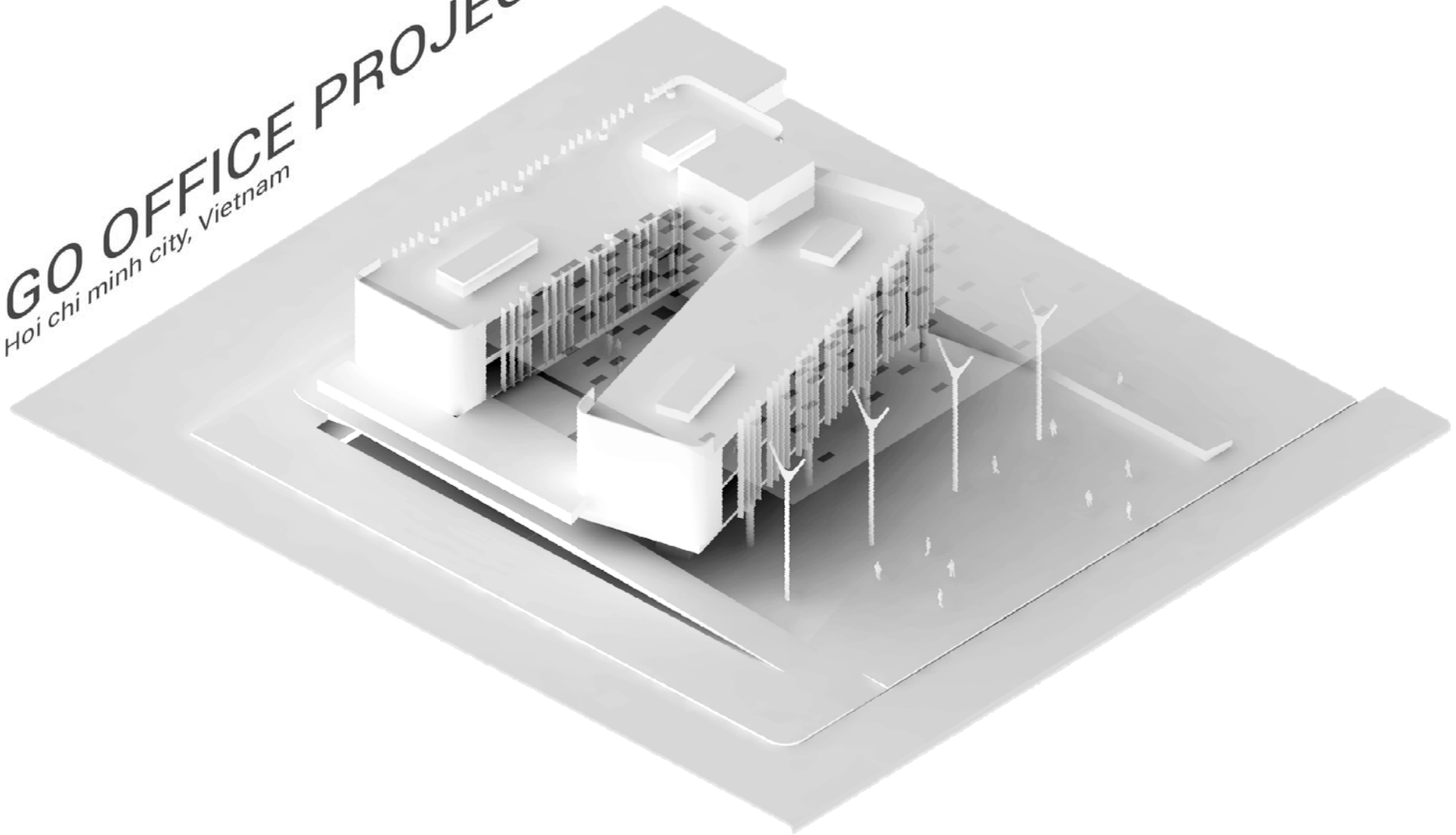
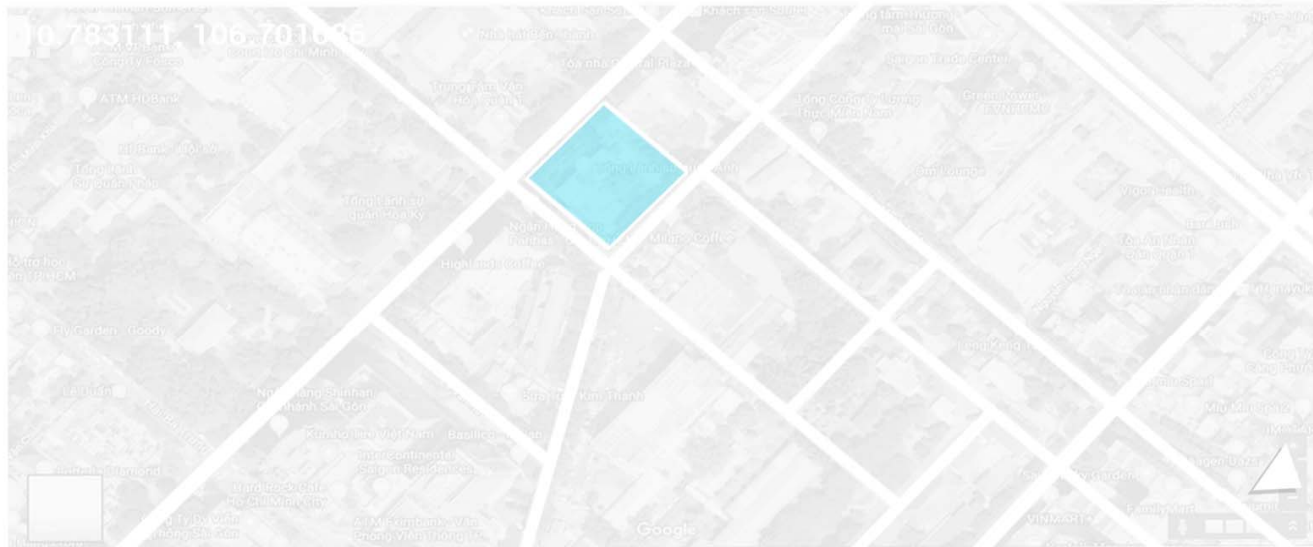


# GO OFFICE PROJECT

Hoi chi minh city, Vietnam





site ex. The British Consulate General  
25 Lê Duẩn, Bến Nghé, District 1, Hồ Chí Minh, Vietnam

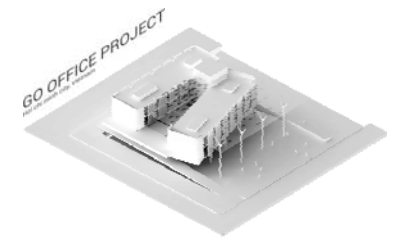
### SPACE REQUIREMENT

plot size  
3600 60mx60m

internal floor area  
4500sqm

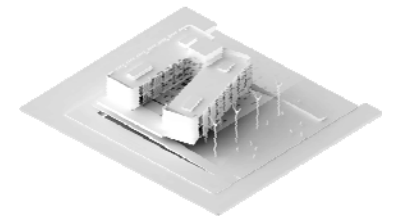
open plan office  
x meeting rooms  
250emp = 1000sqm

100 bike parking  
100 car parking



## Project Details

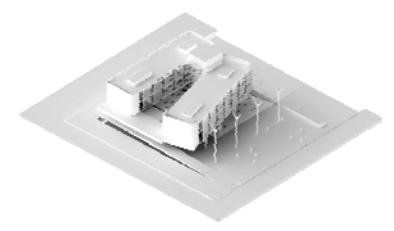
Project Name*	Hoi ci minh project	X
Number of Distinct Buildings*	1	
Number of EDGE Subproject(s) associated	1	
Total Project Floor Area	4,500	m <sup>2</sup>
Project Owner Name*	Mr. Bambang	
Project Owner Email*	gilangdwialridho@gmail.com	
Project Owner Phone*	Office ▼ 0271 888881	
	<a href="#">Upload</a> project-level documents.	
	<a href="#">Download</a> project audit documents.	
	<a href="#">Register Project</a>	
Address Line1		
Address Line2		
City		
State/ Province		
Postal Code		
Country		
Project Number	1000509012	
Do you intend to certify?*	Not Sure ▼	
Share with investor(s) or bank(s)?*	Yes ▼	



## Location Data

Enter Context Data

Country	<input type="text" value="Vietnam"/>	▼
City	<input type="text" value="Ho Chi Minh"/>	▼





## Building Data

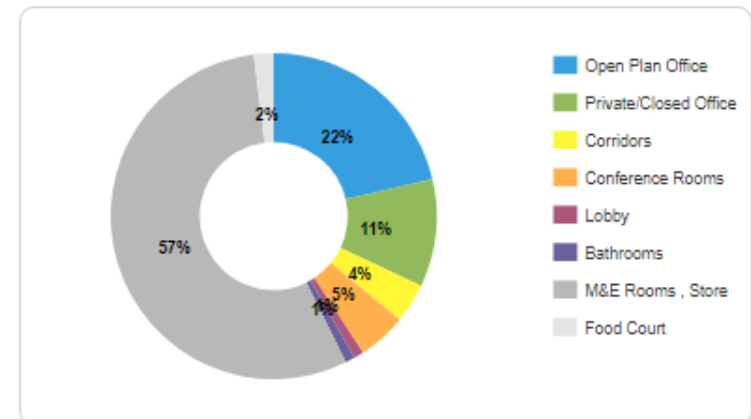
Gross Internal Area Excluding Car Parking	<input type="text" value="4,500"/>	m <sup>2</sup>
Floors Above Grade	<input type="text" value="3"/>	no.
Floors Below Grade	<input type="text" value="1"/>	no.
Floor-to-Floor Height	<input type="text" value="3.5"/>	m

- Food Court
- Cellular Office

	Default	User Entry	
Open Plan Office	<input type="text" value="2,745"/>	<input type="text" value="1,000"/>	m <sup>2</sup>
Private/Closed Office	<input type="text" value="495"/>	<input type="text" value="500"/>	m <sup>2</sup>
Corridors	<input type="text" value="270"/>	<input type="text" value="200"/>	m <sup>2</sup>
Conference Rooms	<input type="text" value="225"/>	<input type="text" value="0"/>	m <sup>2</sup>
Lobby	<input type="text" value="135"/>	<input type="text" value="65"/>	m <sup>2</sup>
Bathrooms	<input type="text" value="225"/>	<input type="text" value="50"/>	m <sup>2</sup>
M&E Rooms, Store **		<input type="text" value="2,581"/>	m <sup>2</sup>
Food Court	<input type="text" value="180"/>	<input type="text" value="104"/>	m <sup>2</sup>
<b>Gross Internal Area</b>		<b><input type="text" value="4,500"/></b>	<b>m<sup>2</sup></b>

\*\*The M&E Rooms, Store field is equal to the remaining space required to total the gross internal area excluding car parking.

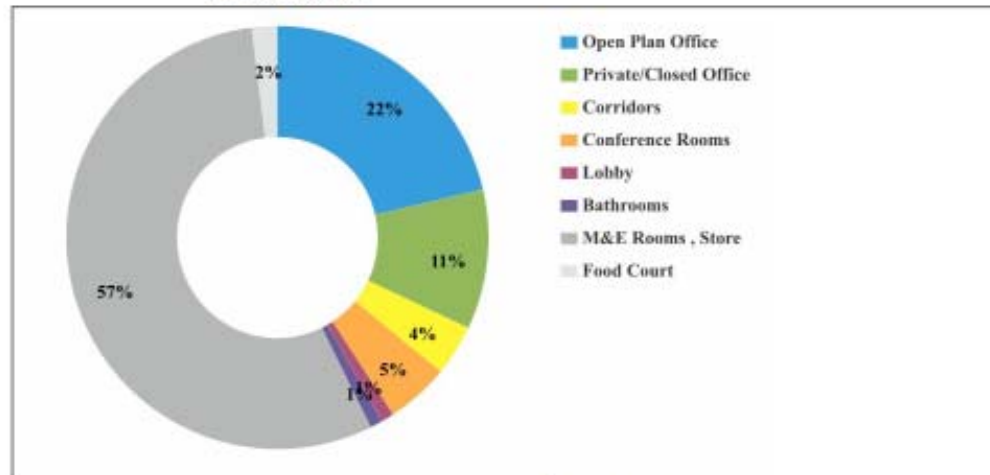
	Default	User Entry	
Occupancy Density	<input type="text" value="9"/>	<input type="text" value="18"/>	m <sup>2</sup> /Person
Operational Hours	<input type="text" value="10"/>	<input type="text" value="10"/>	Hours/Day
Working Days	<input type="text" value="6"/>	<input type="text" value="5"/>	Days/Week
Holidays	<input type="text" value="10"/>	<input type="text" value="12"/>	Days/Year



## Building Data

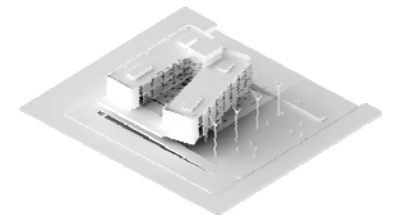
Gross Internal Area Excluding Car Parking : 4,500 m<sup>2</sup>  
 Floors Above Grade : 3 no.  
 Floors Below Grade : 1 no.  
 Floor-to-Floor Height : 3.5 m  
 Food Court : Yes  
 Cellular Office : No

	Default	User Entry
Occupancy Density :	9	18 m <sup>2</sup> /Person
Operational Hours :	10	10 Hours/Day
Working Days :	6	5 Days/Week
Holidays :	12	12 Days/Year



	Default	User Entry
Open Plan Office :	2,745	1,000 m <sup>2</sup>
Private/Closed Office :	495	500 m <sup>2</sup>
Corridors :	270	200 m <sup>2</sup>
Conference Rooms :	225	0 m <sup>2</sup>
Lobby :	135	65 m <sup>2</sup>
Bathrooms :	225	50 m <sup>2</sup>
M&E Rooms, Store ** :		2,581 m <sup>2</sup>
Food Court :	180	104 m <sup>2</sup>
<b>Gross Internal Area :</b>		<b>4,500 m<sup>2</sup></b>

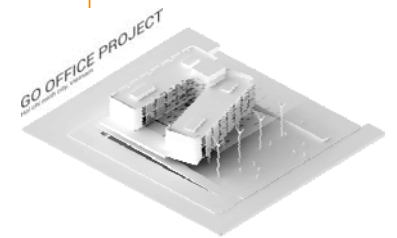
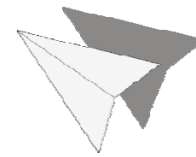
\*\*The M&E Rooms, Store field is equal to the remaining space required to total the gross internal area excluding car parking.



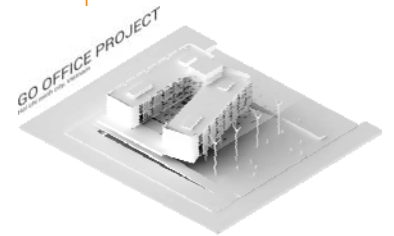
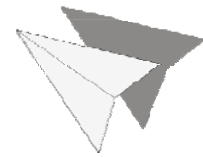
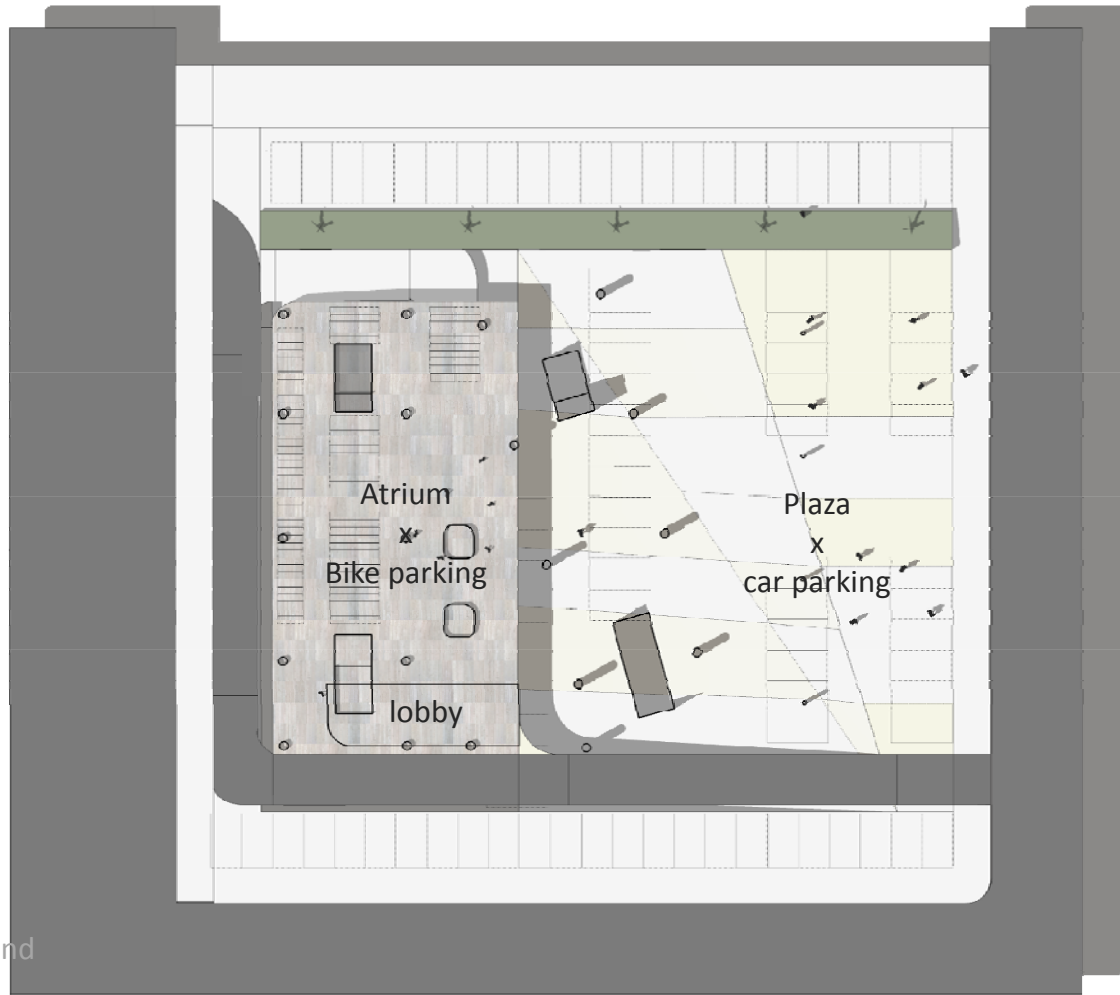




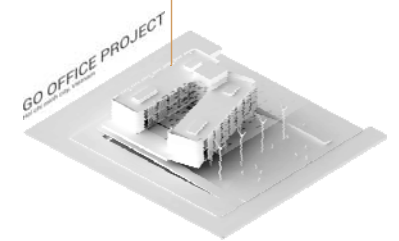
Plan.  
Upper Ground



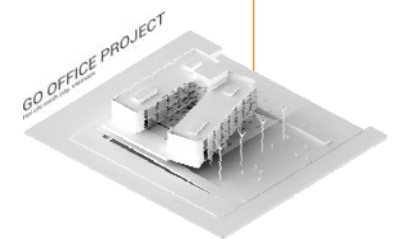
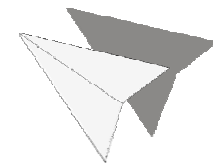
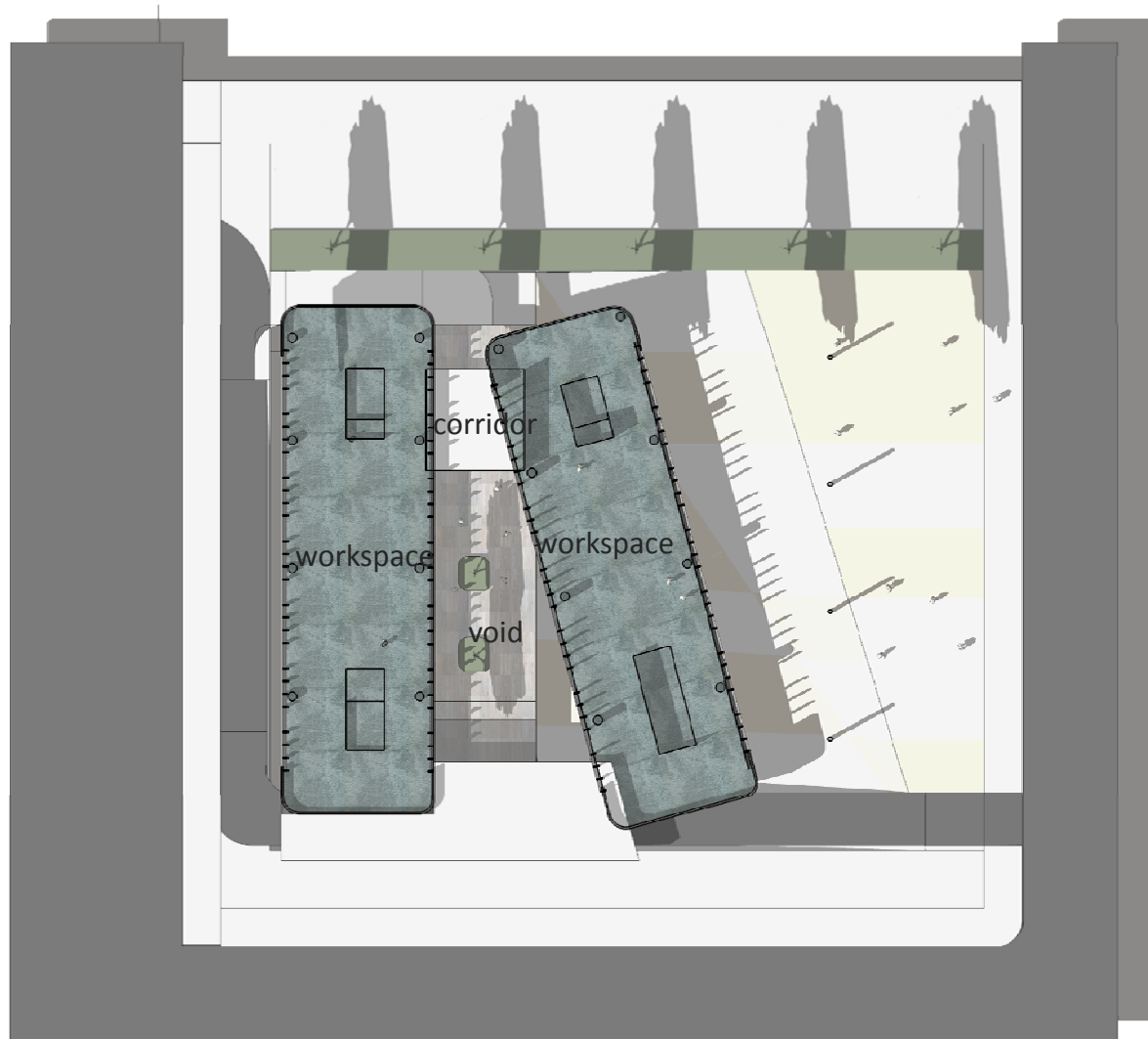
Plan.  
Upper Ground



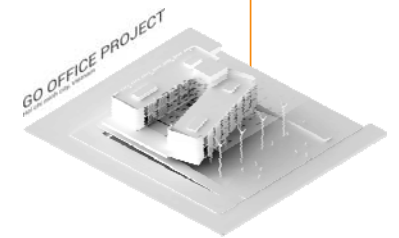
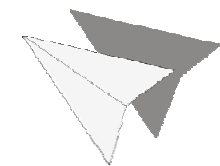
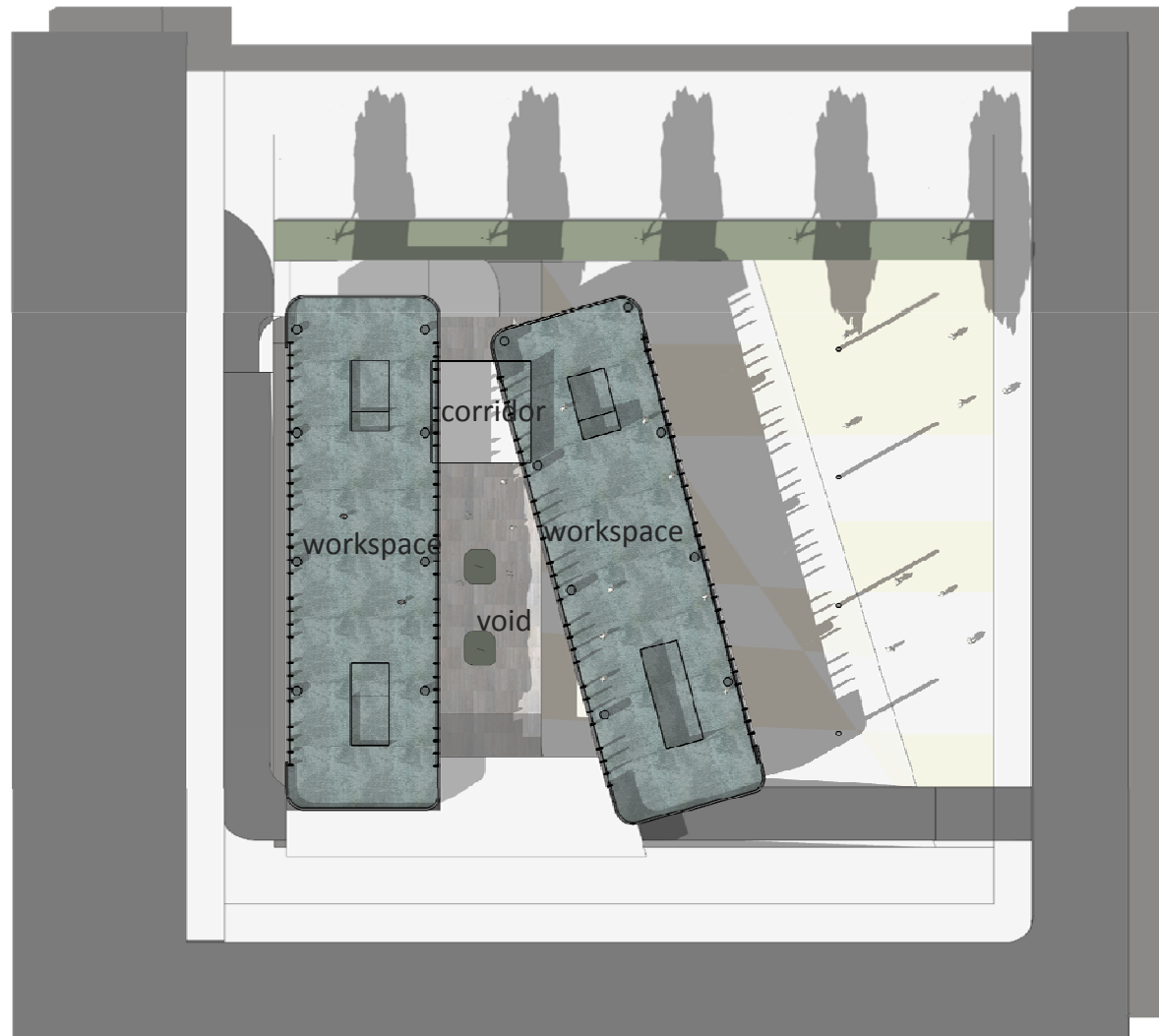
Plan.  
Lower Ground



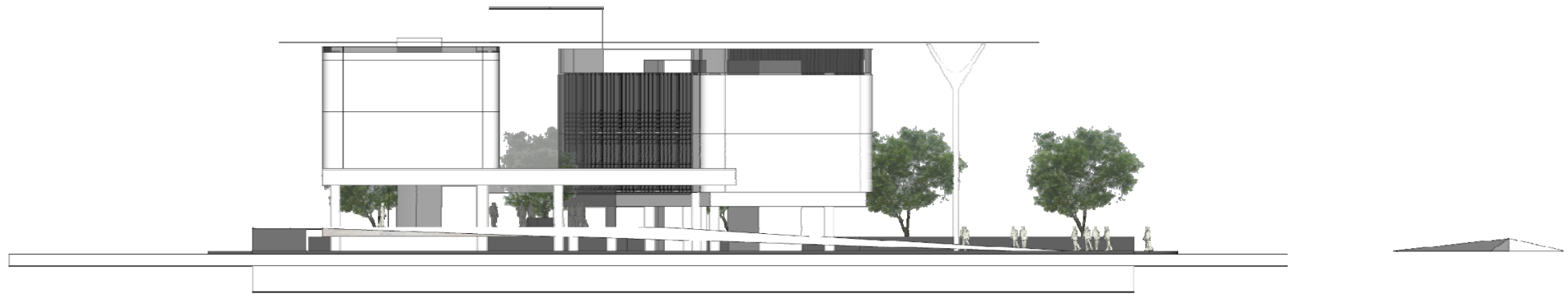
Plan.  
2nd Floor



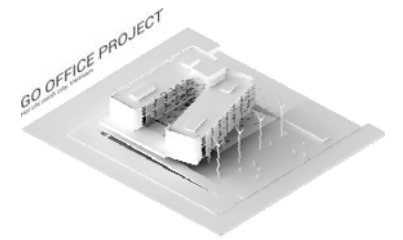
Plan.  
3<sup>rd</sup> Floor

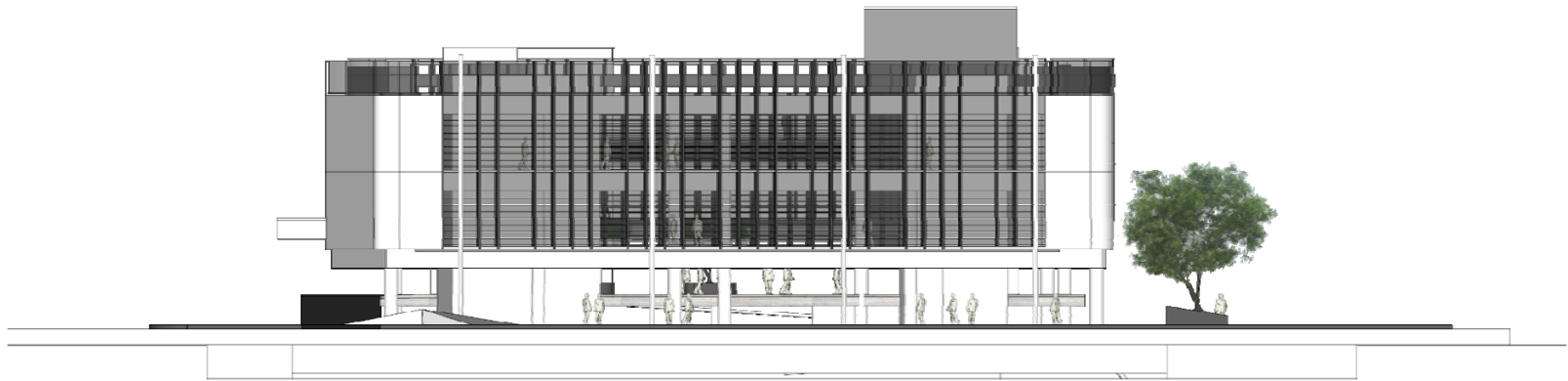




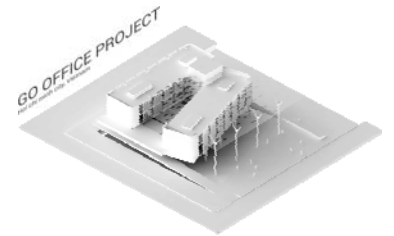


Elevation.  
South west



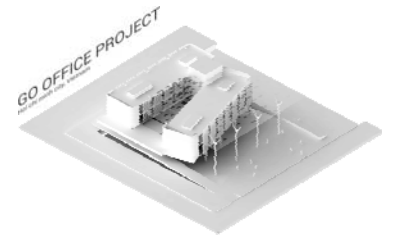


Elevation.  
South east



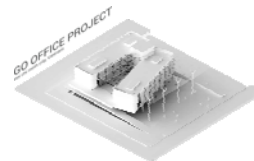
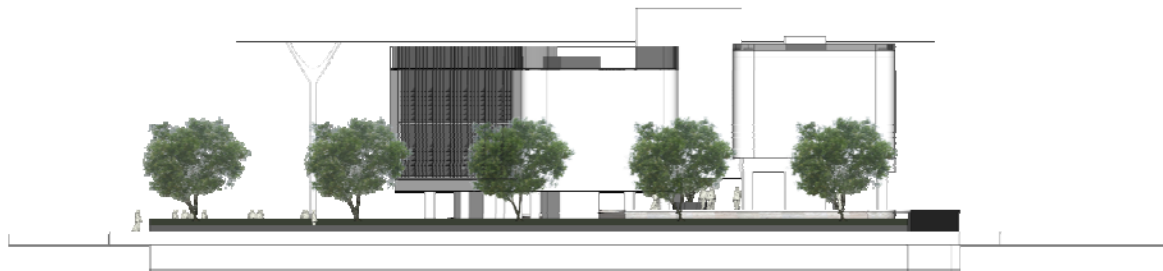


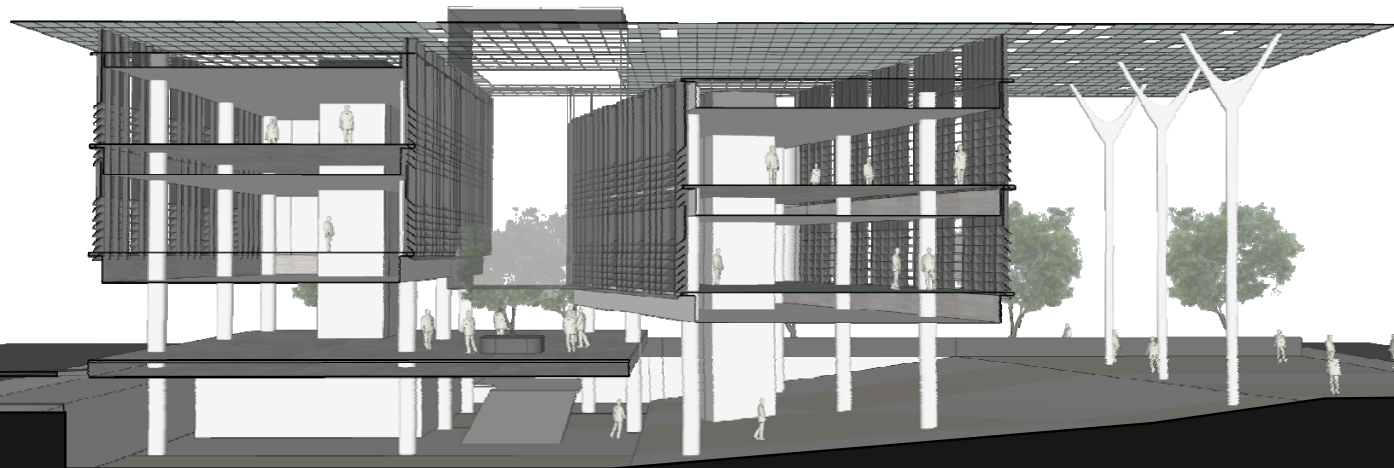
Elevation.  
North east



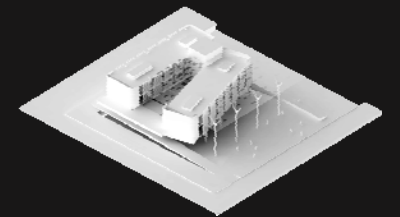


Elevation.  
North west





Elevation.  
North west



## Building Orientation

Floor Plan Depth\*\*\*  m

Main Orientation\*\*\*

\*\*\* These parameters will be used to estimate building dimensions. If the exact details of the dimensions and orientation are available, then complete the User Entry fields in the Building Lengths section. The orientation of the building will have a direct effect on energy consumption.

### Building Lengths

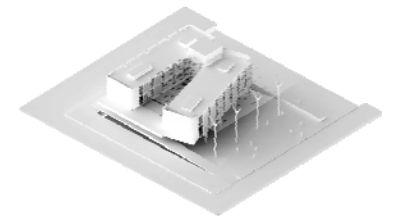
	Default	User Entry	
North	17.1	<input type="text"/>	m
South	17.1	<input type="text"/>	m
East	17.1	<input type="text"/>	m
West	17.1	<input type="text"/>	m
Northeast	17.1	<input type="text" value="28"/>	m
Northwest	17.1	<input type="text" value="40"/>	m
Southeast	17.1	<input type="text" value="40"/>	m
Southwest	17.1	<input type="text" value="36"/>	m

## Building Systems

### Enter Building Systems

Does the building design include an AC sys...

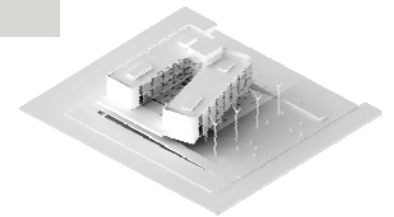
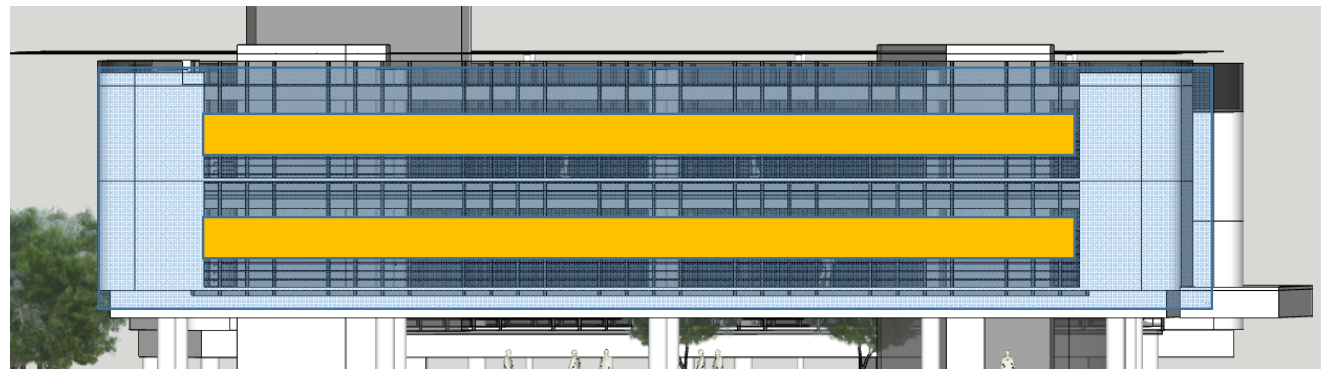
Does the building design include a space h...



OFE01\*  Reduced Window to Wall Ratio - WWR of 20.97%

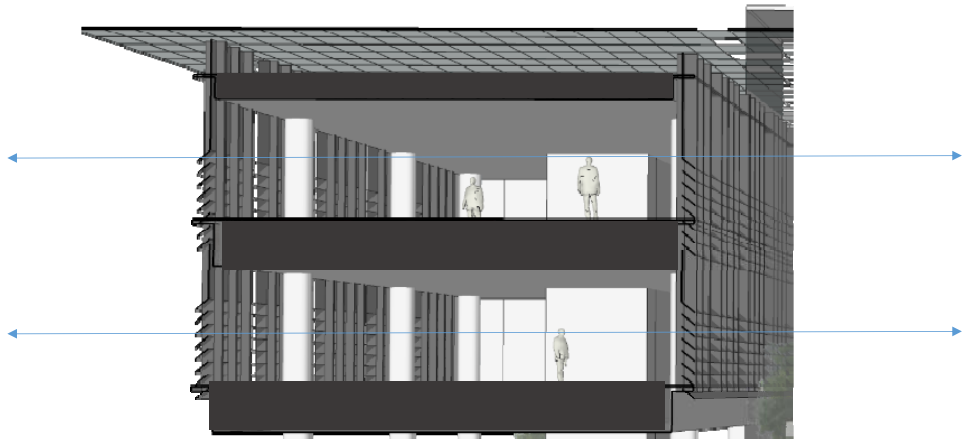
North	<input type="text"/>	%	South	<input type="text"/>	%
East	<input type="text"/>	%	West	<input type="text"/>	%
Northeast	<input type="text" value="0"/>	%	Northwest	<input type="text" value="30"/>	%
Southeast	<input type="text" value="30"/>	%	Southwest	<input type="text" value="0"/>	%

(2x30)2 = 120  
8.5x40 = 340



$(2 \times 30)^2 = 120$   
 $40 \times 12 = 480$

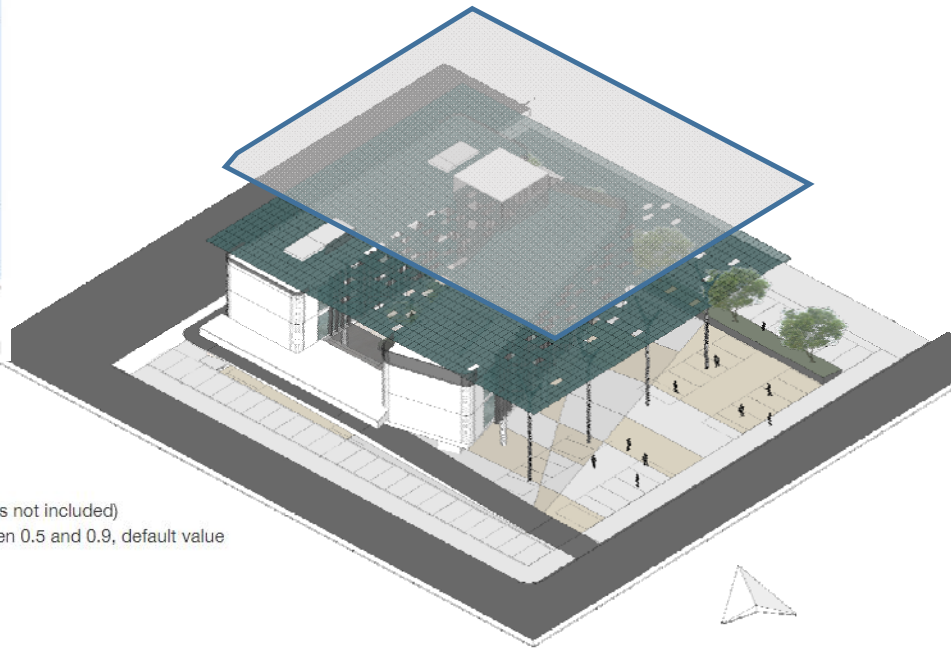
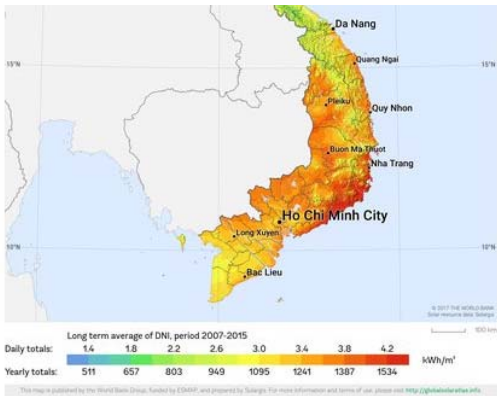
OFE09 - Natural Ventilation



Room Depth to Ceiling Height Ratio (D:H)								Minimum Area of Opening				
Space Type	Space/Room Name	Opening Type	Room Depth (m) E.g. 5	Ceiling Height (m) E.g. 5	Maximum D:H Allowed	D:H of Space	Within Maximum D:H Limits?	Room Area (m <sup>2</sup> ) E.g. 30	Opening Area (m <sup>2</sup> ) E.g. 5	Minimum Required Opening Area (m <sup>2</sup> )	Meets the Minimum Area Requirements?	Action
Corridors		Cross-ventilated	12.00	3.00	5.00	4.00	Yes	480.00	120.00	10%	48.00	Yes







$$E = A * r * H * PR$$

**E** = Energy (kWh)

**A** = Total solar panel Area (m2)

**r** = solar panel yield or efficiency(%)

**H** = Annual average solar radiation on tilted panels (shadings not included)

**PR** = Performance ratio, coefficient for losses (range between 0.5 and 0.9, default value = 0.75)

$200 * 0.18 * 1250 * 0.75 = 33.75 \text{ kWh} = 28\% \text{ annual use}$

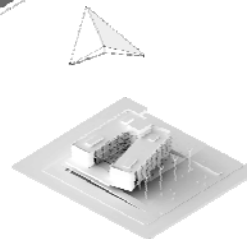
$200 * 10 = 20 \text{ kWp} = 18\% \text{ annual use}$

OFE30  Solar Photovoltaics - 18% of Total Energy Demand

% of Annual Electricity Use

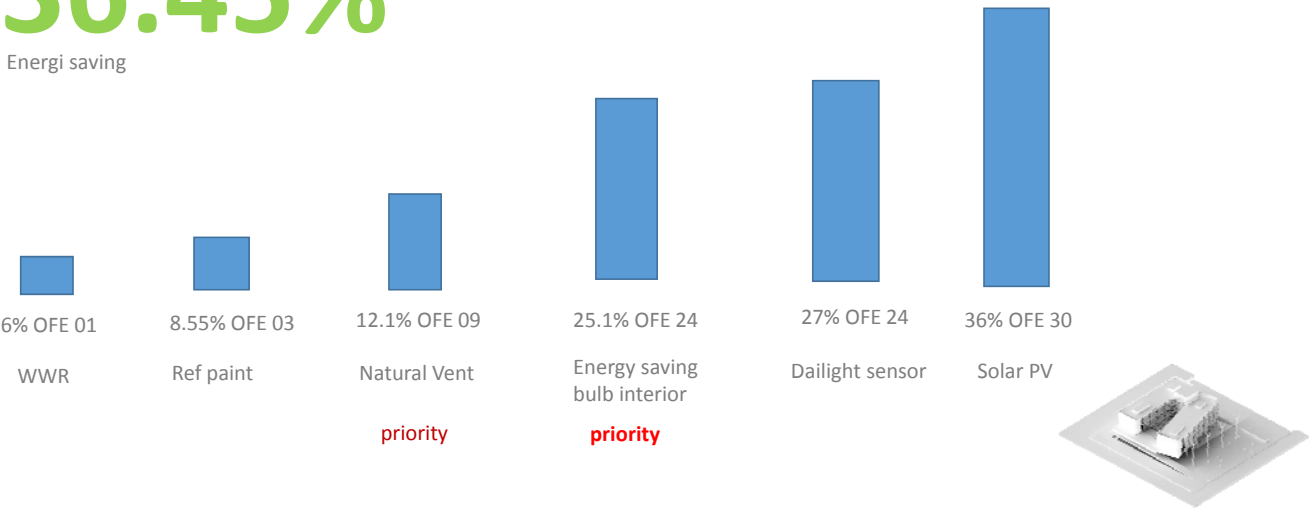
[Upload Document\(s\)](#)

20.3 Capacity (kWp)



# 36.45%

Energy saving



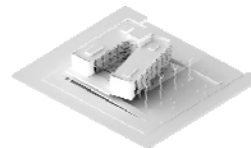
**RESULTS**

Final Energy Use 9,367.76 kWh/Month  
Final Water Use 755.84 m<sup>3</sup>/Month

1/3

decrease  
**Operational cost**

Incremental Cost 23,741.59 mVND  
Payback in Years 9.34 Yrs.

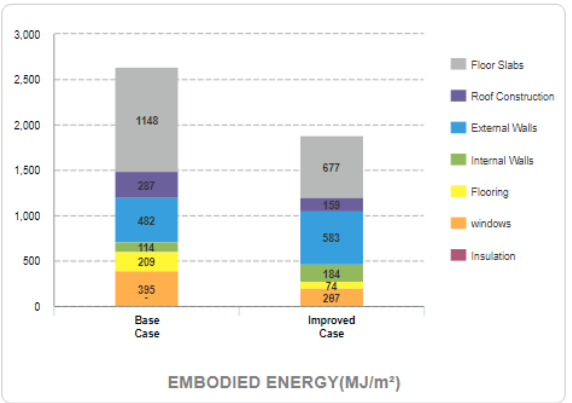


### Materials Efficiency Measures

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

Ref	Building Material	Improved Case Selection	Proportion %	Thickness	Steel Rebar
OFM01*	Floor Slabs <a href="#">Upload Document(s)</a>	In-Situ Reinforced Concrete Slab		120 mm	33 kg/m <sup>2</sup>
OFM02*	Roof Construction <a href="#">Upload Document(s)</a>	Type 1 In-Situ Reinforced Concrete Slab	100 %	100 mm	33 kg/m <sup>2</sup>
OFM03*	External Walls <a href="#">Upload Document(s)</a>	Type 1 Common Brick Wall with Internal & External Plaster	100 %	150 mm	
OFM04*	Internal Walls <a href="#">Upload Document(s)</a>	Type 1 Common Brick Wall with Plaster on Both Sides	100 %	150 mm	
OFM05*	Flooring <a href="#">Upload Document(s)</a>	Type 1 Finished Concrete Floor	100 %		
OFM06*	Window Frames <a href="#">Upload Document(s)</a>	Type 1 Aluminium	100 %	Single Glazing	

### 28.50% Meets EDGE Material Standard



Disclaimer: EDGE is designed as comparative software and is not a design tool. Therefore predicted results for energy, water and materials may vary from actuals.

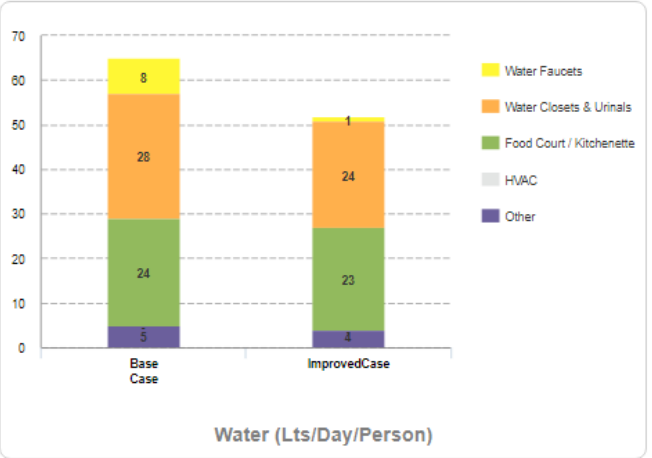


### Water Efficiency Measures

Choose water efficiency measures to achieve savings of at least 20%.

- OFW01\*  Low-Flow Faucets in All Bathrooms - 1 L/min  
 L/min  
[Upload Document\(s\)](#) | [Calculator](#)
- OFW02\*  Dual Flush for Water Closets in All Bathrooms - 4 L/first flush and 3 L/second flush
- OFW03\*  Water-Efficient Urinals in All Other Bathrooms - 1 L/flush  
 L/flush  
[Upload Document\(s\)](#)
- OFW04\*  Water-Efficient Faucets for Kitchen Sinks - 4 L/min
- OFW05  Condensate Water Recovery
- OFW06  Rainwater Harvesting System - 40% of Roof Area Used for Collection  
 % of Roof Area Used   
[Upload Document\(s\)](#)
- OFW07  Grey Water Treatment and Recycling System  
[Upload Document\(s\)](#)

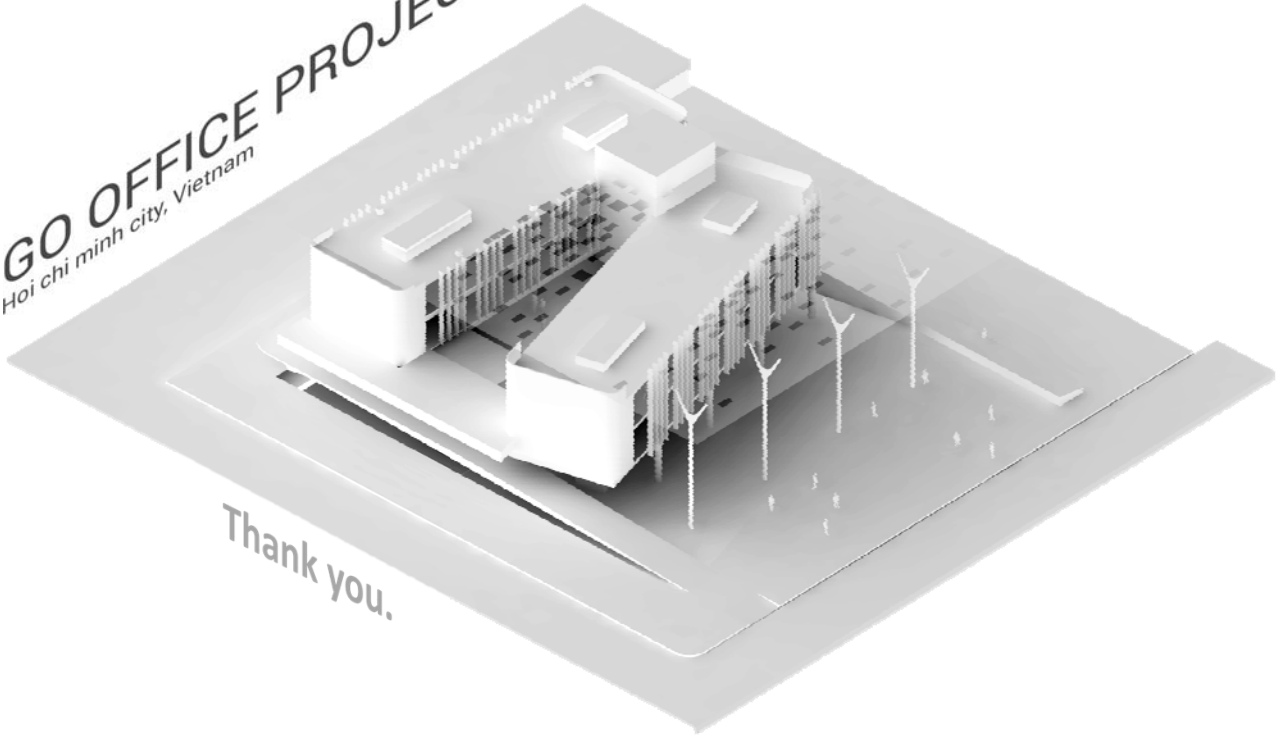
### 20.52% Meets EDGE Water Standard



Disclaimer: EDGE is designed as comparative software and is not a design tool. Therefore predicted results for energy, water and materials may vary from actuals.



**GO OFFICE PROJECT**  
Hoi chi minh city, Vietnam



Thank you.