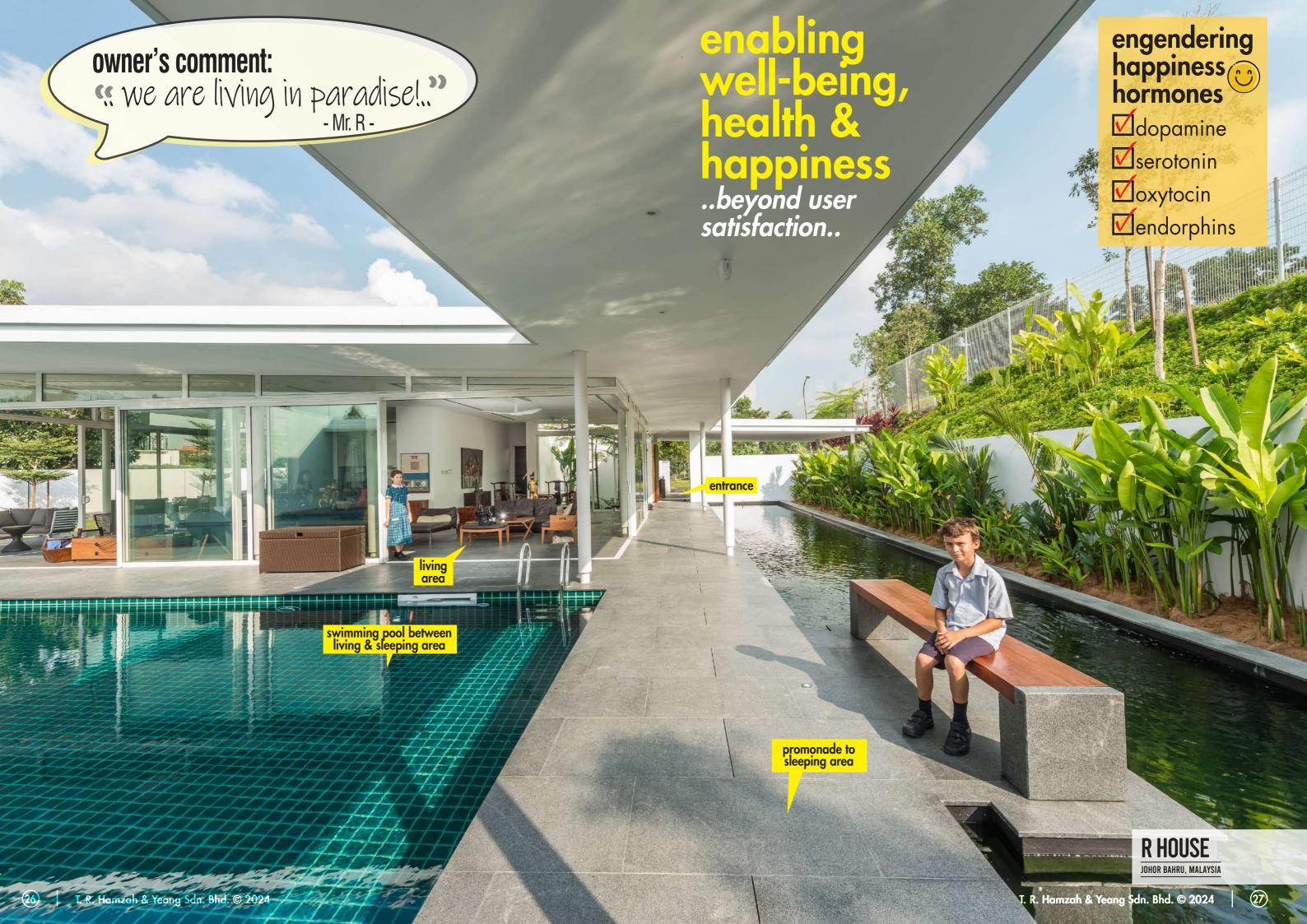




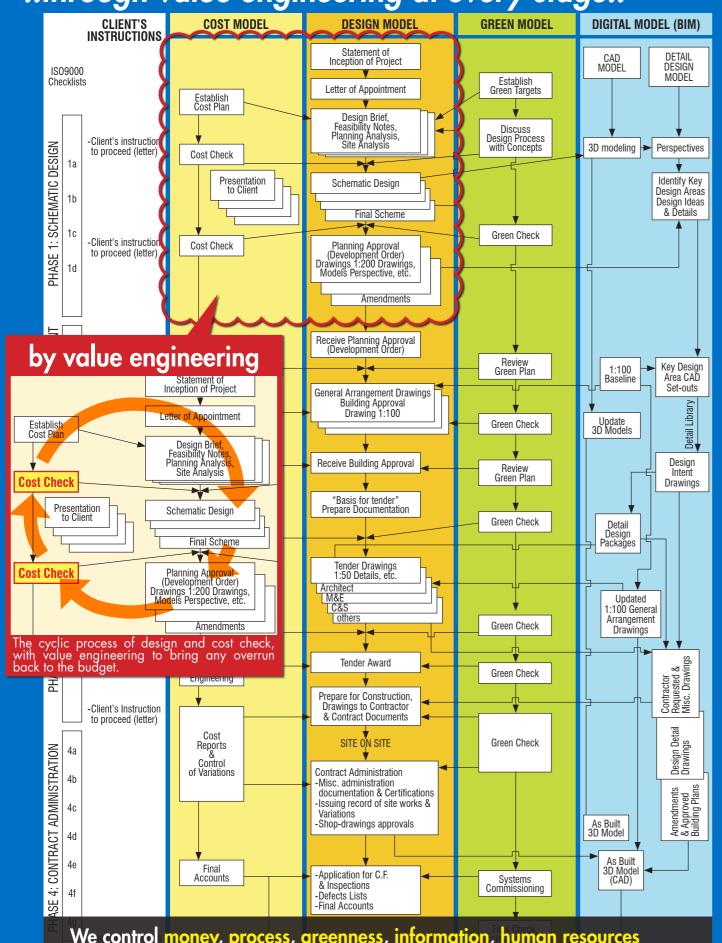








effecting cost control ..through value engineering at every stage..



We control money, process, greenness, information, human resources
If required, we can help advise on your financial model for your projects.

our promise ...this is what you get from us..

innovation

hypergreen



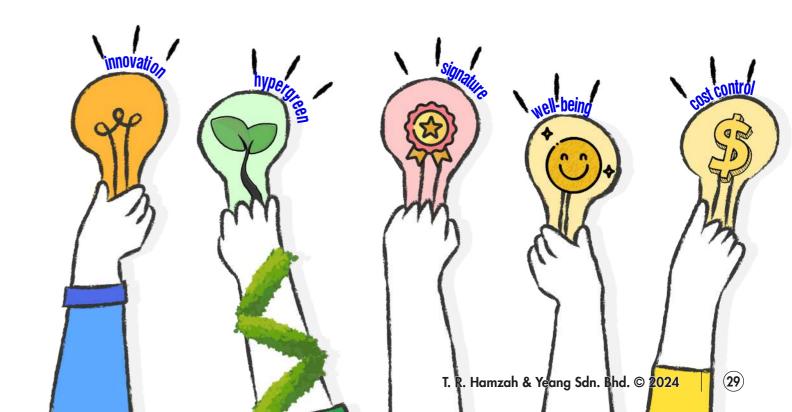
• signature



• well-being







positive action on climate change

we exist to fix the earth

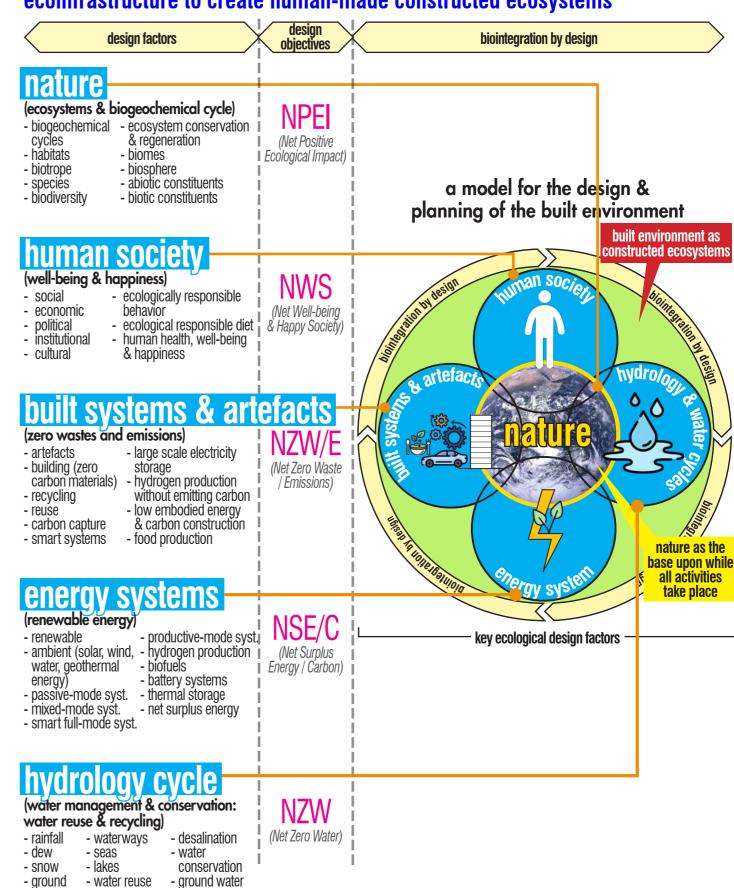


enable investor, developers & end users achieve their ESG aspirations & to address the environmental crisis

our system

ecological design model ..as basis for design..

Ecological design by seamless & benign biointegration of the 5 sets of ecoinfrastructure to create human-made constructed ecosystems



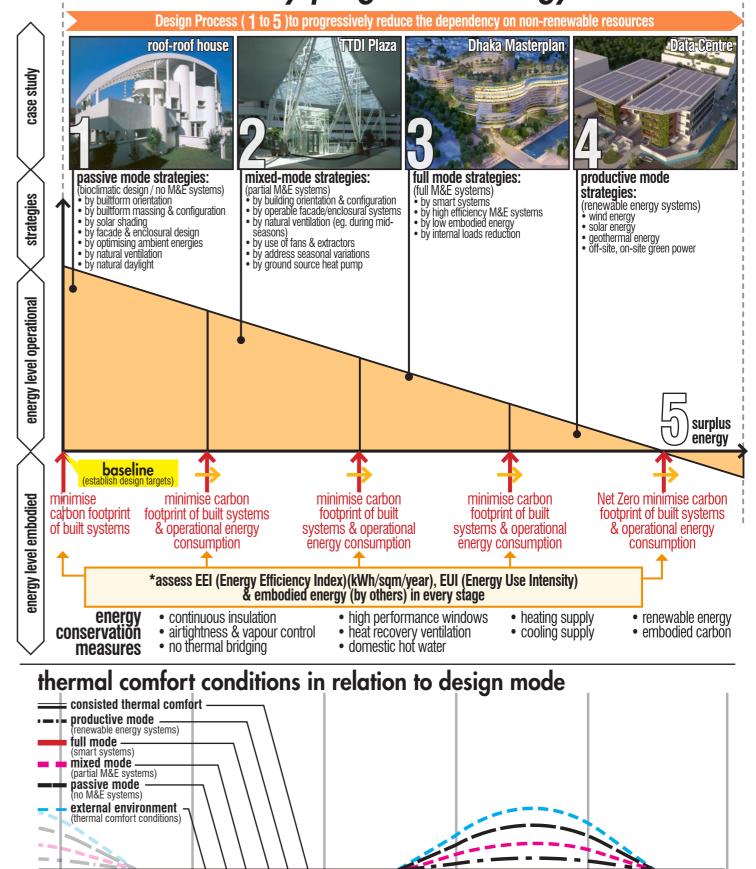
& recycling

recharge

increasing local biodiversity
..using Biodiversity Targets Matrix as basis for
design of habitats to enhance local biodiversity..



achieving Net Zero Energy ..by progressive energy reduction..



mid-season spring

>mid-season autumn> season: temperated & cold climates

winter

mid-season autumn

summer

effecting energy & water cost savings ..by sustainable design.. (case-study: Solaris, Singapore) "..the daylight

Green Mark Platinum



annual energy savings

Items	Reference(MWh/year)	Proposed (MWh/year)	Energy saving	
AHU and FCU Fans	2,861,45	1,313.58	54.09%	
Split Cooling Unit	5.14	3.96	23.01%	
Mechanical Fans	699.87 239.41 239.5 98.95 43.54 43.54		65.79%	
Chilled Water Pumps			58.68%	
Domestic Pump			0.00%	
Exterior Lighting	191.39	191.39 65.21		
Office Receptacle	1,845.84	1,845.84	0.00%	
Retail Receptacle	41.01	41.01	0.00%	
Water Heater	17.33 17.32 647.62 582.86		0.00%	
Lifts			10.00%	
Lighting 2,348.98		1,410.84	39.92%	
Total Energy Consumption	8,940.98	5,662.52	36.67%	
	Reference (Tons)	Proposed (Tons)		
Cooling load Reduction	1,998.55	1,667.65	16.56%	

annual water savings

"..the vertical linear park.."

"..the daylight central atrium.."

Items	Reference(m³)	Proposed (m³)	Saving (m³)	
Water efficient fittings	54,752	42,970	111,782 3,105 904	
Rainwater collection	0	-3,105		
AHU Condensate	0	-904		
Total	54,752	38,961	15,791	

estimated annual savings:

SGD 655,692 (energy) + SGD 36,335 (water)

SGD 692,047 (USD 530,000)

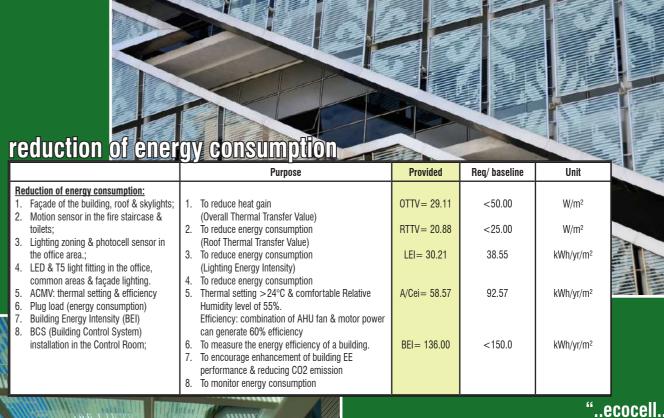


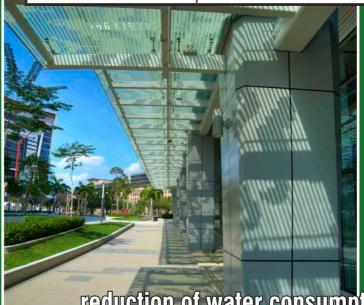
& water cost savings ..by sustainable design..

(case-study: Suasana Putrajaya, Malaysia)

Green Building Index Silver rating

"..the fritted glass double skin facade.."

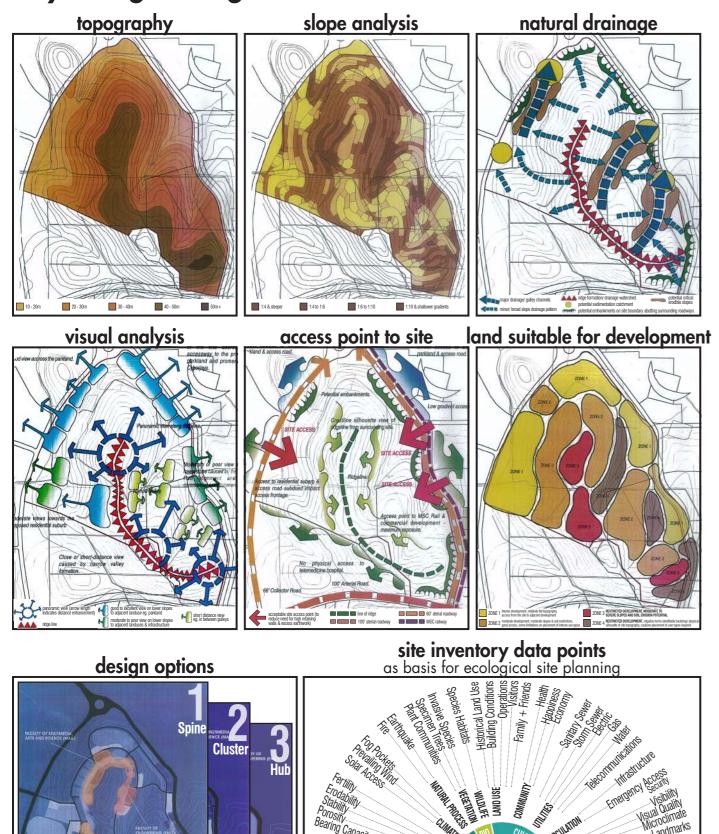






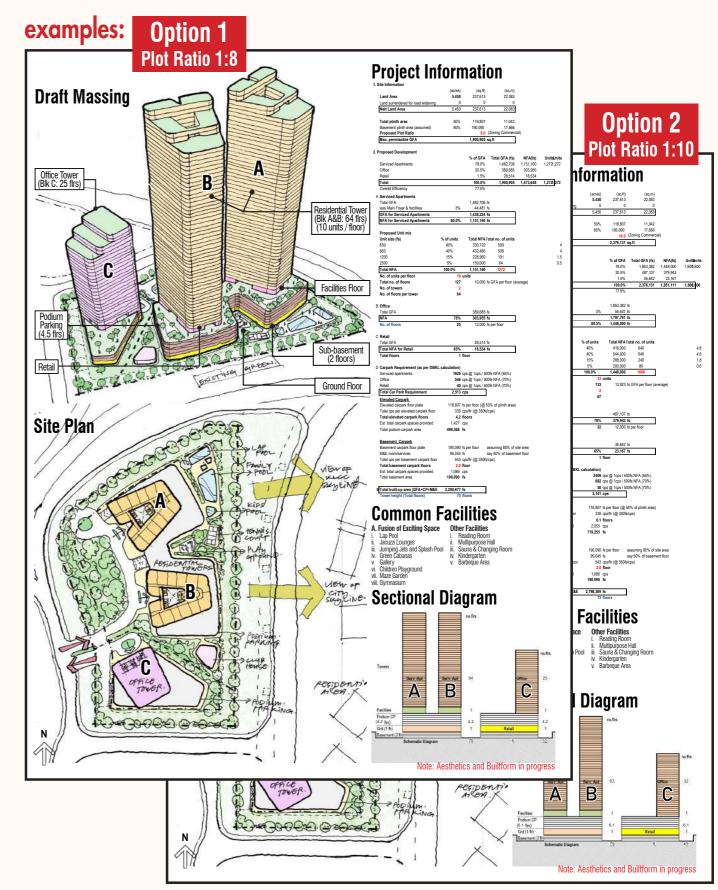
	reduction of water consumption				111111111	
		Purpose	Provided	Req/ baseline	Unit	
	Reduction of water consumption:					
	Water efficient fitting with minimum	To minimize water flow rate for toilet fittings	32,900	55,477	m³/yr	
	water flow rate	To harvest rainwater for landscape irrigation	11,055	-	m³/yr	
•	2. RWHT system for landscape irrigation	To harvest clean water for landscape irrigation	6,000	-	m³/yr	
- 4	3. Installation of 'Condensate Water	4. To reduce potable water consumption by using:	30,879	-	m³/yr (demand)	
	recovery'	Auto-control dripping system instead of sprinkler system	55.00%	>50.00	%reduction	
	4. Landscape irrigation system	Rain water & condensate water recovery				

conserving the site's ecology ..by using ecological land-use method..

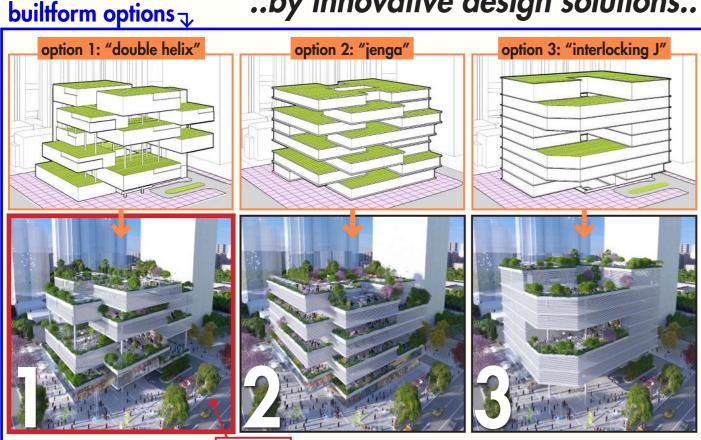


SITE INVENTORY DATA POINTS

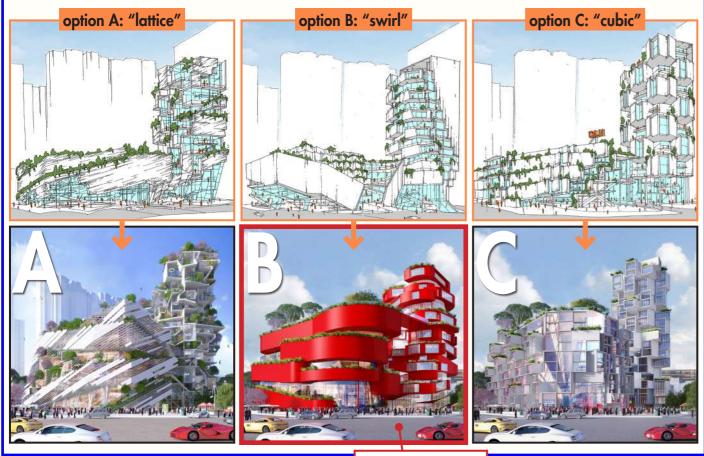
rapid delivering of design solutions ..by the "Basis for Design" approach..



providing builtform & aesthetic options .. by innovative design solutions..



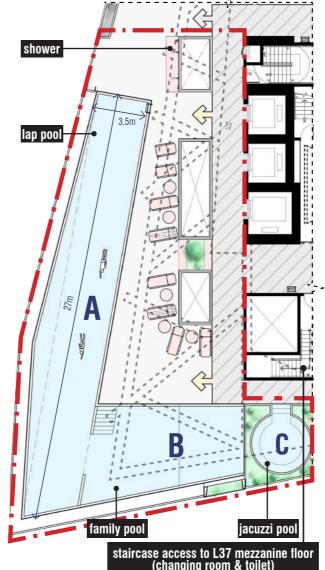
aesthetic options $\sqrt{}$



creating design themes to enable effective marketing

..ideas & options..

example of the rooftop of a luxury apartment with 4 pools;



Opt 1: "Caribbean, Calypso"



Opt 2:"Copacabana, Ipanema"

tropical & fun





sunbeds & umbrellas







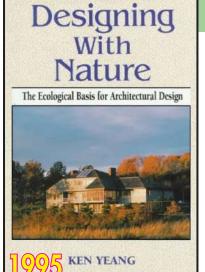




lively & energetic

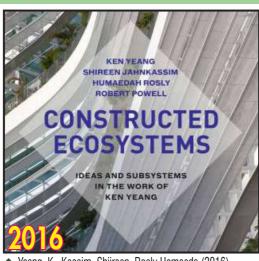
achieving thought leadership ..through research to advance sustainable design..

..over 14 research-based publications authored by Dr. Ken Yeang...

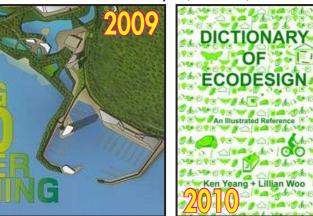


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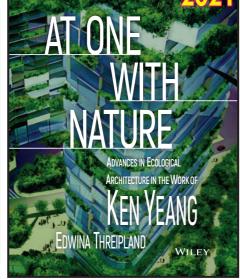
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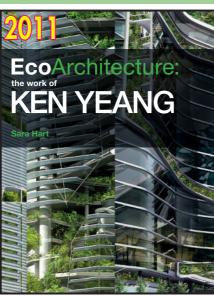
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available at www.amazon.com



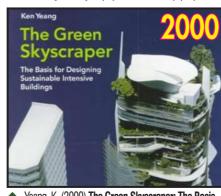
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Yeang, K. (2011), EcoArchitecture: the work of Ken Yeang, John Wiley & Sons



Yeang, K., (2020), Saving The Planet By Design Reinventing Our Cities Through Ecomimicry. Routledge & Kegan (Taylor and Francis) (UK)



Yeang, K. (2000) The Green Skyscraper: The Basis for Designing Sustainable Intensive Buildings
Prestel, Munich, Germany

generating creative & inspired ideas ..over 800' projects worldwide..



















signatur

well-being & happiness

and more...

our ambitions & goals

our design ethos: what defines us?

..make us what we are today..

management excellence: our vision, mission, strategy, goals & action

delivering the best & most advanced | ecological design world-wide

saving the planet by design

• designing to connect the human-made
built environment seamlessly with the natural environment by nature-to-nature biointegration

> adopting a holistic nature-based approach

STRATEGY

GOALS

MISSION

ACTION

creating innovative state-ofthe-art solutions that are:

- functional (it 'works')
- make people happy (enhancing people's health & well-being)
 - meet criteria (cost, time, quality, legislative)
 - aesthetically fulfilling (immensely beautiful and signature)
 - hypergreen (sustainable)

quick, efficient, timely & neat delivery

what you get from us? ..creating a high-value product for you..



well-designed, refined, elegant and exquisitely beautiful



design that gives the **highest level of pleasure**



exclusiveness of product that many others cannot have or enjoy



product possession by purchasers as **reward of their personal success**



possession of well-designed exclusive product as **proof of financial standing**



product possession as by owner's **recognition of status**



T. R. Hamzah & Yeang Sdn. Bhd. © 2024

accompanying **privileges and service** created for the designed product



functional rationale for ownership of designed product bringing our award-winning experiences to benefit your ..over 70 awards in 25 years.. projects

2022 Australian Institute of Architect - 2022 Leadership in Sustainability Prize The Edge Malaysia-PAM Green Excellence Award (Honorary Mention)-

Putrajaya Suasana (2C5)

2021 PAM Gold Medal Award 2020: Commercial (High Rise) Category -Putrajaya Suasana (2C5)

2020 ASA Gold Medal

2020 Global Forum on Human Settlements (supported by UN Environment Sustainable Development) Planning and Design for Putrajaya Suasana (2C5)
2020 Global Forum on Human Settlements (supported by UN Environment Sustainable Development) Outstanding Contribution
2020 Malaysia Green Building Council Best Research
2018 Malaysia Green Building Council Best Commercial Building Putrajaya
2017 Suppose Citypogra Award for Putrajaya Suppose 2C5





FuturARC Green Leadership Award: Solaris (Fusionopolis)
 World Alliance of Sustainable Cities Design: Design Master
 AIA IR Design Awards, Hong Kong: Solaris, Fusionopolis
 NPark Leaf Certificate Awards: Solaris, Fusionopolis
 MGBC Excellence & Leadership in Sustainability Award
 ARCASIA Award: Honorary Mention, Industrial Building - DIGI
 Universiti Malaya - Honorary Doctorate in Architecture
 Green Building Index, Malaysia - Plaza VADS (Annex Block)
 RAIA International Architecture Award: Finalist - Solaris (Fusionopolis)
 Green Building Index, Malaysia: Gold - DiGi
 Council on Tall Buildings and Urban Habitat: Finalist
 RIBA International Award: Solaris, Fusionopolis
 Regional Holcim Award for Sustainable Construction: Putraiava Lot 2C

2011 Regional Holcim Award for Sustainable Construction: Putrajaya Lot 2C5
2011 WACA Gold Medal Award: Solaris (Fusionopolis)
2011 LEEDS Platinum status on the pre-certification for Spire Edge, India
2011 PAM Gold Medal Award: Solaris (Fusionopolis)
2011 PAM Award Commendation: Ganendra Art House
2011 Merdeka Award for the 'Environment' category
2011 Food Comment March Joseph J

2011 Fast Company, March Issue: TOP 10 Most Innovative Architect Firm

2010 Green Good Design Awards - Solaris (Fusionopolis)
2010 MATRADE Export Excellence Award: Services
2009 CNBC Asia Pacific Property Award: Spire Edge, Manesar, India
2009 BCA Green Mark Platinum Award: Solaris & Singapore National Library
2009 CNBC Asia Pacific Property Award: Best Residential Apartment - TTDI Plaza
2008 MARTRADE Export Excellence Award: Winning Entry - Solaris (Fusionopolis)
2007 ASEAN Energy Efficient Building Awards: 1st prize - 'New & Existing' Buildings
2007 BCA Singapore Silver Award: Universal Design
2006 Lynn Beedle Award (Council of Tall Buildings and Urban Habitat)
2006 Royal Institute of Chartered Surveyors (RICS) Award
2006 SIA Facade Design Excellence Silver Award: Singapore National Library
2006 MCIEA (Malaysian Construction Industry Award)

2006 MCIEA (Malaysian Construction Industry Award)
2005 BCA Singapore Green Mark Platinum Award: Green and Sustainable Building
2005 World Association of Chinese Architects (WACA): Gold Medal Award
2001 Hunter Douglas Competition (Open), Malaysia: Winning Entry
2000 Beijing World Science & Trade Centre Competition (Invited): Winning Entry
2000 Hunnary Macterplan Competition for Honsons Award, China: Winning Entry Huannan Masterplan Competition for **Hopsons** Award, China: Winning Entry **RAIA** International Architecture Award: Menara Mesiniaga

1996 Aga Khan Award for Architecture, Switzerland: Menara Mesiniaga





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