DESIGN MAGAZINE

APR 2023 A journal on green architecture, design ideas, discovery and innovation



ECOARCHITECTURE ECOMASTERPLANNING &

our product:

design ideas & innovations

our promise:

innovation lingenuity
 hypergreen sustainability signature **I**style well-being happiness cost control viability

[t] 03-4257 1966/ 1948

Contact

© T. R. Hamzah & Yeang Sdn. Bhd., 2023 8, Jalan 1, Taman Sri Ukay, 68000 Ampang, Selangor, Malaysia [f] 03-4256 1005 [e] trhy@trhamzahyeang.com

what others say about us?

in "design = e^2 ", PBS documentary, Episode 6

.. 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 <u>Ken Yeang</u> it is...

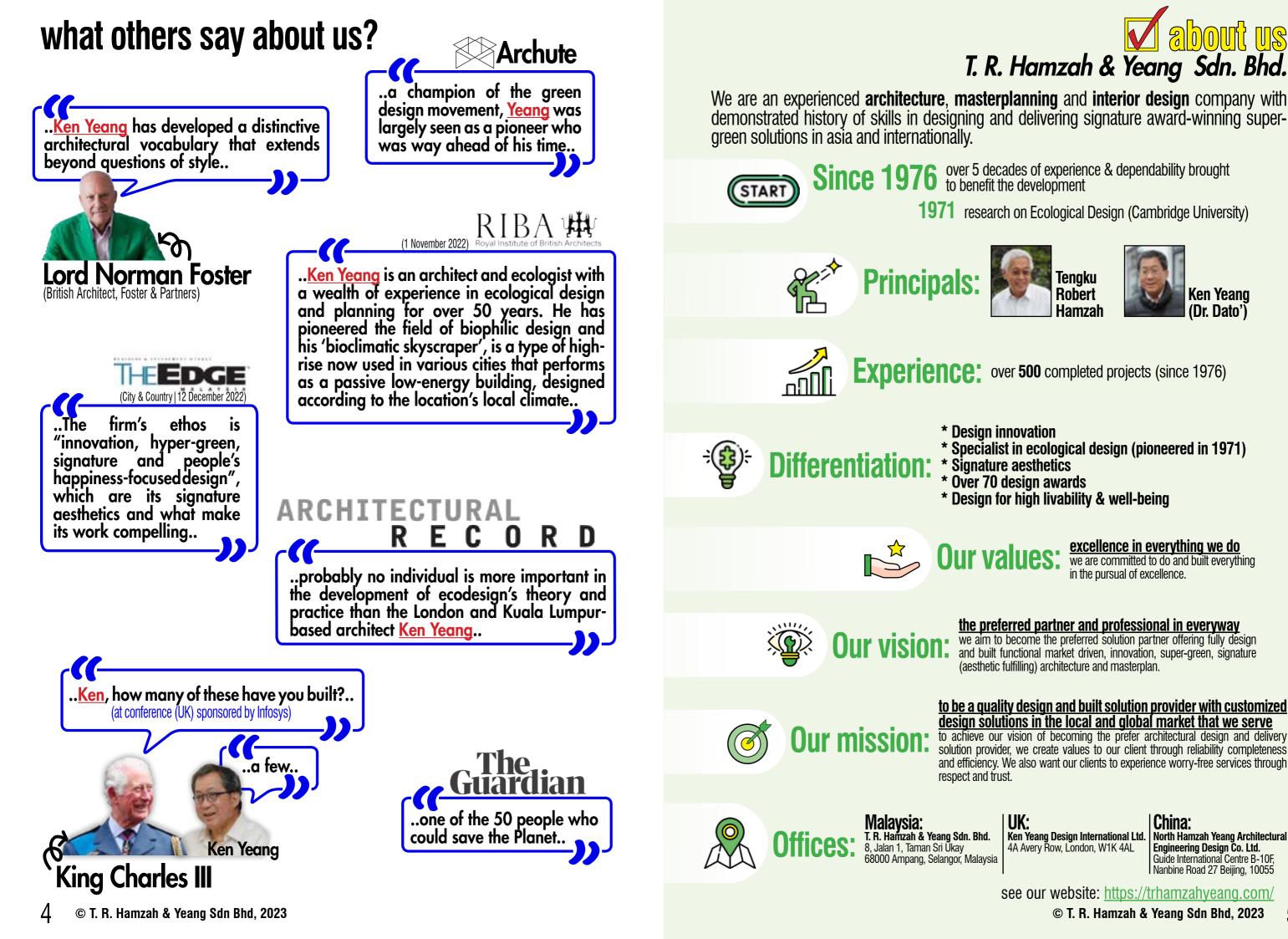




DESIGN MAGAZINE

Brad Pitt says -

APR 2023





Since 1976 over 5 decades of experience & dependability brought to benefit the development

1971 research on Ecological Design (Cambridge University)



Tengku Robert Hamzah



Experience: over 500 completed projects (since 1976)

* Specialist in ecological design (pioneered in 1971) * Signature aesthetics * Over 70 design awards * Design for high livability & well-being



excellence in everything we do we are committed to do and built everything

in the pursual of excellence.

the preferred partner and professional in everyway we aim to become the preferred solution partner offering fully design

and built functional market driven, innovation, super-green, signature (aesthetic fulfilling) architecture and masterplan.

to be a quality design and built solution provider with customized design solutions in the local and global market that we serve to achieve our vision of becoming the prefer architectural design and delivery

solution provider, we create values to our client through reliability completeness and efficiency. We also want our clients to experience worry-free services through



China: Guide International Centre B-10F, Nanbine Road 27 Beijing, 10055

5

see our website: https://trhamzahyeang.com/ © T. R. Hamzah & Yeang Sdn Bhd, 2023

Personal Awards

- 2005 WACA (World Association of Chinese Architects) Gold Medal Award
 2011 Merdeka Award for the 'Environment' category
 PAM Gold Medal Award
 2014 Design Master of World Alliance of Sustainable Cities Design (WSC)
 MGBC Leadership in Sustainability Awards 2014 for Excellence and Leadership in Sustainability
 2015 BCA-SGBC Green Building Individual Awards Green Architect Lifetime Achievement Award
 2016 Liang Sicheng Architecture Prize China
- 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
 2022 Australian Institute of Architect Leadership in Sustainability Prize

AA Dip. / APAM / FSIA / RIBA / FRSA / Hon. FAIA, D.Lit (hHon.) (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)



Ken Yeang received



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



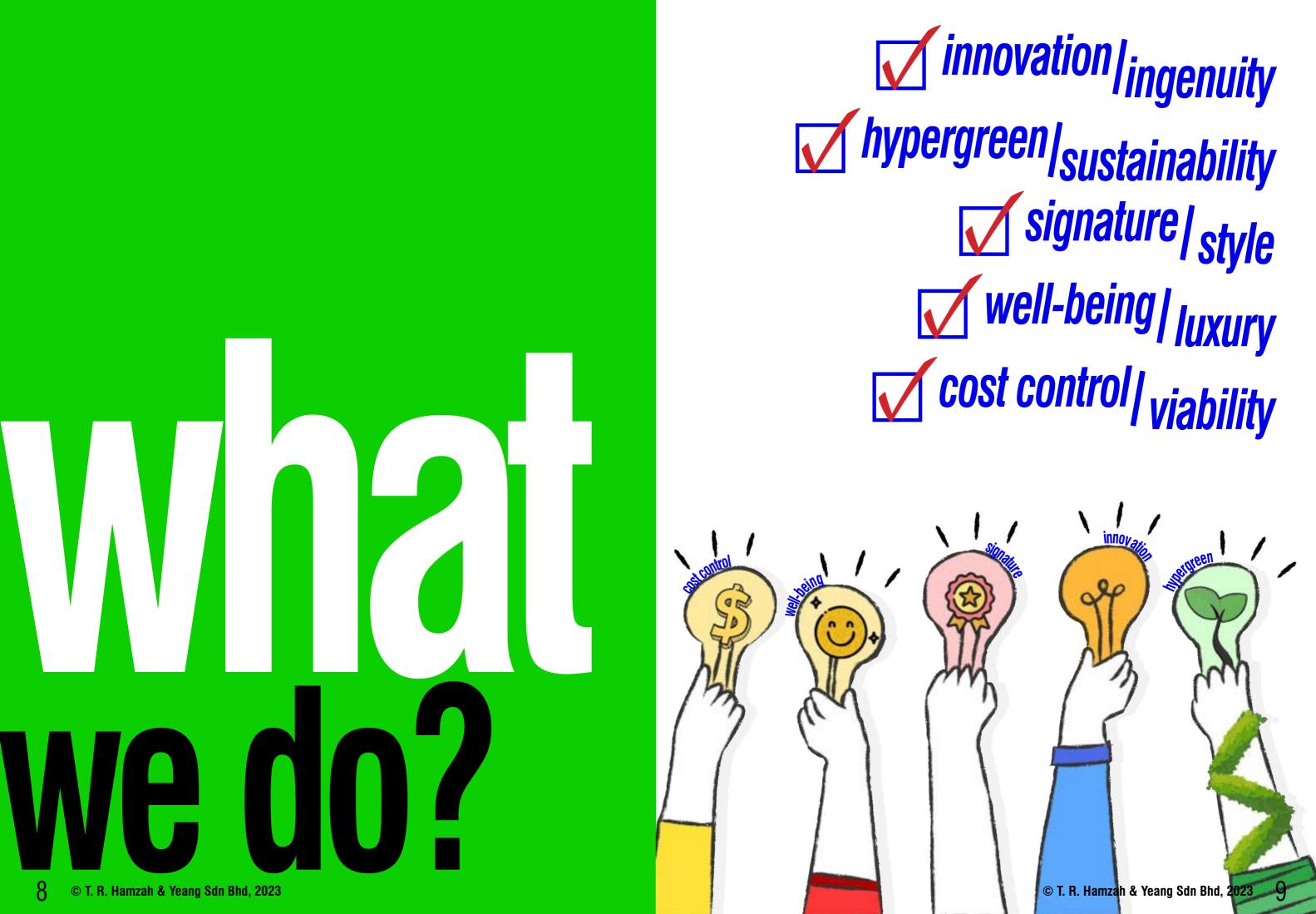
Our principal.. our chief executive officer

Ken Yeang is an architect and ecologist, known for his signature hyper-green architecture, a field he pioneered since 1971. His work is differentiated by an ecology-based approach that performs beyond conventional green-rating systems (LEED and others). His work has a visually distinct verdant green aesthetic that enhances the locality's biodiversity designed as constructed ecosystems.

The work has received numerous awards that include the Aga Khan Award, Prince Claus Award (Netherlands), LiangSiCheng International Award (China), Merdeka Award (Government of Malaysia), Malaysian Institute of Architects Gold Medal and other. His work seeks to advance the principles of ecological and bioclimatic architecture. He has authored over 12 books on the topic.

Following training was at the AA School (Architectural Association, London), he received a doctorate from Cambridge University, on ecological design and planning. He is an Honorary Fellow of Wolfson College. He is the Distinguished Plym Professor at Illinois University. The British newspaper, Guardian names him "one of the 50 people who could save the Planet'.

Receiving the Government of Malaysia Merdeka Award for the 'Environment' category (2011) from Prime Minister



what delights users and public?

verandahway

Complement the 'songket' glas canopy located at the covere strian arcade with retai at the bottom edge h block **give weath** rotection to pedest



central promenade

Active public realm with seating zones, planting areas as temporal event spaces and faces the retail and F&B spaces, and semi-covered seating areas. The tower blocks provide shadows sun-shading over the promenade for most parts of the day

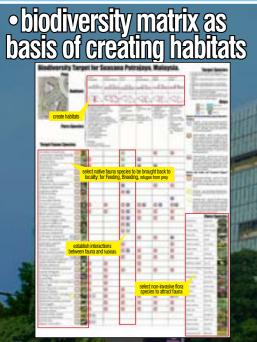


balconies with planter boxes

Facade openings are have protruding balconies with landscape planters to be visible from beyond the vertical glass sun-shading, and create random patterns on the overall facade.



what makes the building sustainable?



10 **SUASANA PUTRAJAYA** PUTRAJAYA PRECINCT 2. MALAYSIA

awards received by project • 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 Commorcial Building 2020





The photo shows the public enjoyment of building during Independence Day

by specialist expertise in low energy design





• glass sun-shading



The sunshade glazing also assist comfortable micro-climates in habitabl the building's exterior.







r tacades are taceted to pl

een ce





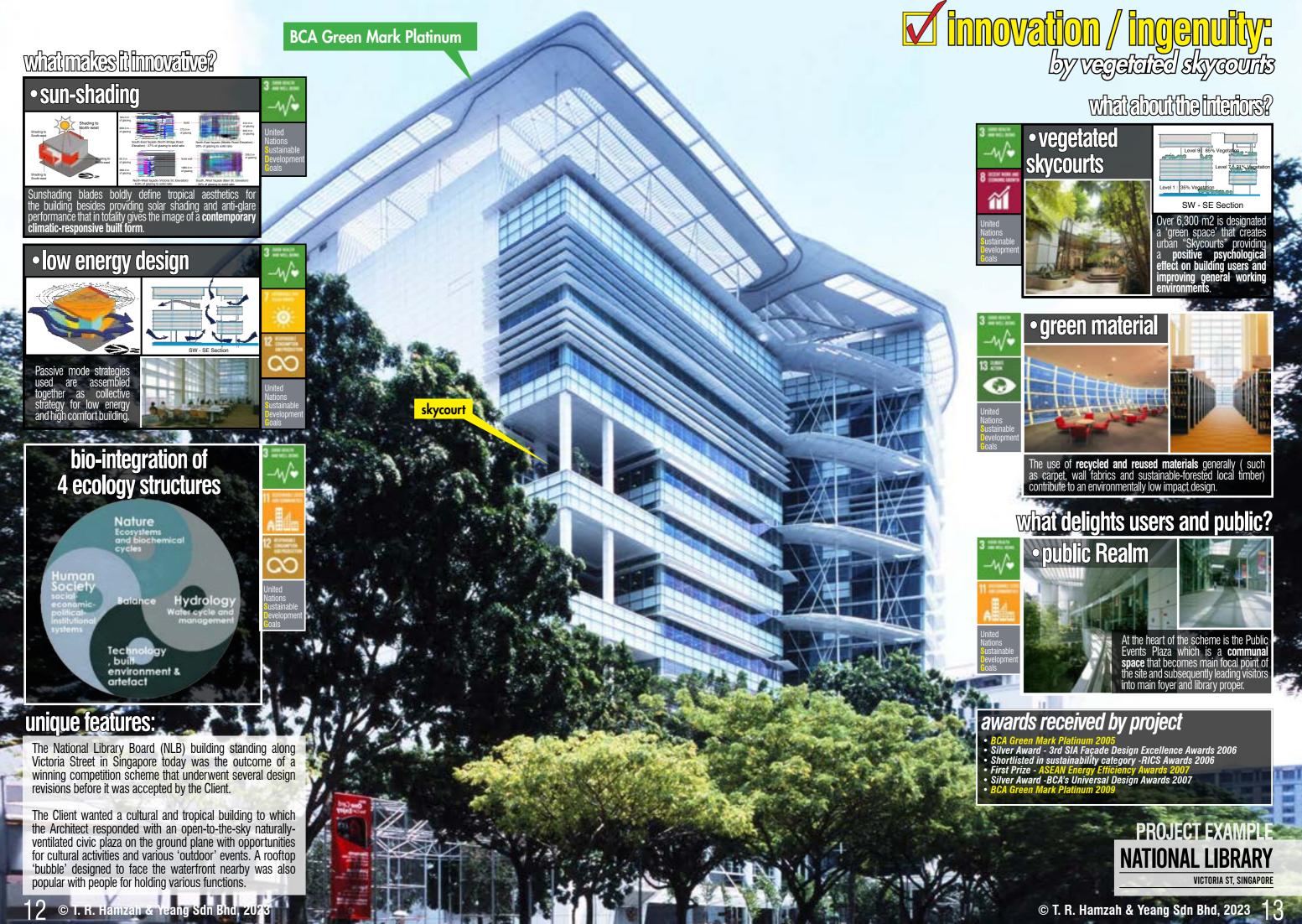
The continues vegetation **connects the green area** from _evel 1_retail_garden_down to Basement 2_level. and channels surface rainwater into a drain at Bathen will be pumped up back to ground level.

Natural daylighting Each block is centered by 8 storey high central Atrium. A rooftop glass canopy provides natural daylight not only to the entrance reception area but also to the office

stems within the . R. Hamzah & Yeang Sdn Bhd, 2023

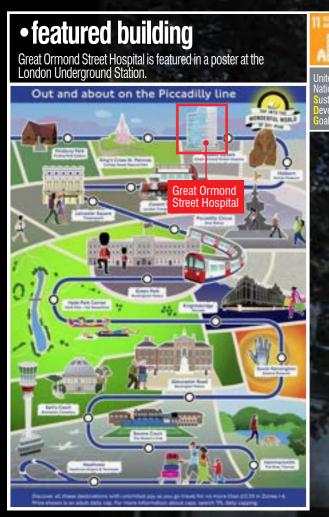
paces to provide maximum daylight penetration and

1 1 100 100



what makes it innovative?

• the "flue wall" Naturally ventilates the lower 3 floors during the mid-seasons (Spring & Autumn) and reduces annual energy consumption. 13 🚝 0



unique features:

The Great Ormond Street Hospital is located in London, the building is the first "Excellent" BRE-rated hospital in the UK. A key feature of the hospital extension is the flue wall which is an energy efficient fabric and ventilation system expressed on the façade facing Guilford Street. The design solution establishes a sense of order, ease of use, comfort and inspiration to the campus, providing facilities befitting Great Ormond Street's status as the world's leading tertiary children hospital.

BREEAM "Excellent" ratec

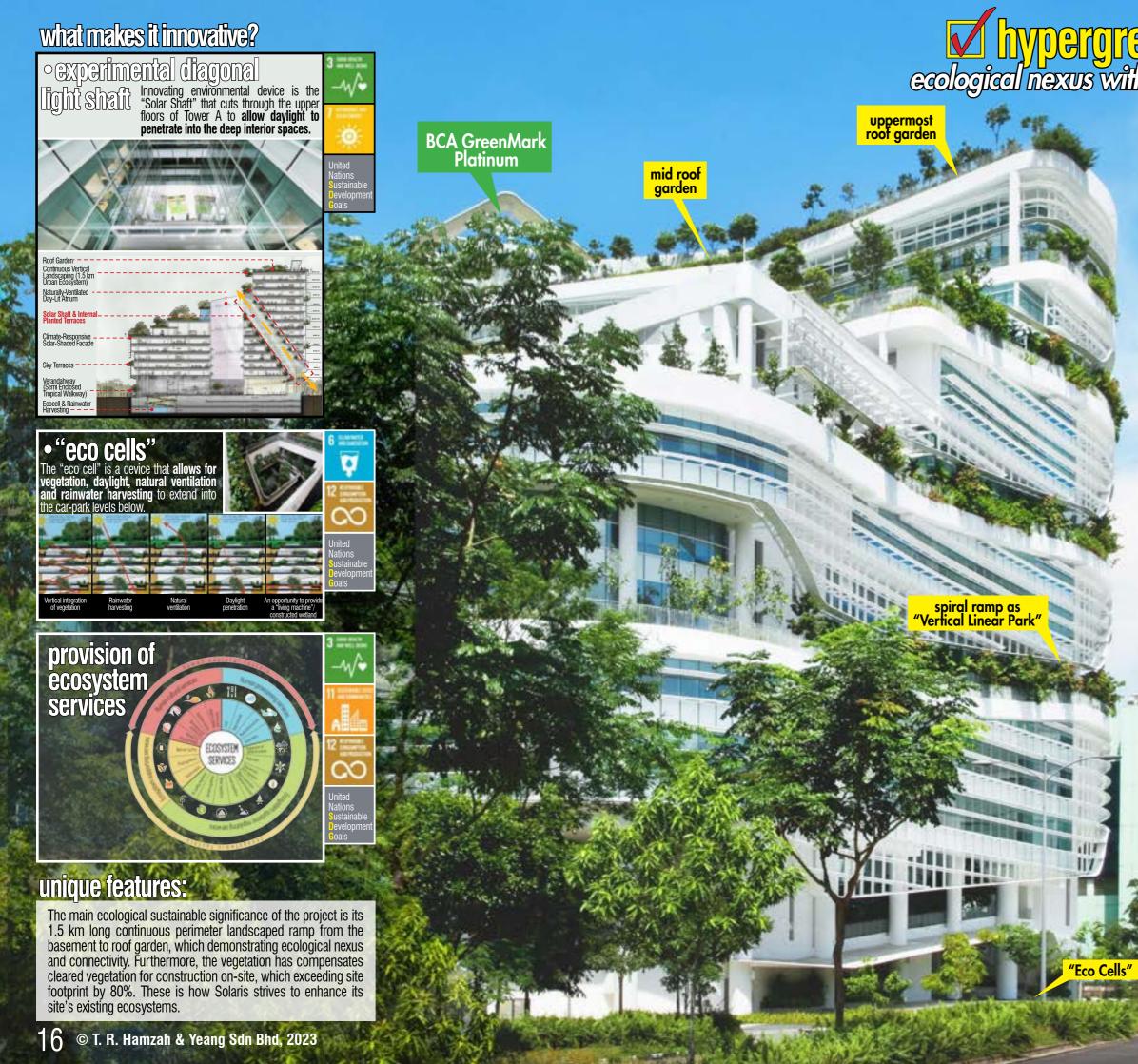
upper valve

by specialist expertise in low energy (mixed mode) hospital design

lower valve: mixed mode floors (3 floors

PROJECT EXAMP **GREAT ORMOND STREET HOSPITAL** LONDON, UK

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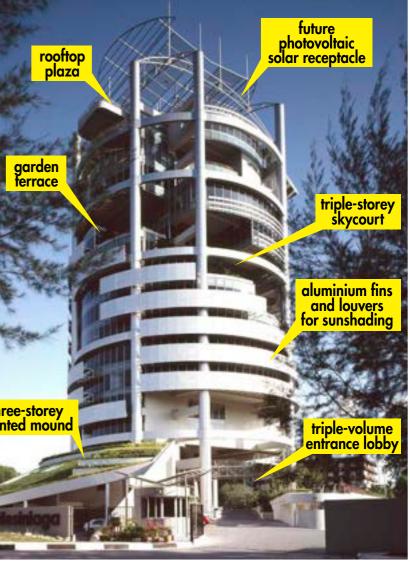


signature features:

Menara Mesiniaga is one of our early buildings that launched our work in ecological design as low-energy (bioclimatic) architecture and which received the Aga Khan Award. The year was 1992, and the building marked the beginning, both literally as well as figuratively, a new era in our work on deep green design.



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three-storey planted mound







Aga Khan Award for Architecture 1996









Well-being / luxury: retail without air-conditioning (mixed-mode cooling)

what makes it innovative? • extractor fan

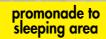






living area

pleasure pool



entrance

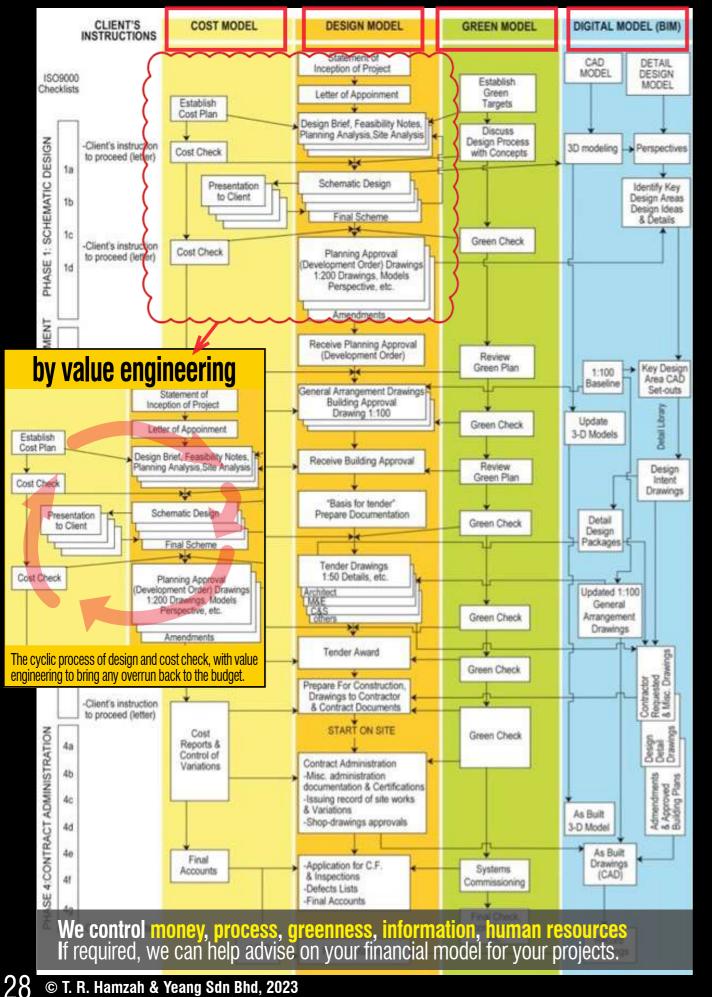
well-being / luxury. beyond user satisfaction

ante



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Cost control / viability: through value engineering at every stage...





example of assistance in financial modelling

Erample of assistan			uciling			-
1 Basis for Development						
Land Area						
a. Mixed Development	643,381	ft ²	59,772 m ²	14.77 ac		
Plinth Area	770,576	ft ²	71,615 m ²	17.69 ac		
Zoning	Commercial					
Proposed Plot Ratio (Subject to Approva	n		1:3.0	1,930,144 sqf		
	<u>117</u>		1.5.0	1,550,144 Sqi		
Proposed GFA Retail 20%	of Total GFA		386	,029 ft ²		
Office 30%	of Total GFA		579	,043 ft ²		
Residential 50% Total 100%	6 of Total GFA			<u>,072</u> ft ² ,144 ft ²		
2 Proposed Development -	Mixed-Deve	lopment				
	GFA ft ²	GFA m ²		ciency Typical Floor Efficiency	NFA NFA ft ² m ²	
Retail	386,029	35,876	% 70%	% 73%	270,220 25,113	
Office Residential	579,043 965,072	53,814 89,691	78% 80%		451,654 41,975 772,057 71,753	
			80%			
Total Area	1,930,144	179,381			1,493,931 138,841	
Car Dark Perwiromont for Detail						
Car Park Requirement for Retail Car Park Areas for Retail (GFA X 70% / 50	Osqf)				540 spaces	
Total Car Park Areas Required *assume	e 350ft ² /CPS		189,154 ft ²		540 spaces	
Car Park Requirement for Office						
Car Park Areas for Office (NFA / 500sqf) Total Car Park Areas Required *assume	e 350ft ² /CPS		283,731 ft ²		811 spaces 811 spaces	
Car Park Requirement for Residential Car Park Areas for Residential (65% X GFA	A / 500sqf)		965 Units		1,062 spaces	
	= 350ft ² /CPS		371,553 ft ²		1,062 spaces	
Total Car Parking Provided						
Car Park Areas for Retail			189,154 ft ² 283,731 ft ²		540 spaces	
Car Park Areas for Office Car Park Areas for Residential			371,553 ft ²		811 spaces 1,062 spaces	
Total Car Parking Provided = Car Park @ 6 Storeys Podium			844,438 ft ²		2,413 spaces	
4 Construction Cost Construction Cost for Mixed Dev Apartments (Medium-High End) Office	velopment	-	RM/ ft ² 310 320	Area 965,072 579,043 286,030	RM 299,172,258 185,293,786 55 514 893	
Retail Car Park Podium			170 100	386,029 844,438	65,624,882 84,443,783	
Amenities Sub-total			150	119,600 2,894,181	17,940,000 652,474,709	
	e RM1,000,000 / acre			2,094,101	14,770,000	key decision
Sub-total	RIVI1,000,0007 acre				667,244,709	factors:
Preliminaries	7%				46,707,130	
Contingencies Estimated Total Construction Cost	5%		324 psf	2,315,138	35,697,592 749,649,430	construction cost
						ounder double obt
5 Development Cost					RM	
Total Construction Cost for Mixed Develo		T. C. C. + 25% Soft			937,061,787	
Soft Cost: Dev. charges, consultants, mar Development Cost (excluding land cost)	keting, legal & agency	fees, site supervisi	on, financing charges, etc.	(Approx. 25%)	937,061,787	
Total Development Cost					RM 937,061,787	development cost
6 Financial Viability						
Estimated Income	Selling		NFA		RM	
Assume Retail Selling Price (TBC) Assume Office Selling Price (TBC)		1,200 1,200		,220 ,654	324,264,125 541,984,323	
Assume Residential Selling Price (TBC)		1,000		,057	772,057,440	sales price
Assume 20% of CPS to be sold @ RM40, Total GDV	000/bay	40,000		483 bays	19,301,436 1,657,607,324	GDV
-						
Residue - GDV - DEV. COST	=			(Excluding land co	720,545,536 st) 43.47%	
If Profit @ 25% of GDV	_				414,401,831	profit
If Profit @ 25% of GDV Land Value	=	476	psf		414,401,831 306,143,705	profit
					18.47%	land value/
						as residue
				© T. R. H	lamzah & Yeang Sdi	n Bhd, 2023 29

by assessing commercial viability as basis for design









Plaza VADZ (Male







landmark

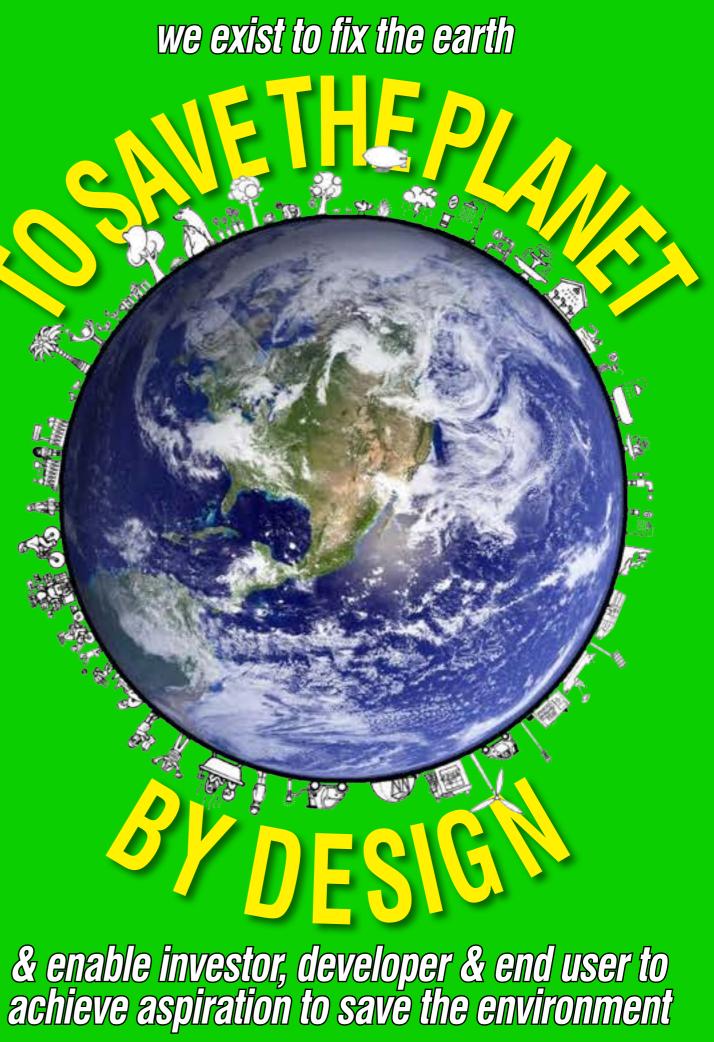
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SIGNATURE

vou get hypergreen projects



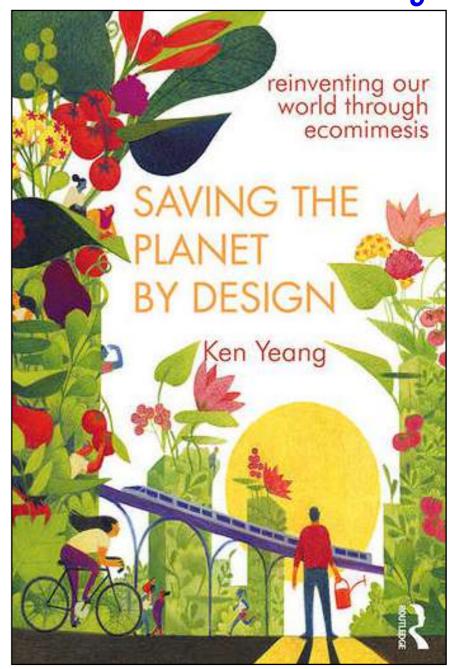




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Yeang, K., (2020), Saving The Planet By Design: Reinventing Our Cities Through Ecomimicry.

Introduction:

Can we 'save the planet' for a resilient, durable and sustainable future for human society? We need to repurpose, reinvent, redesign and remake our human-made world so that our built environment is benignly and seamlessly biointegrated with Nature to function synergistically with it. These are the multiple tasks that humanity must carry out imminently, if there is to be a future for human society and for all lifeforms and their environments on the Planet. Addressing this is the most compelling question for not just those whose daily work impacts on Nature such as architects, engineers, landscape architects, town planners, environmental policy makers, builders and others, but it is a question that all of humanity needs to urgently address.

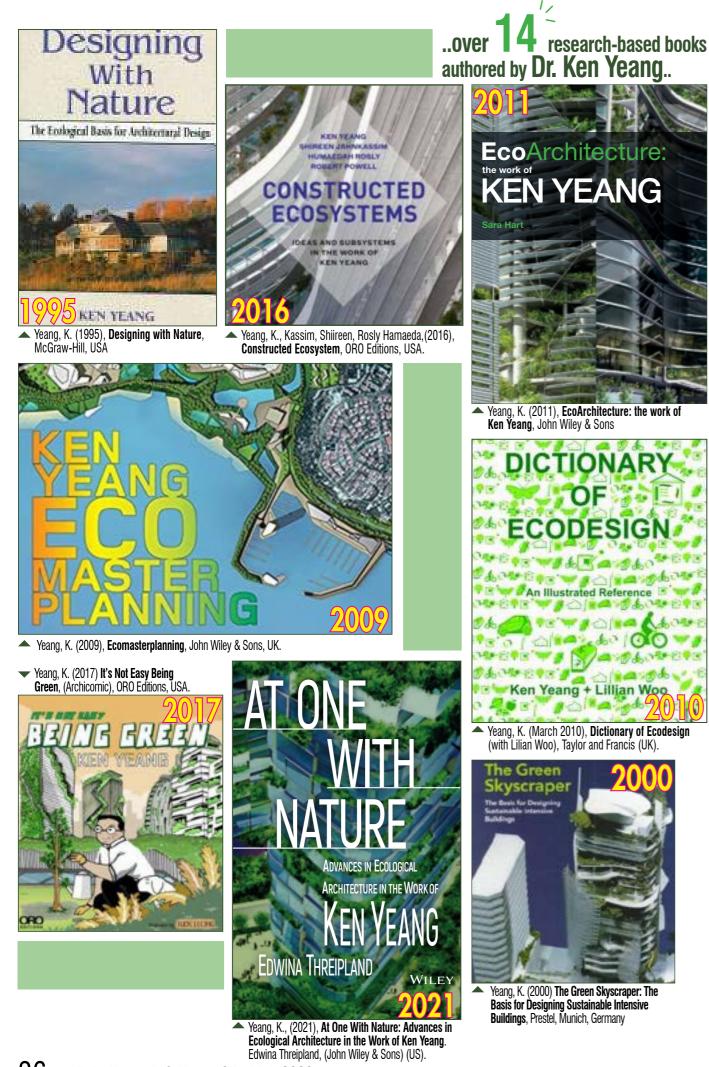
Presented here are two key principles as the means to carry out these tasks – 'ecocentricity' being guided by the science of ecology, and 'ecomimesis' as designing and making the built environment including all artefacts based on the emulation and replication of the 'ecosystem' concept and its attributes.

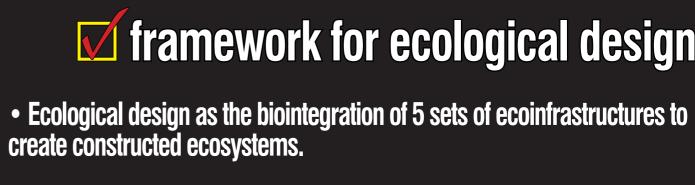
Designing with ecology is contended here as the authentic approach to green design from which the next generation of sustainable design will emerge, going beyond current use of accreditation systems.

For those who subscribe to this principle, this is articulated here showing how it can be implemented by design. The adopting of these principles is fundamental in our endeavour to save our Planet Earth, and changes profoundly and in entirety the way we design, make, manage and operate our built environment.

by research to advance field of sustainable design... our latest book on green design:

Routledge & Kegan (Taylor and Francis) (UK)

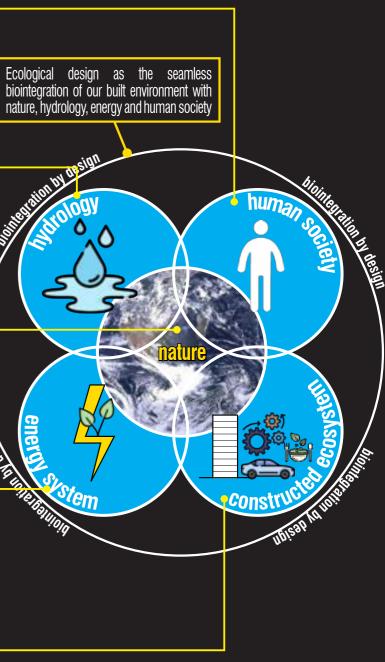




The key design fa	actors are the follo	wing:-
 economic ecological 	ly responsible behavior I responsible diet alth, well-being &	NWS (Net Well-being & Happy Society)
• water management	• waterways	NZW
 water conservation water reuse & recycling ground water rainfall 	• seas • snow • dew • lakes	(Net Zero Water)
• biosphere	habitats	
 biogeochemical cycles abiotic constituents biotic constituents ecosystems 	 Tabilats species biodiversity biomes 	(Net Positive Ecological Impact)
energy systems	ttop/	NI7E/C
 ambient electronic systems advance biofuels geothermal energy sm 	ttery drogen ssive mode systems xed-mode systems nart full mode systems oductive mode systems	(Net Zero Energy / Carbon)
constructed ecosys		
 technological systems built environment system artefacts recycling reuse carbon capture hydrogen production without emitting carbon 	 low embodied energy large scale electricity storage zero carbon steel zero carbon cement zero carbon fertilizer zero carbon plastic smart systems 	(Net Zero Waste / Emissions

General System Model

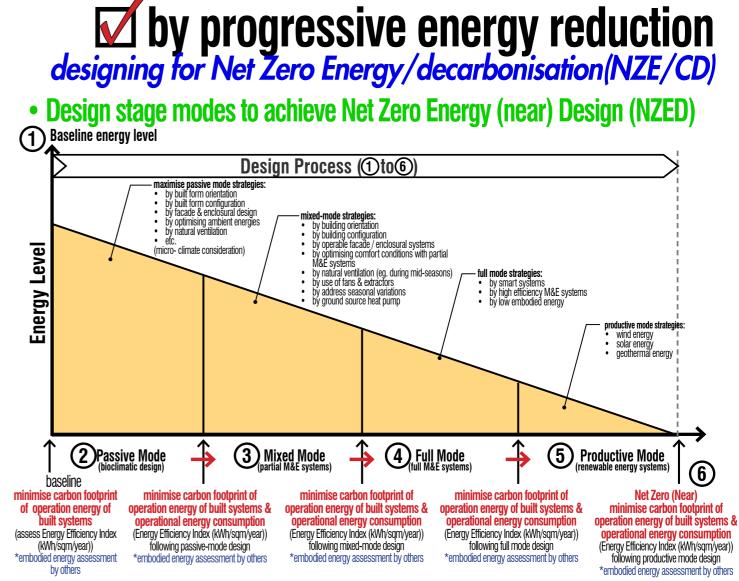
M framework for ecological design



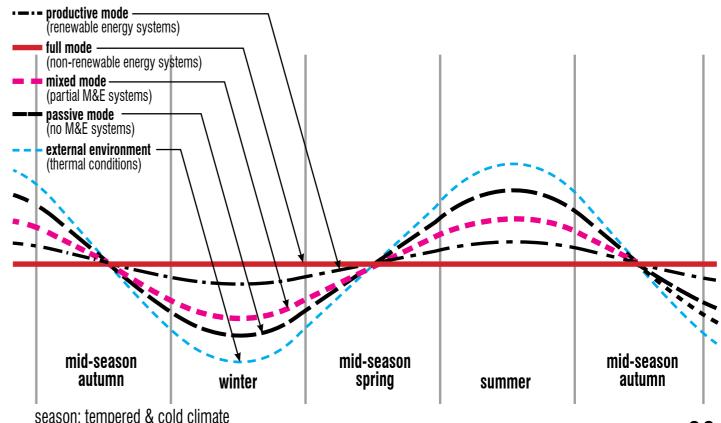
W by matrix of biodiversity target

• Example of Biodiversity Targets Matrix for design of habitats within development to enhance local biodiversity

Plan		-			1			5		
ATT C		Promenade	Level 1 External Planters	Land i Trees	Level 3 Tirors & Shruha	Level 3 Shruba	Land 6-13 Shruha		Target Spe	ation
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create ha	abitats	 Acalypha sie Ficus pumile Phylianthus 	a	Eucohyptus de- elutta	Shrubs Piceria alba	 Osnasjlon livere yellow 	lineare yel- low • Pisonia alba		Constant of the local division of the local	
The second s		 Spathiphylla Costus speci 	ani cansifollum iosus 'Marginatur'	Plameria obta si	 Pisonia alba Brumfeista cal- ycina 		 Vernonia ellip tica 	Ø	en 🕕 Recisi	
Flora Sp	ecies	Orthosiphon Brunfelsia ci Canna indic Vernonia ell Loropetalun Justicia genu Loro Tapiar	adyechna ca lightica n darasa				 Allamanda nerifolia Costas specio- suo 'Margina- tas' 	al Values: Playship' - versity of th are freed, meson, a	(Amenity Cultural Education of the second	e the bindle which they complexe
Target Fauna Specie	s	Turting Zoyski mate Axonopus o						ealue to pe	real" - Species of above spile in terms of its aist sity value: for example, a particularly melodior	sthetic val- r, a species
Cynopterus brachyotis Lesser Short-Nosed Fruit Bat	•			®		0	Ð	perfuges a p performe; or whole even	dant with particularly i reprcies contributing b releva arethetic such as	appealing to a valued "Testeres"
Streptopelia chinensis		D			B			erspends p	loaned beauty' to white suffrictly	AB society
Spotted Dove Geopelia Striata		_		-	-			early warni	ting' - species that ma- ing of threads to our or	over bealth
Zebra Dove Caprinulgus macrurus	Se se		fauna species j, breeding, re				Ø	examples in DOT, licher	a Canary in a coal min schole the Peregrine Fo a assemblages and salp	Falcon and place dise.
Large-tailed Nightjar Apus affinis		ecolod	gical survey o	f site and su	urrounding)	011		and water p	entities ediation de' and 'Ecosystem	
House Swift	IA				5/		Ø	Volume	m Princity'- species	
Megalaima haemacephala Coppersmith Barbet				₿		0	Ø	tindnersit for example	r value which may be r, on the basis of raris faily high-quality coar	e assessed, Ity or value
Aegithina tiphia Common Iora		12		C D		1		kind.		
Lanius schach Long-tailed Shrike	II. /						B	ate effect in thronound.	species having a dispe- the functioning of the	e local en-
Pynonotus golavier Yellow-vented Bulbul	LA	a a a a a a a a a a a a a a a a a a a	Ø	0	00		ØØ	ing concern	(US) - species of value ation related devisions, otecting three species (s, typically
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Copsychus saudaris				ØB		ct non-invasi			once of an overall balan convervation states.	
Oriental Magpie-robin Gerygone sulphurea				0 B	spec	cies to attrac	it lauria	Facilità dans	Flora Spe	cies
Golden-bellied Gerygone Orthotomus sutorius	-		-			-		Cassipeir Jims	Legol Ter	
Common Tailorbird	₩,	ă	_					Eurolypia Agligna	Rabber scolypta	
Anthreptes mulacensis Brown-throated Sunbird	establis	sh interactio	ons between		Ð	B	8	Parent in	Pargini	-30
Anthreptes Simplex		a, fauna anc		Ø			Ø	Zejevelu unbis	Dairy Dy	1
Cinnyris jugalaris Olive-backed Sunbird		Ð	Ø	•	Ð	Œ	Ø	Notes and the second se	New Galation	10
Dicaeum cruentatum				Ø	Ð	Ø	Ø	Ficu puertu	Crenty la	
Scarlet-backed Flowerpecker 🔛 Appias libythea olferna		Ø	Ø	-	Ø	-	-	Pylastu systélu	Moustral plant	100
Striped Albatross Catopsilia pomona pomona			-	-		-	-	Spatiplyfor anglian	Inaily	
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Painted Jezebel Euploea mulciber mulciber Striped Blue Crow			Ø	Ð	Ð			Leptile	Payle Darsed	
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Great Eggfly Junonia almana javana Peacock Pansy		Ð	Ø	Ø	Ð		TIP		les lus	
Great Eggfly Junonia almana javana		10	Ð	scape cond			No.		- E	



• Thermal comfort conditions in relation to design mode



season: tempered & cold climate

(case-study: Solaris, Singapore) Green Mark Platinum



annual energy savings

Reference(MWh/year)	Proposed (MWh/year)	Energy saving	
2,861,45	1,313.58	54.09%	
5.14	3.96	23.01%	and a
699.87	239.41	65.79%	
239.5	98.95	58.68%	- 100
43.54	43.54	0.00%	10-10
191.39	65.21	65.93%	1
1,845.84	1,845.84	0.00%	1
41.01	41.01	0.00%	
17.33	17.32	0.00%	
647.62	582.86	10.00%	-
2,348.98	1,410.84	39.92%	
8,940.98	5,662.52	36.67%	
Reference (Tons)	Proposed (Tons)		
1,998.55	1,667.65	16.56%	
	2,861,45 5.14 699.87 239.5 43.54 191.39 1,845.84 41.01 17.33 647.62 2,348.98 8,940.98 Reference (Tons)	2,861,45 1,313.58 5.14 3.96 699.87 239.41 239.5 98.95 43.54 43.54 191.39 65.21 1,845.84 1,845.84 41.01 41.01 17.33 17.32 647.62 582.86 2,348.98 1,410.84 8,940.98 5,662.52 Reference (Tons) Proposed (Tons)	2,861,45 1,313,58 54.09% 5.14 3.96 23.01% 699,87 239.41 65.79% 239.5 98.95 58.68% 43.54 43.54 0.00% 191.39 65.21 65.93% 1,845.84 1,845.84 0.00% 41.01 41.01 0.00% 17.33 17.32 0.00% 647.62 582.86 10.00% 2,348.98 1,410.84 39.92% 8,940.98 5,662.52 36.67% Reference (Tons) Proposed (Tons)

annual water savings

Items	Reference(m ³)	Proposed (m ³)	Saving (m ³)	
Water efficient fittings	54,752	42,970	111,782	
Rainwater collection	0	-3,105	3,105	
AHU Condensate	0	-904	904	
Total	54,752	38,961	15,791	1

estimated annual savings = SGD 655,692 (energy) + SGD 36,335 (water) SGD 692,047 / USD 530,000

"..the vertical linear park .."



(case-study: Suasana Putrajaya, Malaysia) Green Building Index Silver rating

reduction of energy cons	sumption	Purpose	Provided	Req/ baseline	Unit	
Reduction of energy consumption:						
 Façade of the building, roof & skylights; Motion sensor in the fire staircase & 	1. To reduce heat g (Overall Thermal	jain I Transfor Value)	OTTV= 29.11	<50.00	W/m ²	
toilets;	2. To reduce energy	y consumption	RTTV= 20.88	<25.00	W/m ²	
 Lighting zoning & photocell sensor in the office area.; LED & TE historical is the office. 	(Roof Thermal T 3. To reduce energy	y consumption	LEI= 30.21	38.55	kWh/yr/m²	
 LED & T5 light fitting in the office, common areas & façade lighting. 	(Lighting Energy 4. To reduce energy	y consumption				alla alla
 ACMV: thermal setting & efficiency Plug load (energy consumption) 	Humidity level of		A/Cei= 58.57	92.57	kWh/yr/m ²	
 Building Energy Intensity (BEI) BCS (Building Control System) installation in the Control Room; 	can generate 60'6. To measure the e7. To encourage en	energy efficiency of a building. hancement of building EE reducing CO2 emission	BEI= 136.00	<150.0	kWh/yr/m²	cocell'
reduction of w	ater consul	mption				
		Purpose		Provided	Req/ baseline	Unit
Reduction of water consult1. Water efficient fitting w water flow rate2. RWHT system for land3. Installation of 'Condens recovery'4. Landscape irrigation system	ith minimum 1 2 scape irrigation 3 sate Water 4	 To harvest rainwater for landscape To harvest clean water for landscape 	e irrigation ape irrigation ption by using: ead of sprinkler sy	32,900 11,055 6,000 30,879 55.00%	55,477 - - >50.00	m³/yr m³/yr m³/yr m³/yr (demand %reduction

"..the daylight central atrium .. "

energy reduction & cost saving by effecting energy, water and cost savings...

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

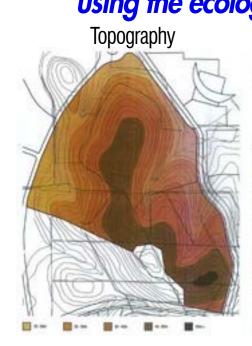


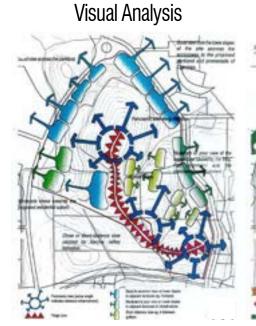




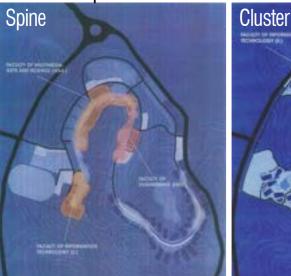


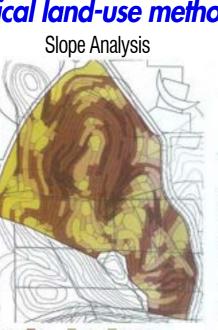
designing to conserve the site's ecology using the ecological land-use method





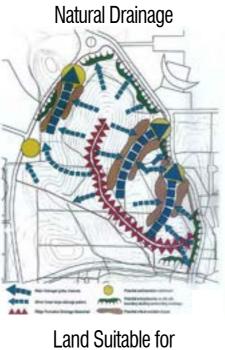


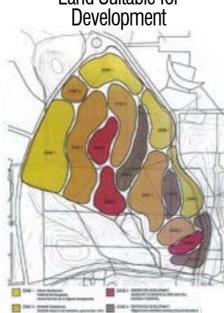




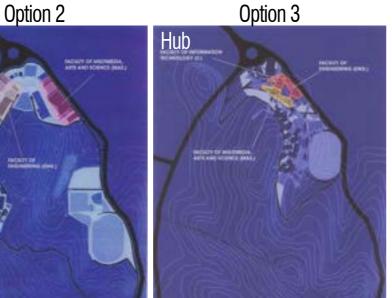
Access Point to

Site Orientation

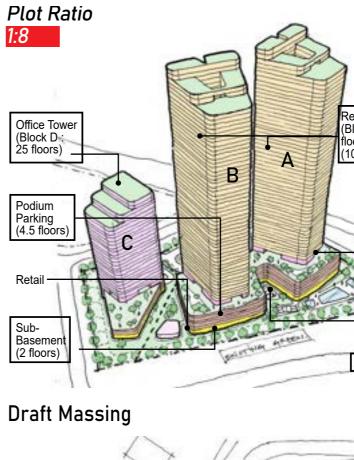




Option 3



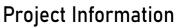
designing to optimise builtform options example of basis for design





Site Plan

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M alternative aesthetic options

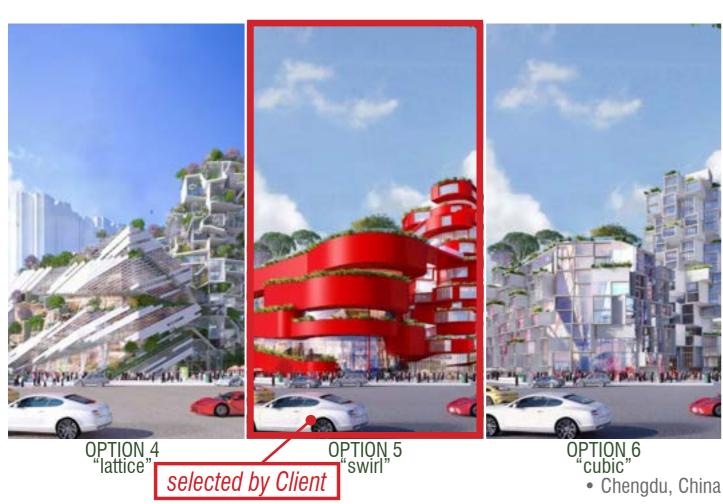


example of rooftop for a luxury apartment project: **ZONE 1: 4 POOLS** 1. "Caribbean, Calypso"





OPTION 1 "double helix"



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generating marketing themes



2."Copacabana, Ipanema"

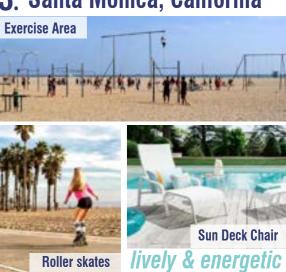






calm & relaxing

3."Santa Monica, California"





I fixing the planet for future generation

... We are the only architect firm worldwide **ECOLOGICALLY**delivers that AUTHENTIC SIGNATURE 'SUPER ARCHITECTURE **GREEN'** AND **MASTERPLANS** for environmentally-aware INVESTORS, who want SIGNATURE **DESIGNS** that are aesthetically unique, identifiably world class, pleasurable to use, **SUPER GREEN** (beyond rating & DELIVERED systems), innovative PROFESSIONALLY on time, on budget that are durable and built with high quality...

C creating high-value products



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



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



Functional rationale for ownership of designed product



	Australian Institute of Architect - 2022 Le The Edge Malaysia-PAM Green Excellence Putrajava Suacana (205)	
2021	- Putrajaya Suasana (2C5) PAM Gold Medal Award 2020: Commercia	l (Hiah Rise
	- Putrajaya Suasana (2C5)	. (
	ASA Gold Medal	an autod hu
2020	Global Forum on Human Settlements (su Development) Planning and Design for Put	pported by traiava Sua
2020	Global Forum on Human Settlements (su	pported by
	Development) Outstanding Contribution	
2020	Malaysia Green Building Council Best Re Malaysia Green Building Council Best Co	search mmoroial P
	Cityscape Award for Putrajaya Suasana 20	
2016	Liang Sicheng Architecture Prize, China	
2016	FIABCI World Prix d' Excellence Awards: S	olaris (Fusi
2016	PAM Award Commendation: Single Reside	ntial - R-Ho Conturn
2010	40th Most Famous Architects of the 21st The Malaysian Construction Industry Exc	oeniury ellence Awa
2015	BCA-SGBC Green Building Individual Award	ds: Green A
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LUUY UNBU 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 Royal Institute of Chartered Surveyors (RICS) Award **2006** SIA Facade Design Excellence Silver Award: Singapore National Library 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** Huannan Masterplan Competition for **Hopsons** Award, China: Winning Entry 1996 RAIA International Architecture Award: Menara Mesiniaga **1996 Aga Khan** Award for Architecture, Switzerland: Menara Mesiniaga

value from our award winning experiences ...over 70 awards in 25 years..

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Putrajaya Suasana (2C5)

minent Plaver Lifetime



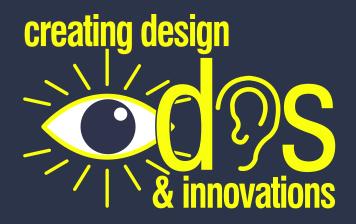
Receipt of Merdeka Award (2011) from Prime Minister (Malavsia

RC Green Leadership Award: Solaris (Fusionopolis) Alliance of Sustainable Cities Design: Design Master Design Awards, Hong Kong: Solaris, Fusionopolis Leaf Certificate Awards: Solaris, Fusionopolis Excellence & Leadership in Sustainability Award SIA Award: Honorary Mention, Industrial Building - DIGI siti Malaya - Honorary Doctorate in Architecture Building Index, Malaysia - Plaza VADS (Annex Block) ternational Architecture Award: Finalist - Solaris (Fusionopolis) Building Index, Malaysia: Gold - DiGi **I on Tall Buildings and Urban Habitat**: Finalist ternational Award: Solaris, Fusionopolis al Holcim Award for Sustainable Construction: Putrajaya Lot 2C5 Gold Medal Award: Solaris (Fusionopolis) Platinum status on the pre-certification for Spire Edge, India old Medal Award: Solaris (Fusionopolis) ward Commendation: Ganendra Art House ompany, March Issue: TOP 10 Most Innovative Architect Firm **Good Design** Awards - Solaris (Fusionopolis) **DE** Export Excellence Award: Services

al Library



Putrajaya Suasana (2053) is used as the backdrop for Honder's advertisement for their latest model. \odot T. R. Hamzah & Yeang Sdn Bhd, 2023 49



Our vision:

"to be architect-of-choice to deliver hypergreen, signature and innovative architecture and masterplans."

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