CONSTRUCTION INDUSTRY LANDSCAPE WITH **ARCHETYPE Myanmar**

CAMBODIA | CHINA | FRANCE | INDIA | INDONESIA | KAZAKHSTAN | LAOS | MONGOLIA | MYANMAR | PHILIPPINES | QATAR | SINGAPORE | SRI LANKA | THAILAND | VIETNAM





Contents

- About Archetype Group

- Archetype Projects =

- About Permitting and Codes

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- Initiatives proposed for the construction industry in Myanmar - Eurocham Construction advocacy group - CTBUH = Council on Tall building and Urban Habitat - Environment and sustainability with "The Edge" certification

> PAST / PRESENT / FUTUR Built / Under construction / Starting



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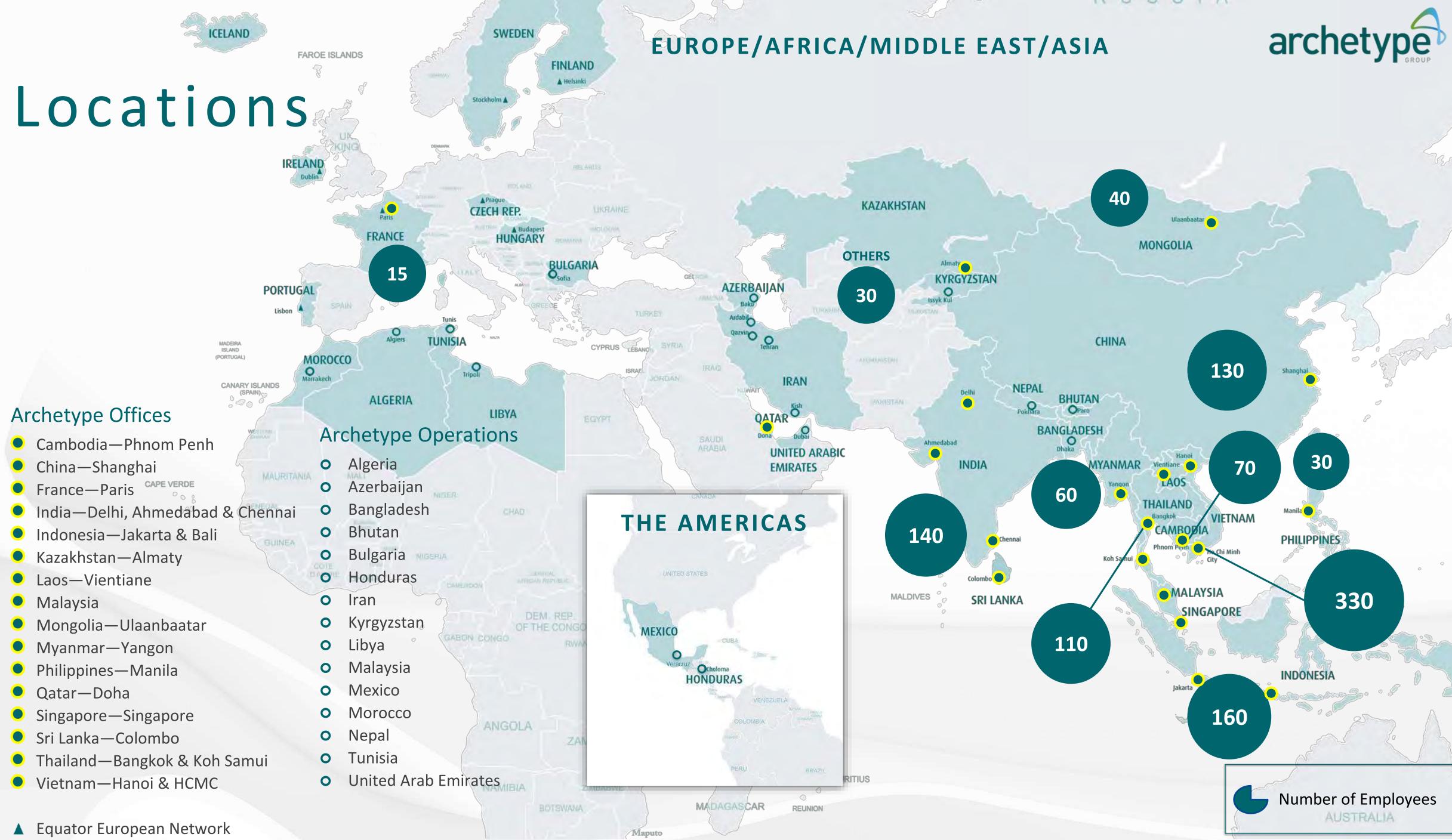




Top 100 Architects

1100 Employees

15 Countries



RUSSIA



Archetype Group Scope of Services

Building &

Infrastructure

Engineering

Architecture & Planning

Architecture

- Site Evaluation
- Pre-feasibility & **Feasibility Studies**
- Strategic Programming
- Conceptual Design
- Architectural & **Detailed Design**
- Architectural Peer Review
- Interior Design
- Landscape Design
- Renovations

Master Planning

- Special Analysis & Interpretation
- Feasibility Studies
- Regional Master Planning
- Urban & Local Planning
- Integrated Resort Planning
- Detailed Planning Design
- Liaison with **Approving Bodies**
- Assistance with Submissions

Mechanical & Electrical

- Sustainability & Green Building Engineering
- Infrastructure & Utility Engineering Design
- High & Low Voltage Reticulation
- Air Conditioning, Ventilation & Extraction
- Hydraulics & Plumbing
- Water and WWT
- Fire Prevention & Control
- Security & Telecom Systems

Civil & Structural

- Geotechnical Evaluation
- Site Drainage & Disposal
- Earth Retaining Structures
- Piling & Foundation Design
- Heavy & Light Steel Design
- Seismic Retrofits

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Industrial &

Process

Engineering

Project & Cost Management

Project Management

- Design Mngt
- Value Engineering
- Program Mngt
- Material Procurement Mngt
- Contract Administration
- Construction Mngt
- Health & Safety
- Scheduling and Coordination
- Quality Control
- Commissioning & Hand-over Mngt

Cost Management

- Quantity Survey
- Bills of Quantity
- Cost Estimation
- Tender Management
- Contract Management
- Procurement Strategy
- Final Accounts
- Construction **Budget Audit**

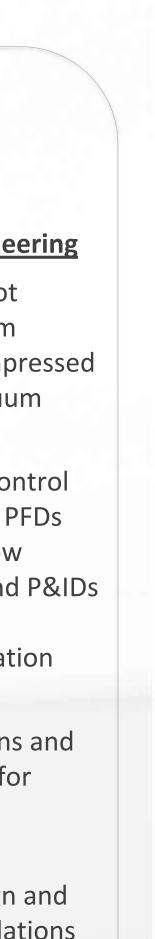
General Industrial

- Site evaluation, due diligence and feasibility study
- Full in-house engineering
- Master plan and logistic optional design
- Value conceptual engineering
- **Basic and Detailed** Design
- GMP and food safety standards compliant design
- Energy modeling

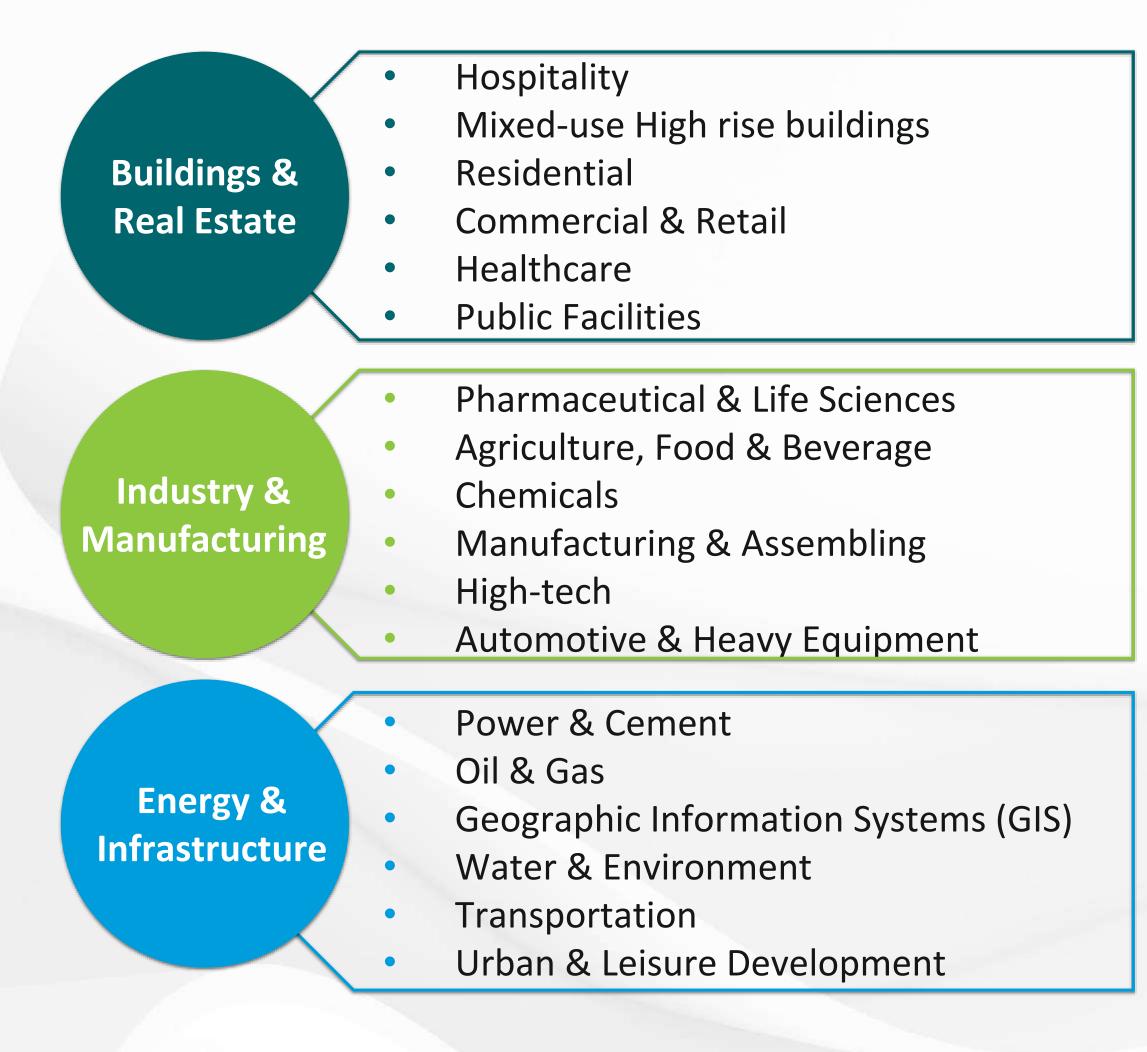
Process Engineering

- Design of hot water, steam supply, compressed air and vacuum systems
- Process & control philosophy, PFDs (Process Flow Diagram) and P&IDs (Piping and Instrumentation Diagram)
- Specifications and datasheets for different equipment
- Piping design and stress calculations
- HAZOP studies
- HYSYS simulation





Archetype Markets & Sectors





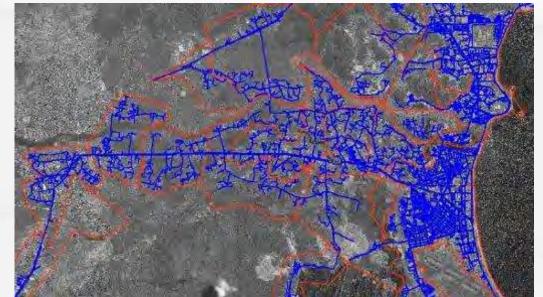


















EUROCHAM Myanmar Advocacy Group:







Advocacy Working Division Group Members: **Construction Group**

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Sectors:

Design & Standards

Environment

Safety





EUROCHAM Construction Advocacy Group:

Royal Haskoning

Lafarge Holcim

Sika Myanmar

Schneider Electric

Jardine Schindler

archetype

Archetype Group

Bouygues

Bureau Veritas

Legrand





5. Enforcing construction safety



EuroCham-White Book Construction Issues:

1. Developing laws and standards 2. Balancing Growth and Environment 3. Safeguarding Urban planning 4. Preservation of heritage:



Archetype Myanmar= country representative for CTBUH



archetype

Council **Tall Buildings** and **Urban Habitat**



About CTBUH

-

-

- Shanghai, and a Research Office at luav University in Venice, Italy.
- network of international representatives.
 - for architects, engineers, and builders of future cities.
 - Building."
- offices around the world

archetype

The Council on Tall Buildings and Urban Habitat is a not-for-profit organization, founded in 1969 and based at Chicago's Illinois Institute of Technology, CTBUH has an Asia Headquarters at Tongji University,

CTBUH facilitates the exchange of the latest knowledge available on tall buildings around the world through publications, research, events, working groups, web resources, and its extensive

The Council on Tall Buildings and Urban Habitat became the world's leading resource on tall buildings

The CTBUH is recognized as the arbiter for defining such designations as "The World's Tallest

The CTBUH organizational member network included 1,333,155 individuals working in 9,050





- Valuable networking opportunities
- Access to the latest state-of-the-art concepts, developments and technical information
- Receive complimentary and/or discounted registration at CTBUH events congresses, conferences etc, for educational and business networking purposes

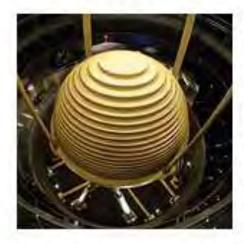
Involvement in working groups and other committees



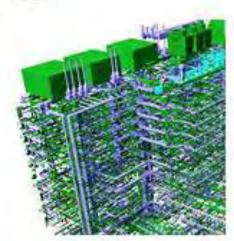




Current Working Groups



Building Damping Technologies



Building Information Modeling



Demolition



Façade Access



LCA of Structural Systems



Sustainability



Legal Aspects of Tall Buildings



Performance Based Seismic Design



Security



Tall Timber

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Completed Working Groups



Fire & Safety







Outriggers

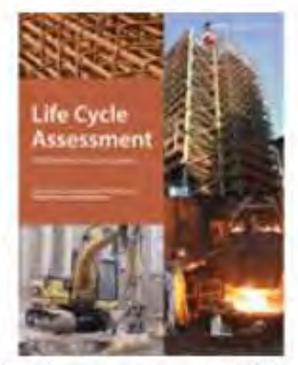
Research, Academic and Postgraduate

Seismic Design

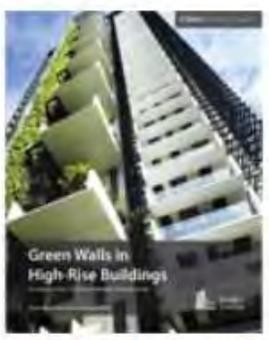


Wind Tunnel Testing





Life Cycle Assessment (2015)



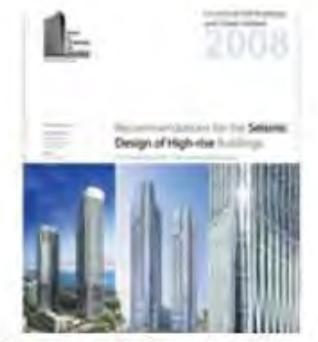
Green Walls Guide (2014)



Wind Tunnel Testing Guide (2013)



Natural Ventilation Guide (2012)



Recommendations for Seismic Design (2008)



Emergency Evacuation Guidebook (2004)



Vertical Greenery (2015)



Building Safety Guidebooks (2002)



Research papers



Housing

Seoul Conference; Jeong-Yoon Byun, Deok-Gi Jung, & Jung-Lo Park, Hanyang University; et al. The government adopted a policy to build urban-type residence with an objective to

From Eyesore to Urban Asset: The Transformation of Abandoned Railroad Structures in American Cities

The high-line is a new 1.5-mile long public park built on an abandoned elevated railroad stretching from the Meatpacking District to the Hudson Rail Y... Download Paper



Hearst Headquarters: Innovation and Heritage in Harmony

WSP Cantor Seinuk This paper describes the challenges met in preserving the façade and how the choice of a diagrid system - a highly efficient triangulated truss tube s... Download Paper



Balancing Life Safety with the Historic Preservation of Tall Buildings

Seoul Conference; Milosh Puchovsky, NFPA Balancing life safety with historic preservation goals in historic buildings presents unique challenges. These challenges are further compounded when ... Download Paper

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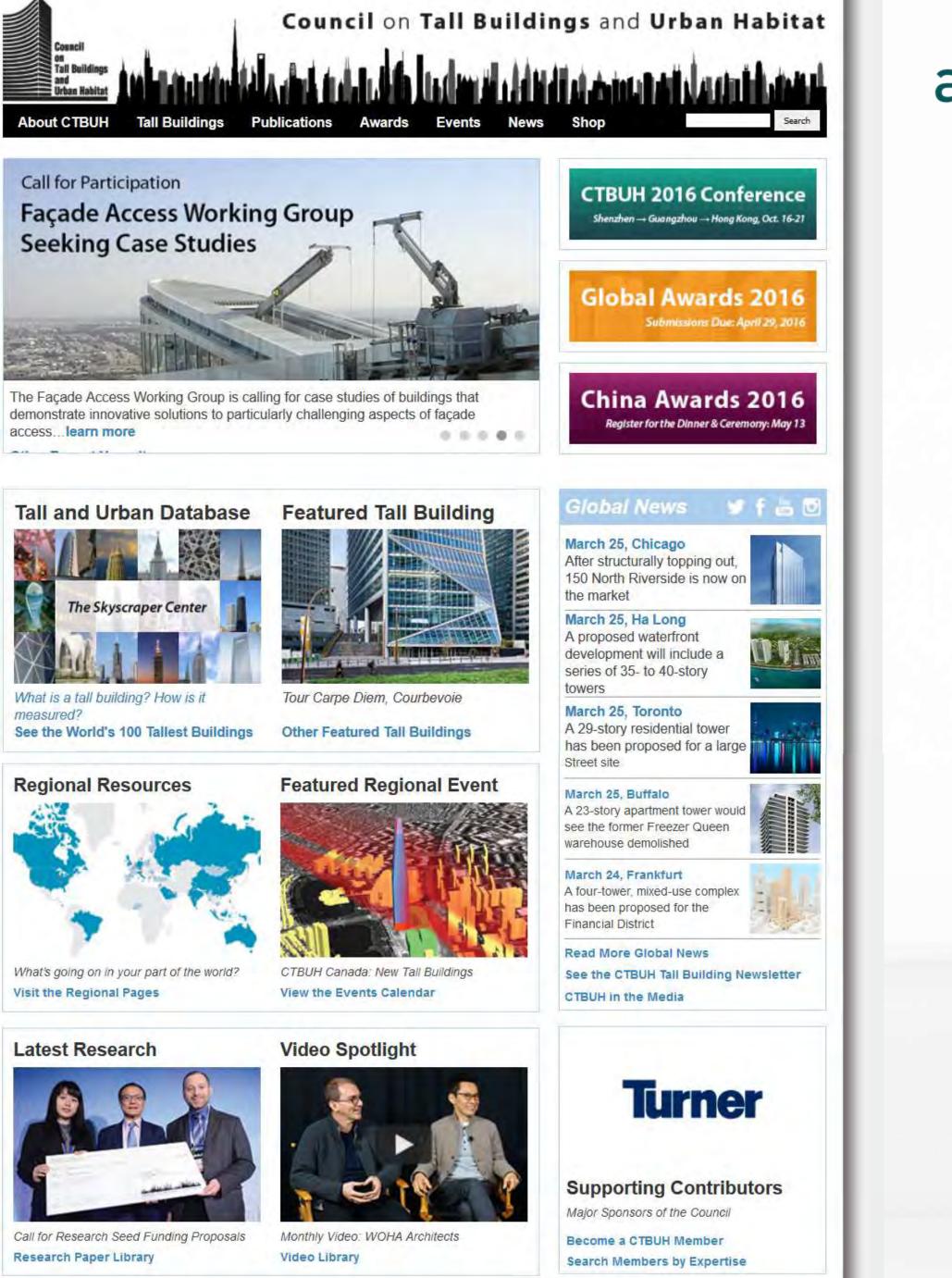
A Study on Improving Living Environment of Urban - Cases of Multi-Family

Robert Lau, Roosevelt University

8th World Congress, Dubai; Ahmad Rahimian & Yoram Eilon,



CTBUH.ORG Resource Centre





Skyscraper Center

The Council's free database on tall buildings, The Skyscraper Center, is updated daily with detailed information, images, data, and news.





Tall Buildings

archetype

The Skyscraper Center

The Global Tall Building Database of the CTBUH

Countries Cities Buildings Companies Interactive Data Search Submit Data

Tall Buildings

earch Buildings & Companies

Click a region for tall building information

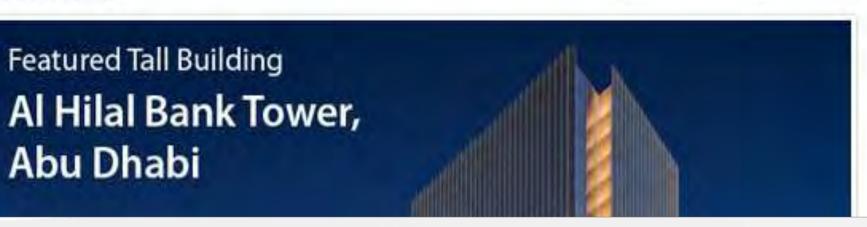
Quick Facts - Global Tallest Building: Burj Khalifa, Dubal, 828 m # of 300m+ buildings: 94 # of 200m+ buildings: 980 # of 150m+ buildings: 3,327 Interactive Data - Global Completed Tallest Buildings Tallest Buildings Under Construction Tallest Buildings Proposed Tallest Buildings Demolished All Tall Buildings

Click a region for tall building information

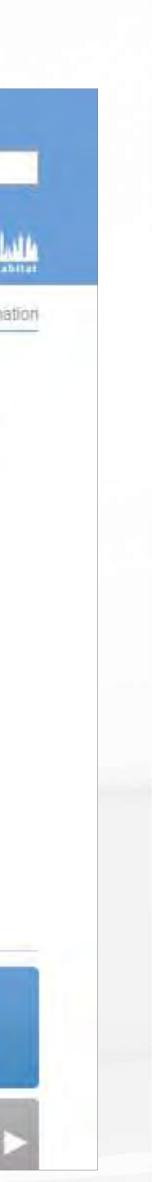
Quick Links

Height Criteria Þ Þ Þ Rules and Definitions Used for Tall Buildings

100 Tallest Buildings ► ► ►











GREEN BUILDINGS FOR A SMARTER WORLD

www.edgebuildings.com



Excellence In Design For Greater Efficiencies





International Finance Corporation WORLD BANK GROUP



EDGE MAKES IT FASTER, EASIER AND MORE **AFFORDABLE** THAN EVER BEFORE TO BUILD AND BRAND GREEN.



EDGE is an innovation of IFC, a member of the World Bank Group.



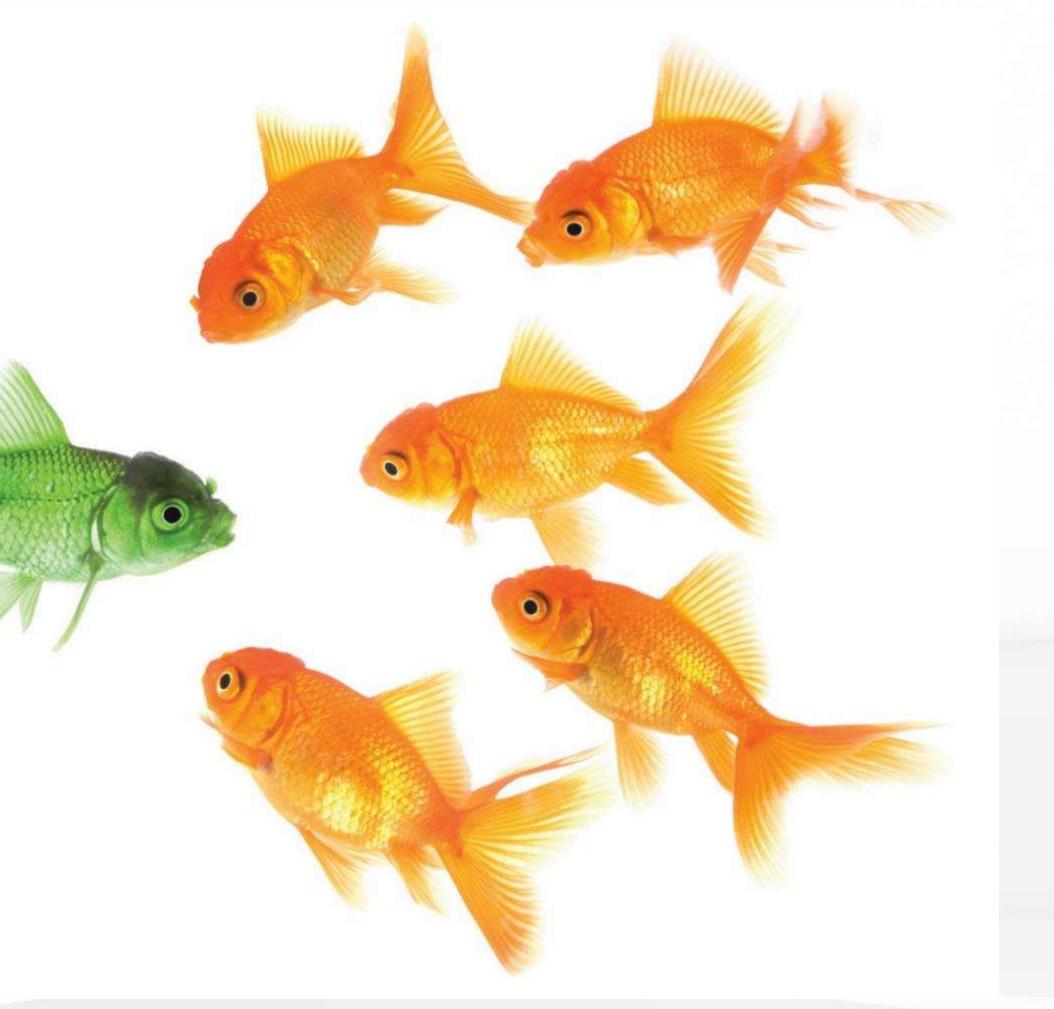
archetype WHAT GREEN IDEAS WILL WORK FOR MY PROJECT? AND HOW MUCH WILL THEY COST?





HOW CAN I INCREASE THE MARKETABILITY AND SUSTAINABILITY OF MY BUILDING BY **GOING GREEN?**







archetype THE SOLUTION IS EDGE: A SOFTWARE, A STANDARD, AND A GREEN BUILDING CERTIFICATION SYSTEM.



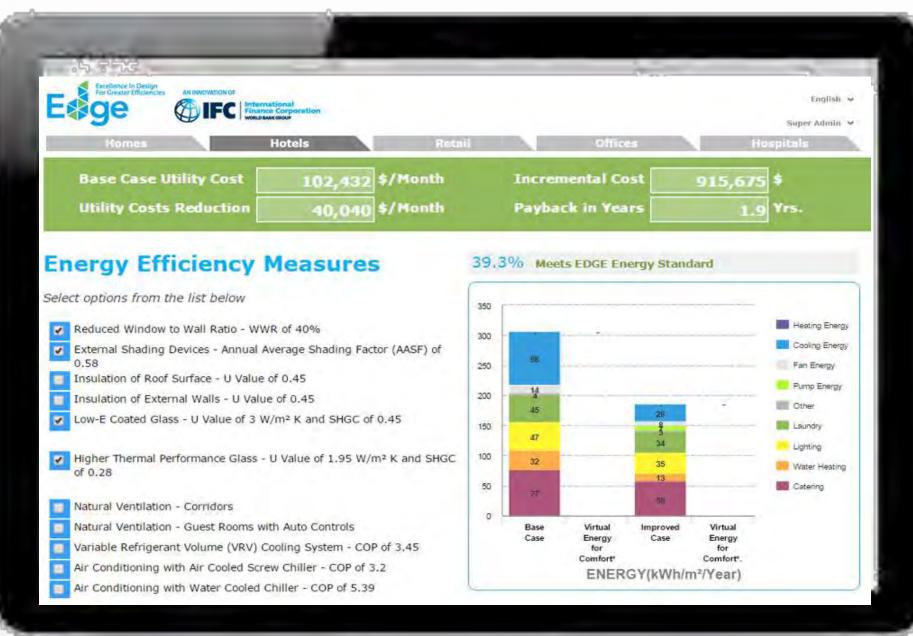


THE EDGE STANDARD FOCUSES ON **RESOURCE EFFICIENCY**, KEEPING CERTIFICATION ACHIEVABLE.

20%



THE FREE SOFTWARE SHOWS HOW YOU CAN CUT BACK ON THE RESOURCE INTENSITY OF YOUR BUILDING DESIGN.



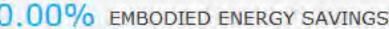


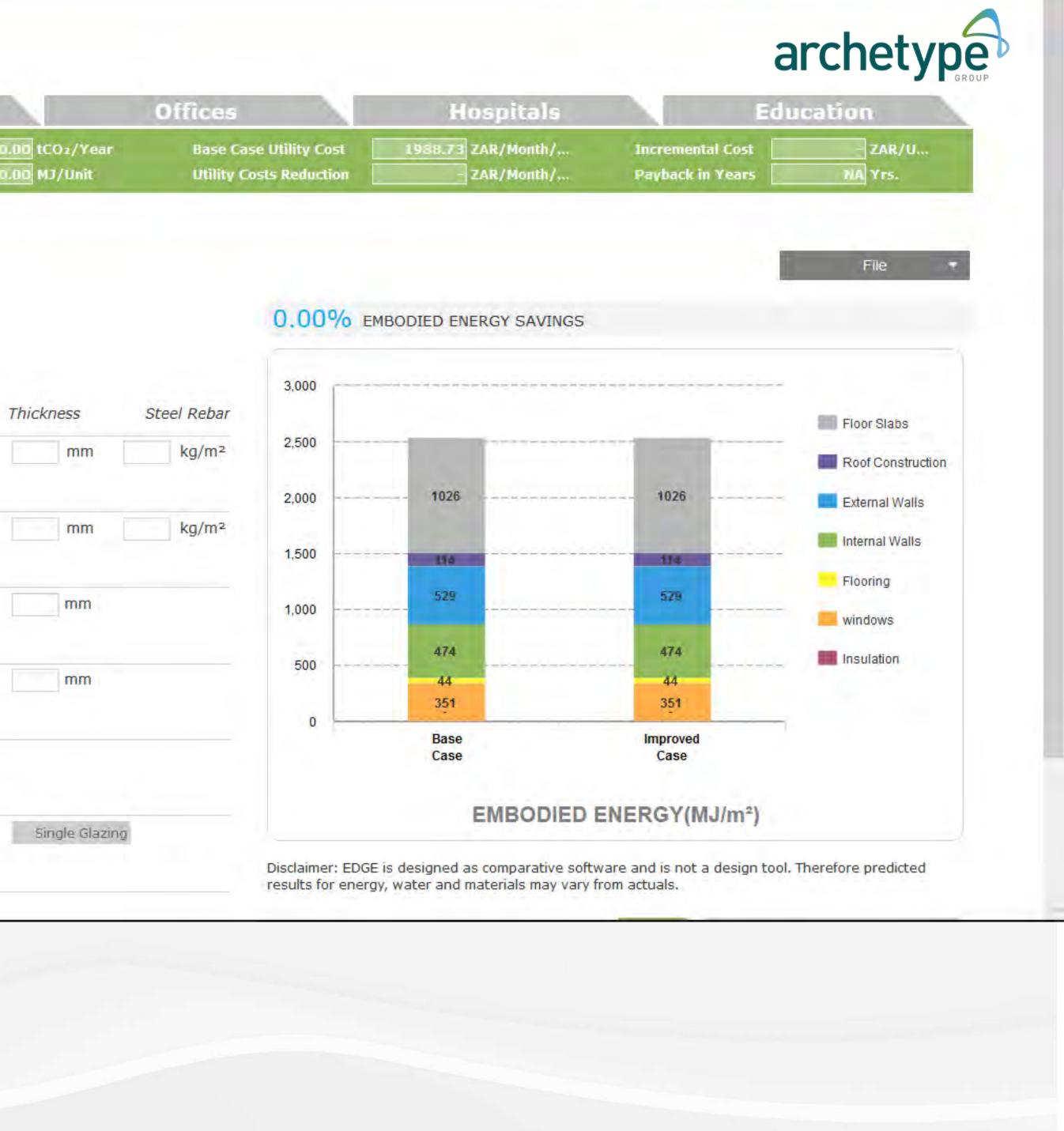
Hor	nes	Hotels	Retail	
RESULTS	Final Energy Use	932.19 kWh/Month/Unit 22.45 kL/Month/Unit	Operational CO2 Savings	

Choose building material options to achieve savings of at least 20%, indicating thickness.

Ref	Building material		Improved Case selection	Propo	ortion %
HMM01*	Floor Slabs Upload Document(s)		In-Situ Reinforced Concrete Slab v]	
HMM02*	Roof Construction	Type 1	In-Situ Reinforced Concrete Slab ~	100	%
НММ03*	External Walls	Type 1	Common Brick Wall with Internal & External Plast \sim	100	%
HMM04*	Internal Walls Upload Document(s)	Type 1	Common Brick Wall with Plaster on Both Sides $$	100	%
нммо5*	Flooring Upload Document(s)	Type 1	Ceramic Tile v	100	%
НММ06*	Window Frames	Type 1	Aluminium	100	%

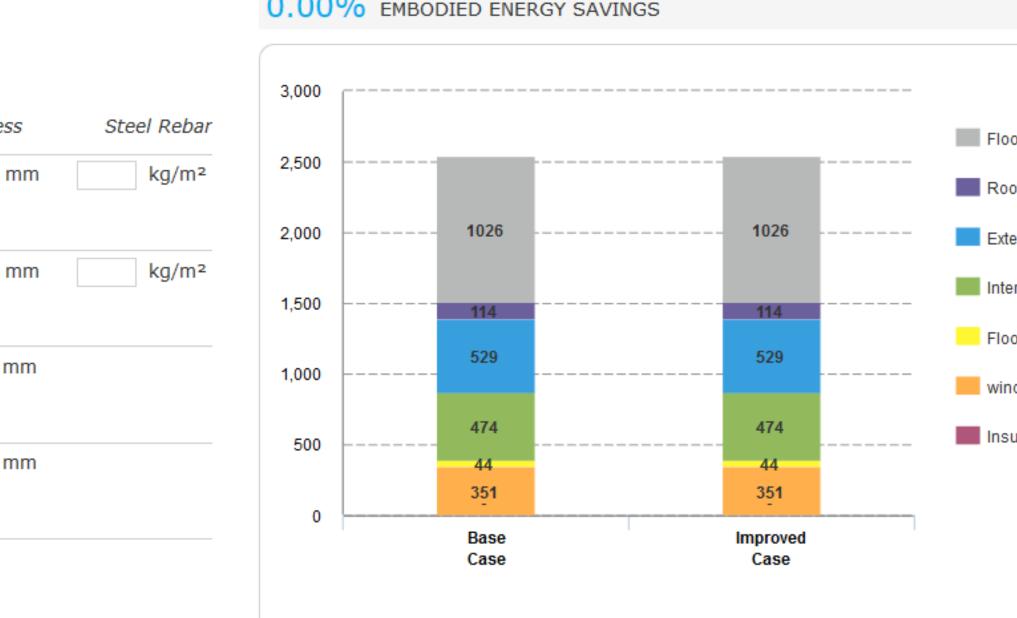






	E	Excelle For Gre	ater Efficiencies Finance Corporation 3-D Wire Panel with 'Shot-Crete' Both Sides	^						6	archetyp
		3	Aluminium Profile Cladding								
	Homes		Aluminum-Clad Sandwich Panel			Offices		Hospita	als	Edu	ucation
	Final Energy	Use	Autoclaved Aerated Concrete Blocks	0.00 t	CO2/Year	Base Cas	e Utility Cost	1988.73 ZAR/Mon	th/ Incrementa	l Cost	- ZAR/U
RESUL	LTS Final Water L		Brick Faced Precast Concrete Sandwich Panel		MJ/Unit		sts Reduction	- ZAR/Mon			NA Yrs.
			Cellular Light Weight Concrete Blocks								
Save	Version 2.1.4 V		Cement Fibre Boards on Metal Studs								
D	esian Enerav	/: 0.00%	Cement Fibre Boards on Timber Studs								File
	Design Energy	. 0.00%	Clay Tiles Cladding (or 'Terracotta Rainscreen Cladding') on Metal Studs								File
Materia	als Efficiency Meas	sures	Common Brick Wall with Internal & External Plaster Compressed Stabilized Earth Blocks				0.00%	EMBODIED ENERGY SA	VINGS		
Choose bui	ilding material options to acl	hieve savir	Cored (with Holes) Bricks with Internal & External Plaster								
			Curtain Walling (Opaque Element)				3,000				
Ref	Building material	1	Exposed Brick Wall with Internal Plaster	Thick	kness	Steel Rebar					Floor Slabs
HMM01*	Floor Slabs		Exposed Cored (with Holes) Bricks with Internal Plaster		mm	kg/m²	2,500				
1001	Upload Document(s)		Facing Brick and Hollow Concrete Blocks			Kg/III					Roof Construction
	<u>opioud Document(5)</u>		Facing Brick and Solid Concrete Blocks				2,000	1026	1026		External Walls
HMM02*	Roof Construction	Type 1	Facing Brick and Timber Stud		mm	kg/m²					_
	Upload Document(s)		FaLG Block				1,500	114	114		Internal Walls
			Ferrocement Wall Panel	v							Flooring
HMM03*	External Walls	Type 1	Common Brick Wall with Internal & External Plast V 100 %		mm		1,000	529	529		
	<u>Upload Document(s)</u>										windows
							500	474	474		Insulation
HMM04*	Internal Walls	Type 1	Common Brick Wall with Plaster on Both Sides \vee 100 %		mm			44	44		
	<u>Upload Document(s)</u>						0	351	351		
HMM05*	Flooring	Type 1	Ceramic Tile V 100 %					Base Case	Improved Case		
COMMIT	Upload Document(s)	Type 1						Cuse	Case		
	opioda Document(s)							ENDO		1/100 2)	
HMM06*	Window Frames	Type 1	Aluminium ~ 100 %	S	Single Glazing	J		EMBC	DIED ENERGY(M	,/m-)	
	<u>Upload Document(s)</u>					-	Disclaimor: ED	GE is designed as compar	ative software and is not a	design tool	Therefore predicted
								ergy, water and materials i		design cool.	merelore predicted

*A selection must be made for each measure with a thickness entered for floor, roof, and walls.

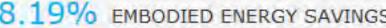


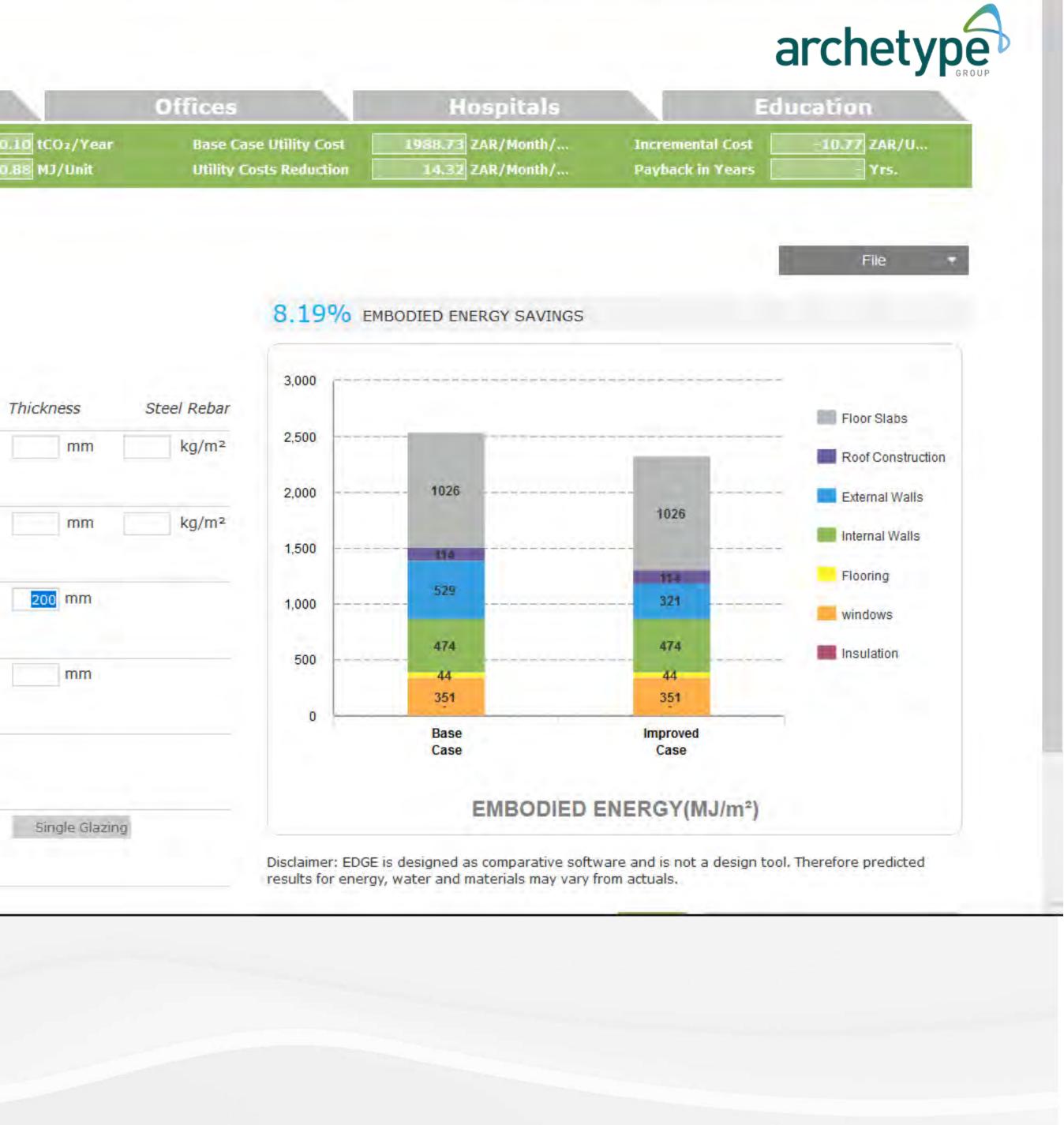


Hor	nes	Hotels	Retail		Offices	Hospitals	Ed	ucation
RESULTS	Final Energy Use	922.96 kWh/Month/Unit 22.45 kL/Month/Unit	Operational CO2 Savings Embodied Energy Savings	0.10 tCO2/Year 18710.88 MJ/Unit	Base Case Utility Cost Utility Costs Reduction	1988.73 ZAR/Month/ 14.32 ZAR/Month/	Incremental Cost Payback in Years	-10.77 ZAR/U Yrs.

Choose building material options to achieve savings of at least 20%, indicating thickness.

Ref	Building material		Improved Case selection	Prop	ortion %
HMM01*	Floor Slabs Upload Document(s)		In-Situ Reinforced Concrete Slab	~	
HMM02*	Roof Construction	Type 1	In-Situ Reinforced Concrete Slab	~ 100	%
НММ03*	External Walls	Type 1	Facing Brick and Hollow Concrete Blocks	√ 100	%
HMM04*	Internal Walls Upload Document(s)	Type 1	Common Brick Wall with Plaster on Both Sides	√ 100	%
HMM05*	Flooring Upload Document(s)	Type 1	Ceramic Tile	∨ 100	%
НММ06*	Window Frames	Type 1	Aluminium	× 100	%

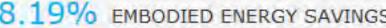


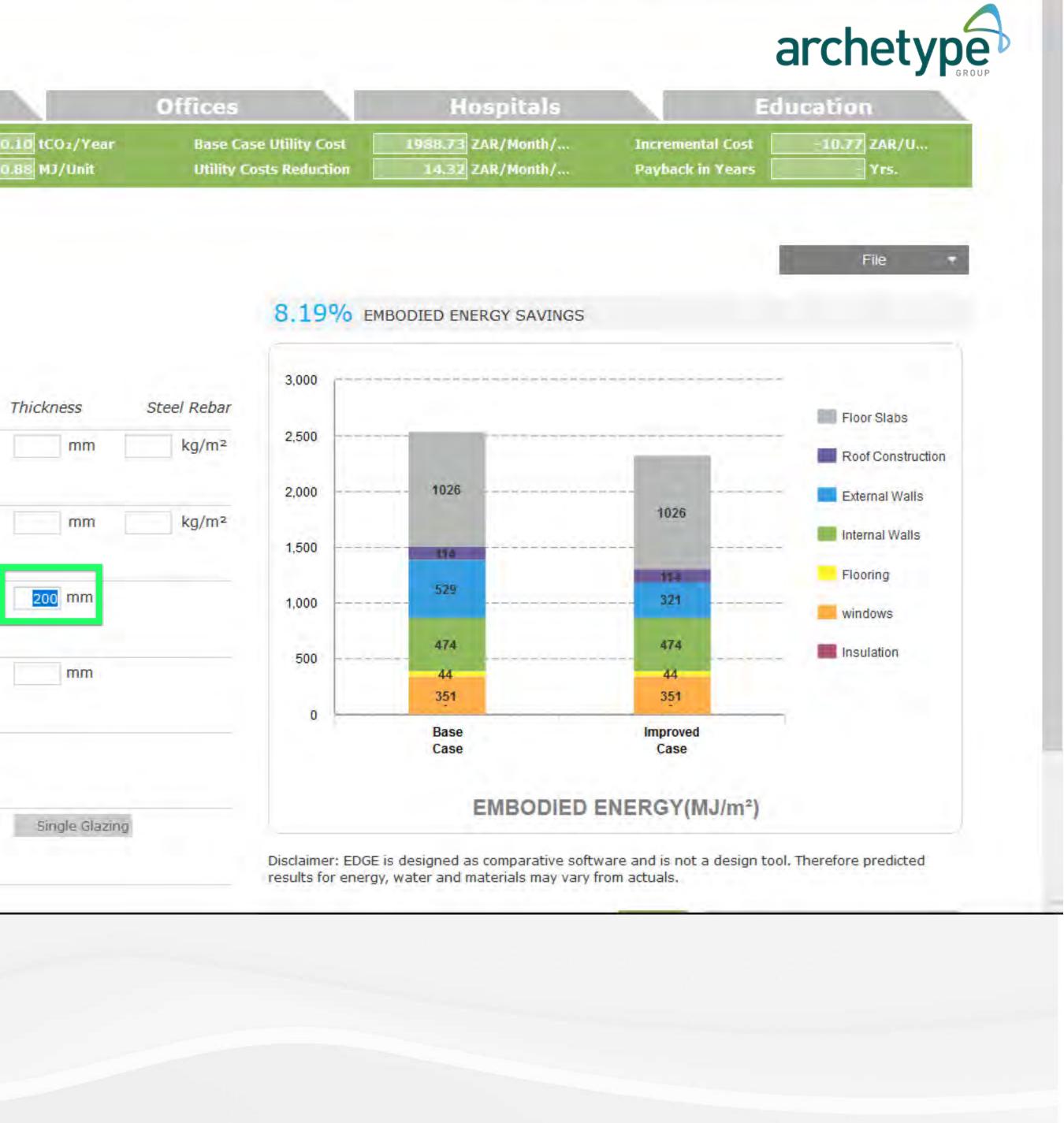


Hor	nes	Hotels	Retail		Offices	Hospitals	Ed	ucation
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HMM02*	Roof Construction	Type 1	In-Situ Reinforced Concrete Slab	~ 100	%
НММ03*	External Walls	Type 1	Facing Brick and Hollow Concrete Blocks	√ 100	%
HMM04*	Internal Walls Upload Document(s)	Type 1	Common Brick Wall with Plaster on Both Sides	√ 100	%
HMM05*	Flooring Upload Document(s)	Type 1	Ceramic Tile	∨ 100	%
НММ06*	Window Frames	Type 1	Aluminium	× 100	%



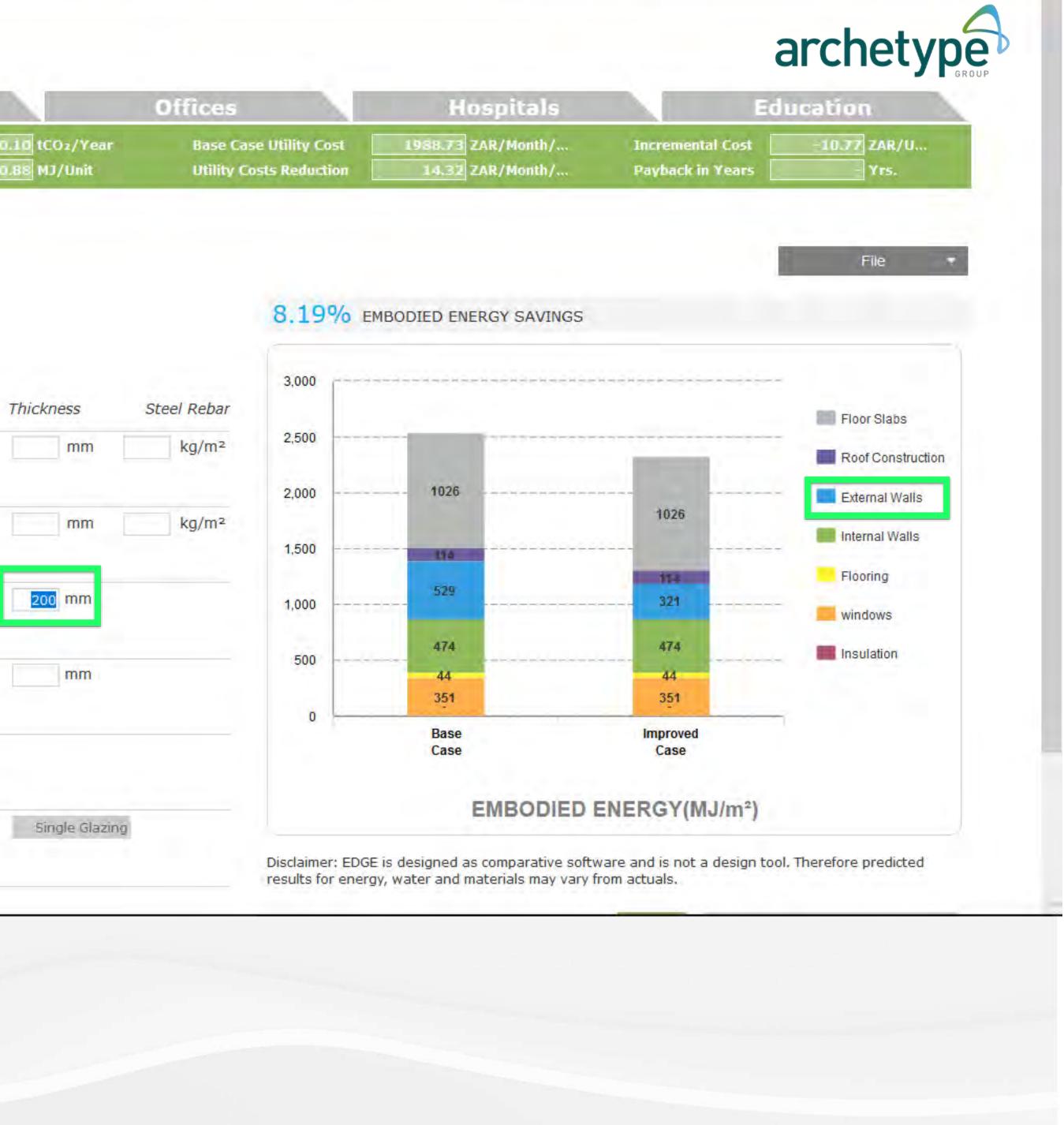


Hor	nes	Hotels	Creating Opportunities Retail		Offices	Hospitals		archetyp lucation
RESULTS	Final Energy Use	922.96 kWh/Month/Unit 22.45 kL/Month/Unit	Operational CO2 Savings Embodied Energy Savings	0.10 tCO2/Year 18710.88 MJ/Unit	Base Case Utility Cost Utility Costs Reduction	1988.73 ZAR/Month/ 14.32 ZAR/Month/	Incremental Cost Payback in Years	-10.77 ZAR/U - Yrs.

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HMM02*	Roof Construction	Type 1	In-Situ Reinforced Concrete Slab	~ 100	%
НММ03*	External Walls	Type 1	Facing Brick and Hollow Concrete Blocks	√ 100	%
HMM04*	Internal Walls Upload Document(s)	Type 1	Common Brick Wall with Plaster on Both Sides	√ 100	%
HMM05*	Flooring Upload Document(s)	Type 1	Ceramic Tile	∨ 100	%
НММ06*	Window Frames	Type 1	Aluminium	× 100	%

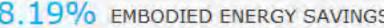


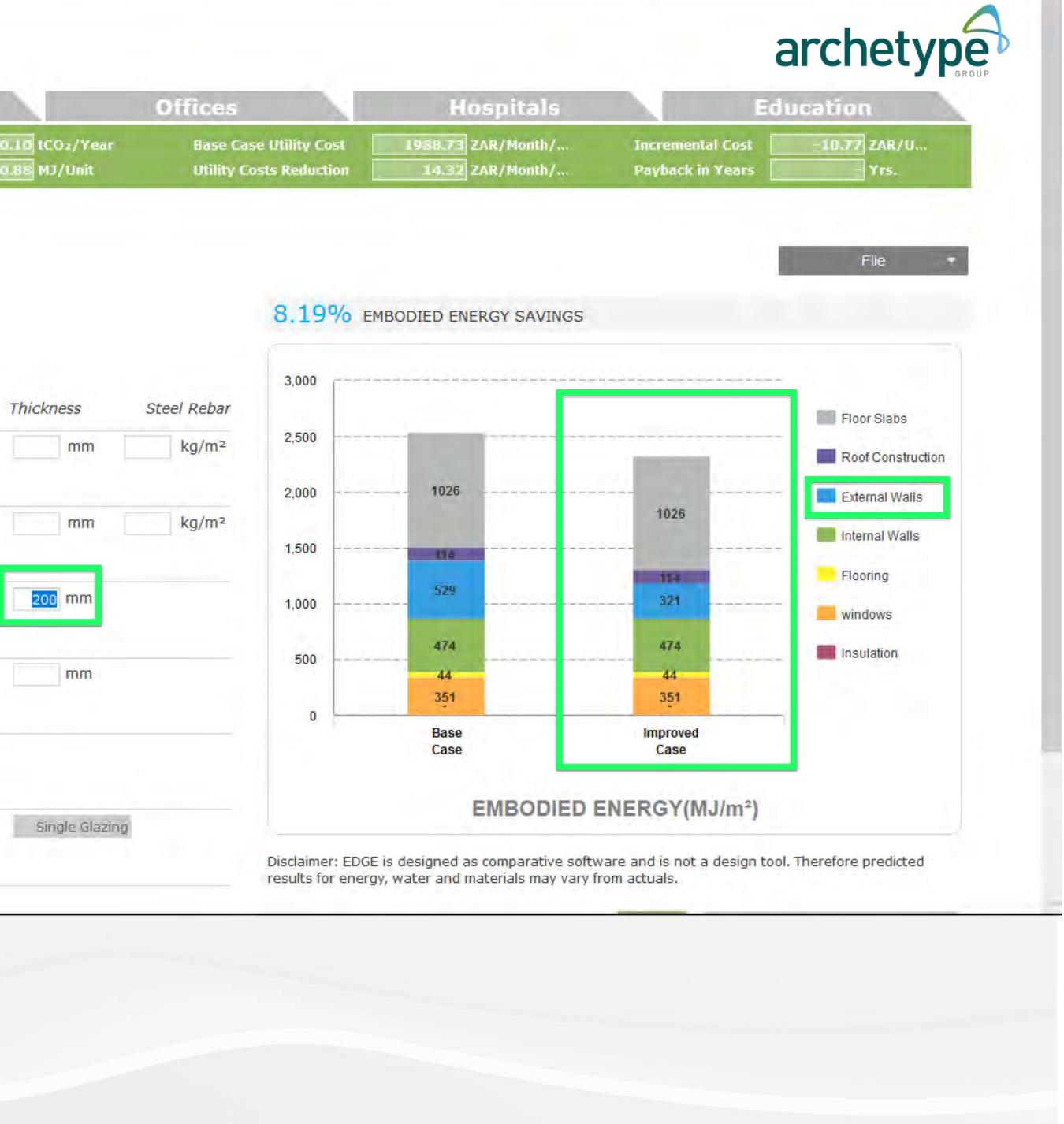


Hor	nes	Hotels	Retail		Offices	Hospitals	Ed	ucation
RESULTS	Final Energy Use	922.96 kWh/Month/Unit 22.45 kL/Month/Unit	Operational CO2 Savings Embodied Energy Savings	0.10 tCO2/Year 18710.88 MJ/Unit	Base Case Utility Cost Utility Costs Reduction	1988.73 ZAR/Month/ 14.32 ZAR/Month/	Incremental Cost Payback in Years	-10.77 ZAR/U Yrs.

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HMM05*	Flooring Upload Document(s)	Type 1	Ceramic Tile	∨ 100	%
НММ06*	Window Frames	Type 1	Aluminium	× 100	%

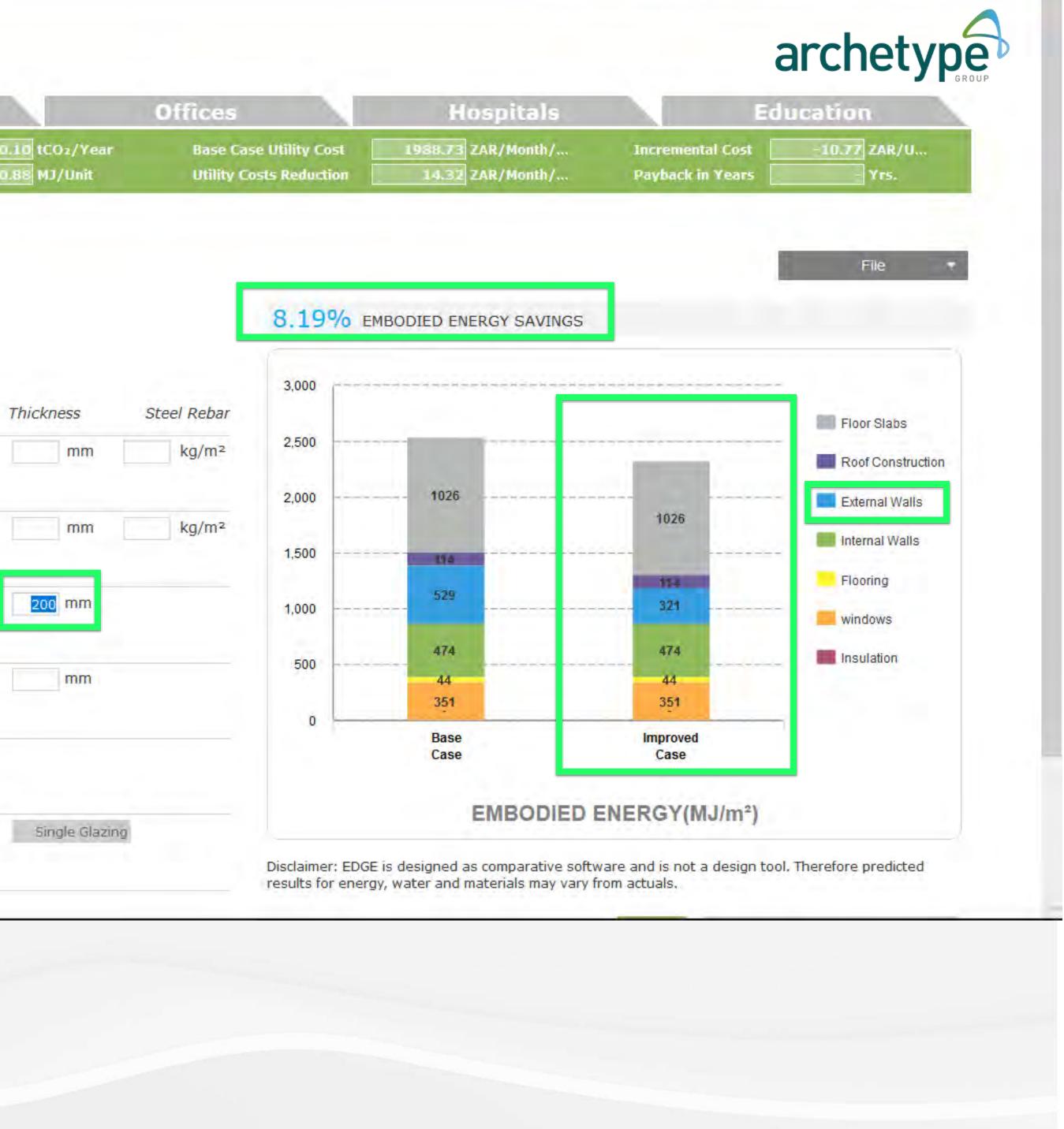




Hor	nes	Hotels	Retail	
RESULTS	Final Energy Use	922.96 kWh/Month/Unit 22.45 kL/Month/Unit	Operational CO2 Savings Embodied Energy Savings	187

Choose building material options to achieve savings of at least 20%, indicating thickness.

Ref	Building material		Improved Case selection		Proportion %	
HMM01*	Floor Slabs Upload Document(s)		In-Situ Reinforced Concrete Slab	~		
HMM02*	Roof Construction	Type 1	In-Situ Reinforced Concrete Slab	~ 100	%	
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HMM05*	Flooring Upload Document(s)	Type 1	Ceramic Tile	∨ 100	%	
НММ06*	Window Frames	Type 1	Aluminium	× 100	%	





Energy Efficiency Measures

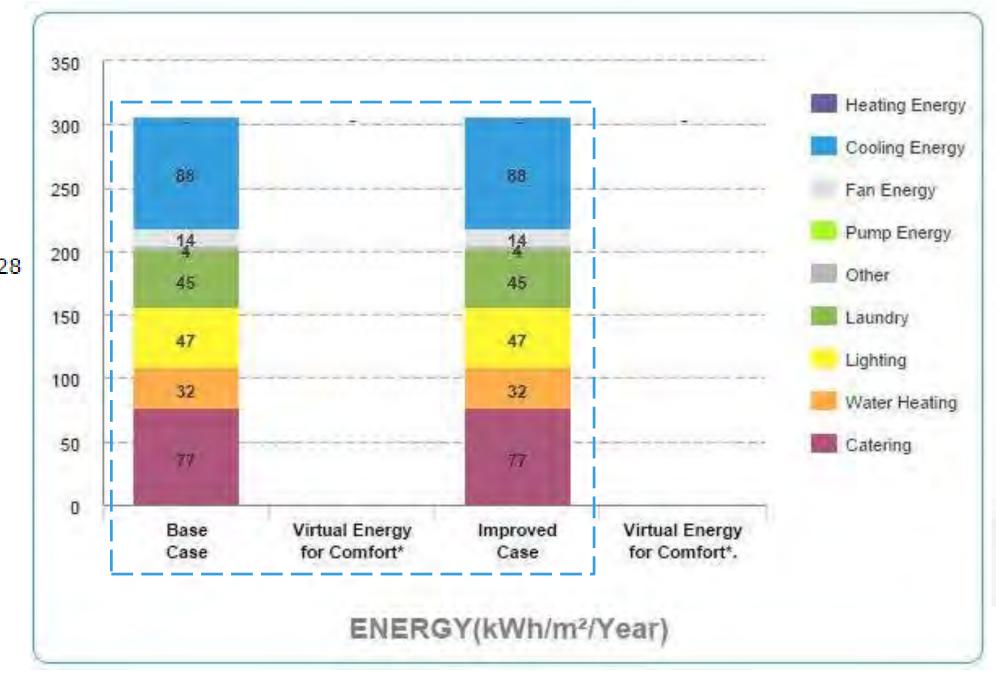
- Reduced Window to Wall Ratio WWR of 40%
- External Shading Devices Annual Average Shading Factor (AASF) of 0.58
- Insulation of Roof Surface U Value of 0.45
- Insulation of External Walls U Value of 0.45
- Low-E Coated Glass U Value of 3 W/m² K and SHGC of 0.45

Higher Thermal Performance Glass - U Value of 1.95 W/m² K and SHGC of 0.28

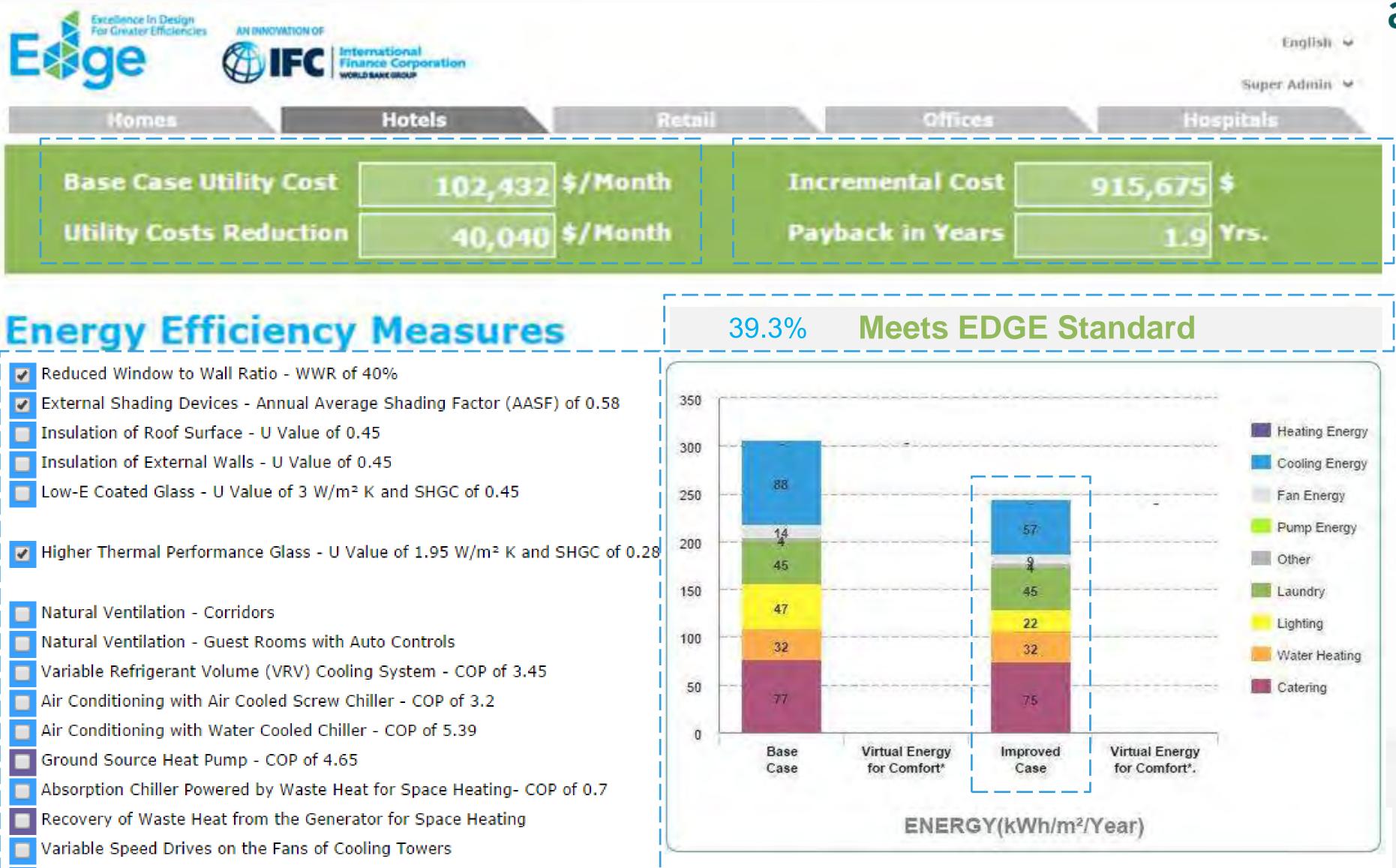
- Natural Ventilation Corridors
- Natural Ventilation Guest Rooms with Auto Controls
- Variable Refrigerant Volume (VRV) Cooling System COP of 3.45
- Air Conditioning with Air Cooled Screw Chiller COP of 3.2
- Air Conditioning with Water Cooled Chiller COP of 5.39
- Ground Source Heat Pump COP of 4.65
- Absorption Chiller Powered by Waste Heat for Space Heating- COP of 0.7
- Recovery of Waste Heat from the Generator for Space Heating
- Variable Speed Drives on the Fans of Cooling Towers
- Variable Speed Drives Pumps
- Sensible Heat Recovery from Exhaust Air Efficiency of 60%
- High Efficiency Condensing Boiler for Space Heating Efficiency of 90%
- High Efficiency Boiler for Water Heating Efficiency of 90%
- Variable Speed Hoods with Automated Fan Controls

archetype

0.00%







- Variable Speed Drives Pumps
- Sensible Heat Recovery from Exhaust Air Efficiency of 60%
- High Efficiency Condensing Boiler for Space Heating Efficiency of 90%
- High Efficiency Boiler for Water Heating Efficiency of 90%
- Variable Speed Hoods with Automated Fan Controls



FOR A SMALL INVESTMENT, ACHIEVE EDGE **CERTIFICATION AND INCREASE THE SUSTAINABILITY** AND MARKETABILITY OF YOUR BUILDING.





Archetype Myanmar Projects:



Archetype Myanmar Projects:......past



Archetype Myanmar Projects:......past



Sanctum Inle Resort



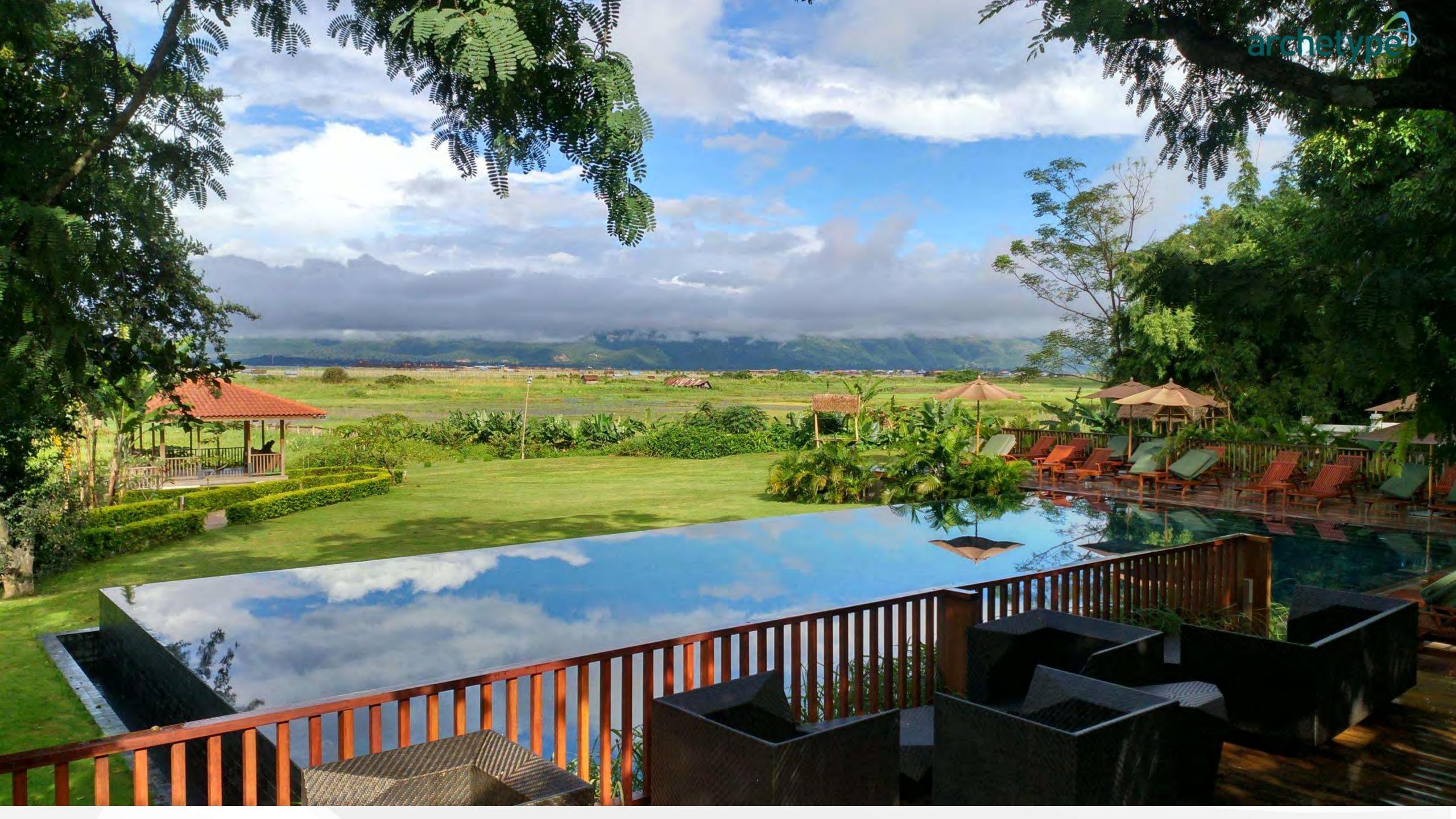


























to and

1





























Archetype Myanmar Projects:......past

Jotun Paint Factory





















































Archetype Myanmar Projects:



Archetype Myanmar Projects:.....present



Archetype Myanmar Projects:.....present

Excelsior Hotel

















Archetype Myanmar Projects



Archetype Myanmar Projects:.....present



Archetype Myanmar Projects:.....present

Narnattaw Condiminium





Archetype Myanmar Projects:.....present

Mandalay Yedagon Taung Master plan









5 Stars Hotel

International Hospital

Villas

REP. P.

Shop Houses

Low Rise Condos

International School

Shopping Mall

Water Park

and the second sec











Archetype Myanmar Projects:......present

Mandalay Yedagon Taung Master plan Showroom





























Archetype Myanmar Projects:......present

Mandalay Yedagon Taung Master plan **3 Stars Hotel**















Archetype Myanmar Projects:......present

Mandalay Yedagon Taung Master plan Shop Houses













Archetype Myanmar Projects



Archetype Myanmar Projects:......futur





Archetype Myanmar Projects:......futur

Mandalay Yedagon Taung Master planothers to come







YCDC - Yangon City Development Committee

HIC - High-rise Building Inspection Committee



CQHP - CQHPCommittee for Quality Control of High-Rise **Building Construction projects**



MFSD - Myanmar Fire Services Department



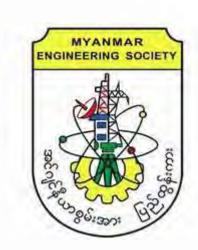
MIC - Myanmar Investment Commission



YHT – Yangon Heritage Trust







MES – Myanmar Engineer Society

မြန်မာနိုင်ငံအင်ဂျင်နီယာကောင်စီ



AMA – Association Myanmar Architects



Myanmar Engineering Council



AUTHORITIES SUBMISSION SUMMARY

CATEGORY OF BUILDING	AUTHORITY SUBMISSION	DC
3-1/2 STOREYD & BELOW(FOR PRIVATE RESIDENTIAL)	MIC*	AR
	YCDC(CONCEPT)	AR
	YCDC(FINAL)	AR
	YCDC(BCC)	LO
FROM 4 STOREYED TO 8-1/2 STOREYED	MIC*	AR
	YCDC(CONCEPT)	AR
	MFSD	AR
	YCDC(FINAL)	AR
	YCDC(BCC)	LO
ROM 9 STOREYED TO 12-1/2 STOREYED	MIC*	AR
	HIC(CONCEPTUAL)	AR
	MFSD	AR
	HIC(FINAL)	AR
	YCDC(CP APPROVAL)	HIC
	YCDC(BCC)	LO
13 STOREYED & ABOVE	MIC*	AR
	HIC(CONCEPTUAL)	AR
	MFSD	AR
	CQHP(FINAL)	AR
	YCDC(CP APPROVAL)	cq
	YCDC(BCC)	LO

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DCUMENT
CHI + BOO
СНІ
CHI + C&S
G BOOK
CHI + BOQ
СНІ
CHI+ MEP
CHI + MEP+ C&S
G BOOK + FIRE ARROVAL
CHI + BOQ
CHI+ MEP
CHI+ MEP
CHI+ MEP + C&S
C (FINAL)
G BOOK + FIRE ARROVAL
CHI + BOQ
CHI + MEP
CHI + MEP
CHI+ MEP+ C&S
HP (FINAL)
G BOOK + FIRE ARROVAL

MIC - MYANMAR INVESTMENT COMMISSION YCDC - YANGON CITY DEVELOPMENT COMMITTEE MFSD- MYANMAR FIRE SERVICES DEPARTMENT HIC - HIGH-RISE INSPECTION COMMITTEE COHP- COMMITTEE AND QUALITY CONTROL OF HIGH-RISE BUILDING CONSTRUCTION PROJECT **CP - CONSTRUCTION PERMIT** BCC - BUILDING COMPLETION CERTIFICATE



Yangon Excelsior Hotel

Conservation Management plan





Background

1.1 Introduction

1.2 Scope and Limitations

2 History

2.1 Historical Development

3 Description

3.1 Location and Surroundings

3.2 The Building

3.3 Physical Condition

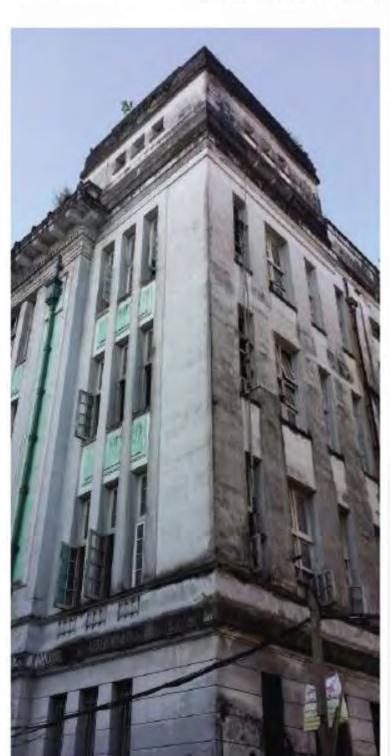
4 Significance

4.1 Statement of Significance

5 Adaptive Reuse Proposal

5.1 Conservation Objectives

- 5.2 The Yangon Excelsior Hotel
- 5.3 The Yangon Excelsion Hotel
- 5.4 Construction phase

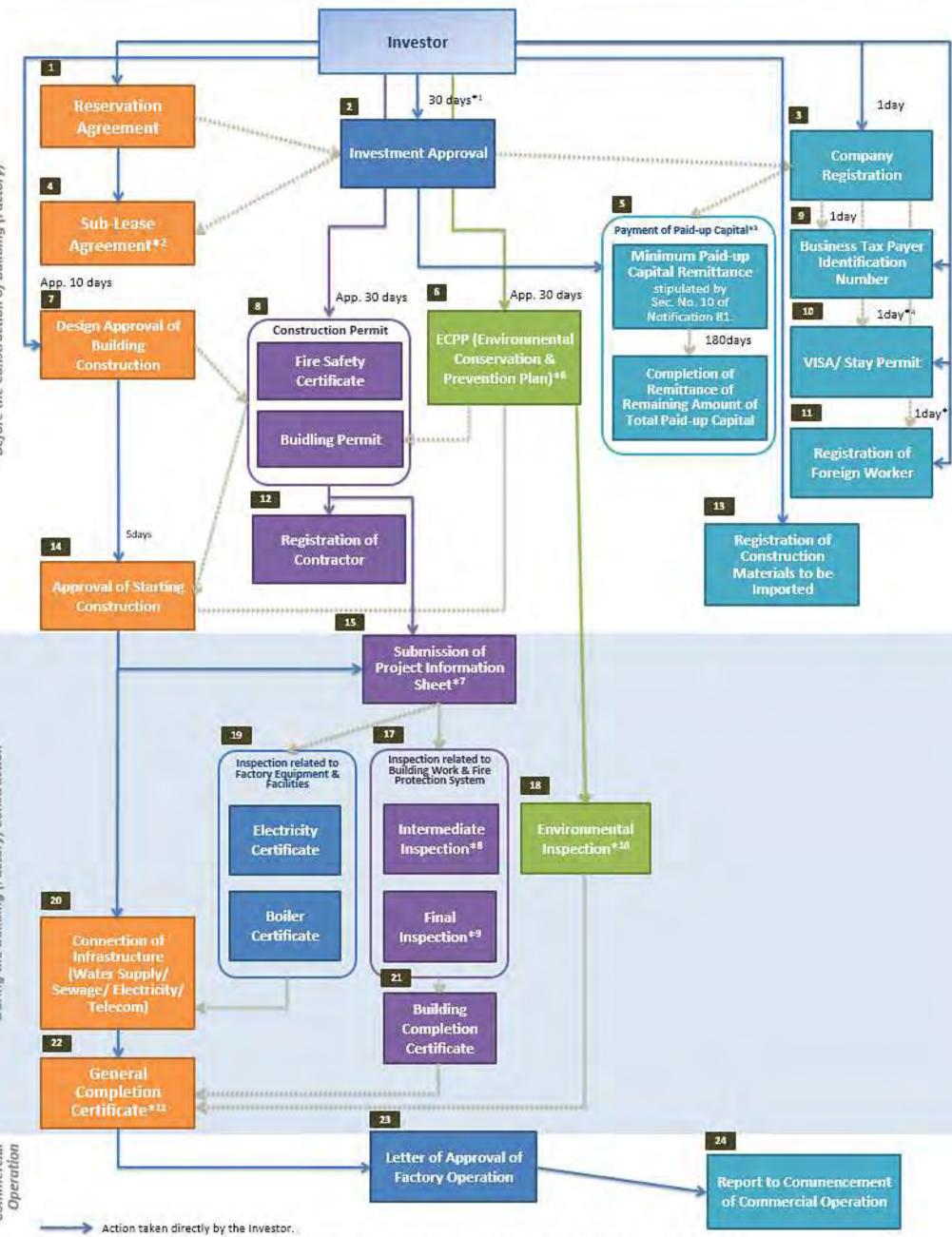


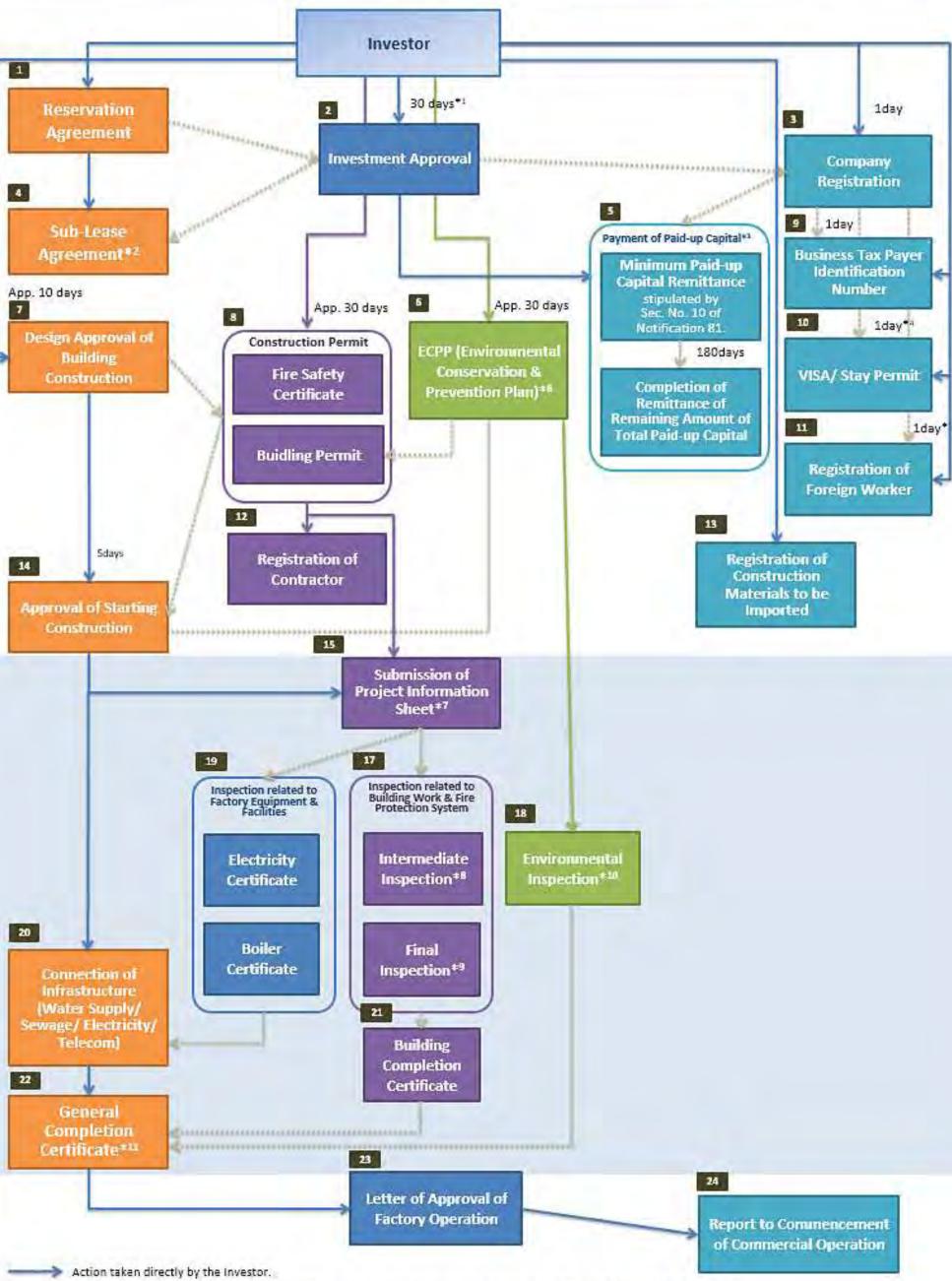


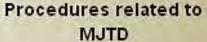




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Procedures related to Investment Approval and Building Construction Procedures related to Business Administration

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Relationship between each procedure.(Certificate or Approval is required to take next item directed by the dotted allow.)



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