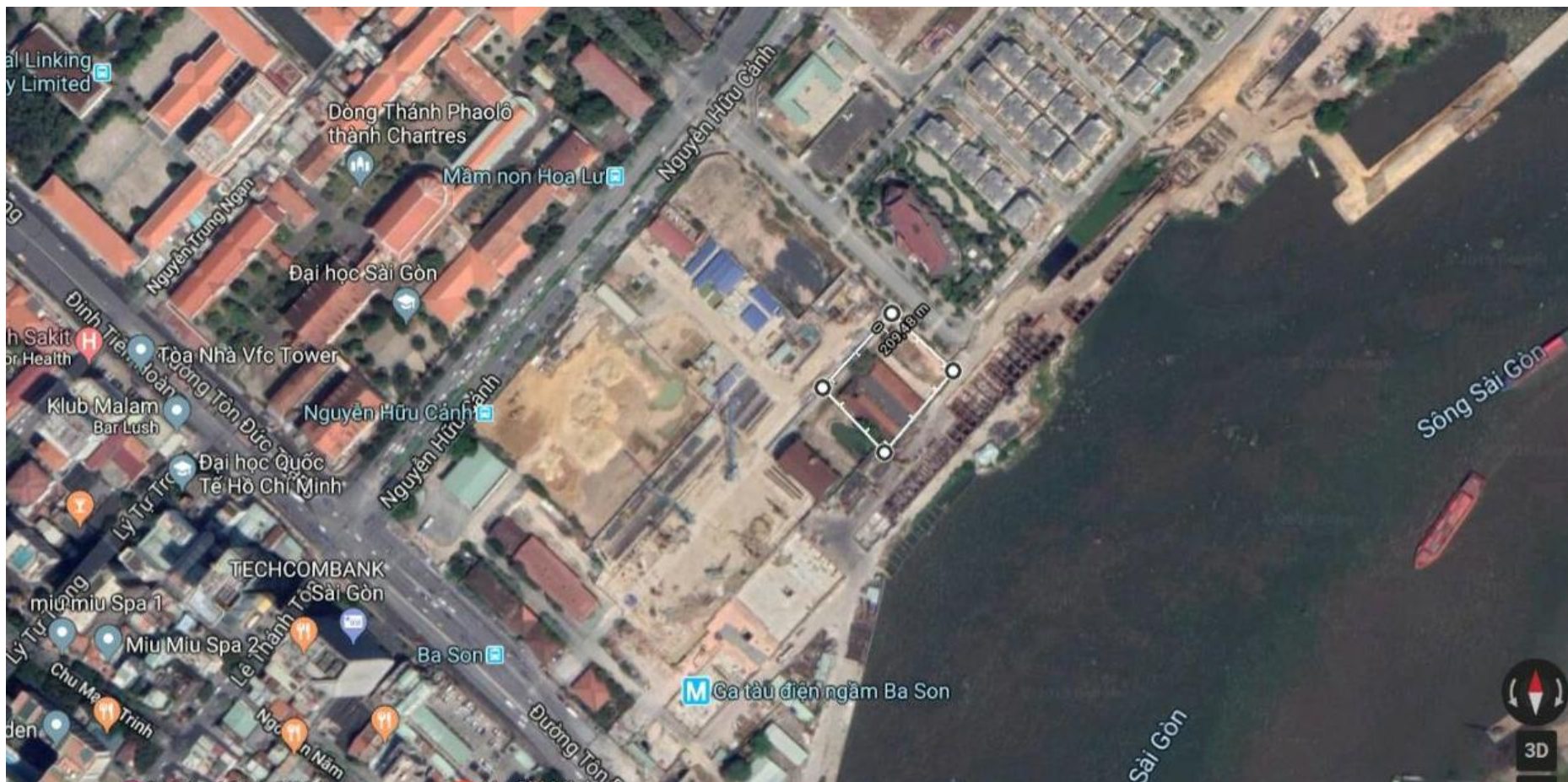


# HO CHI MINH APARTMENT

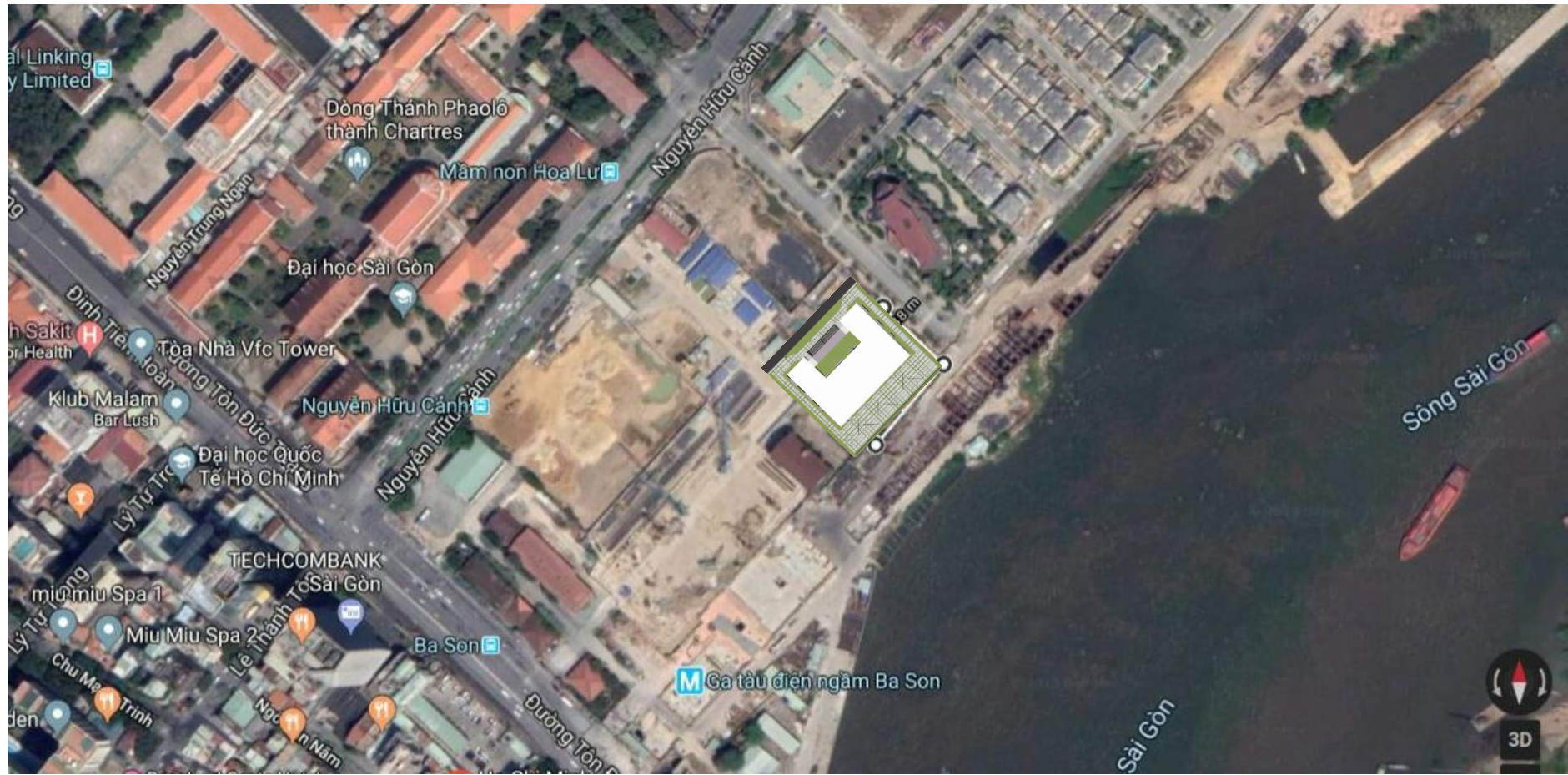
DHIA KHAIRUNNISA





FUNGSI : APERTMENT  
JUMLAH LANTAI 4  
AREA : 3600 m2  
OCCUPANCY : 100 UNIT @ 50 M2

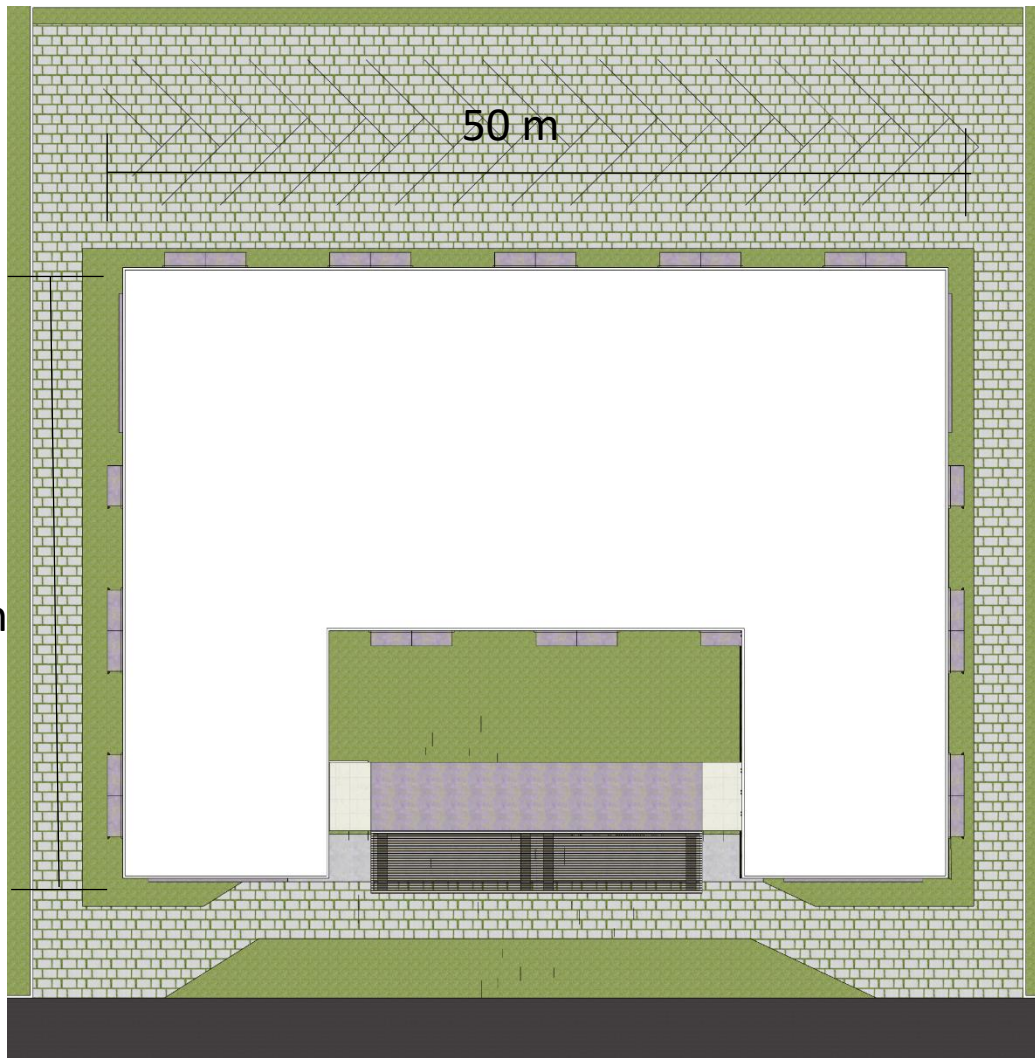




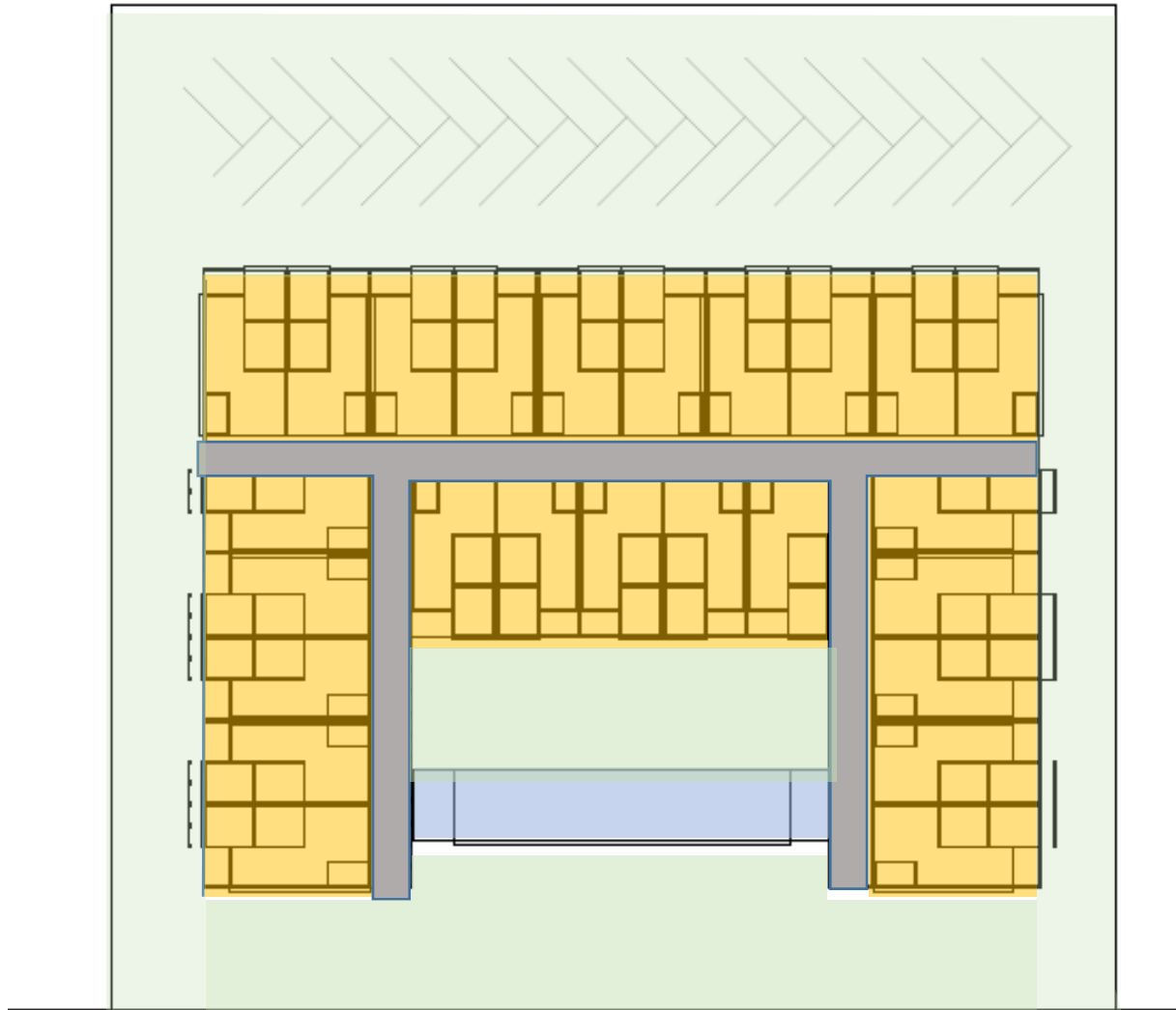




HO CHI MINH  
APARTMENT



FLOORPLAN AREA : 1475 M2 X 4 : 6000 M2







**ENERGY  
SAVING**

**55%**

**WATER  
SAVING**

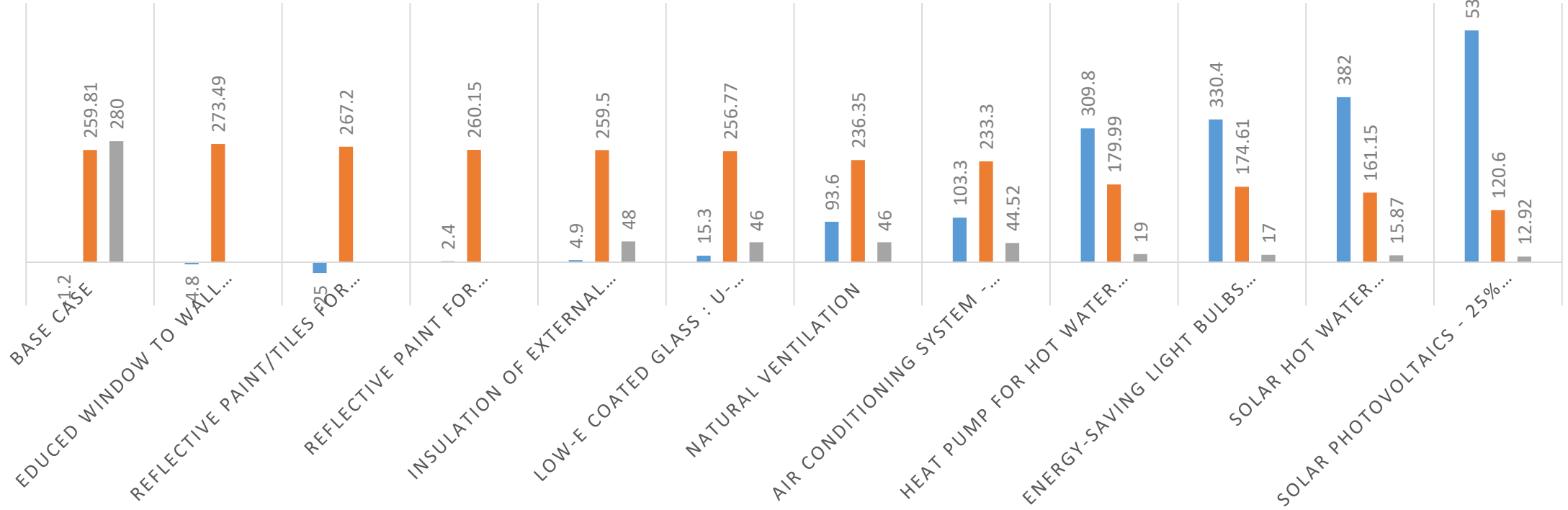
**65%**

**MATERIAL  
SAVING**

**38%**

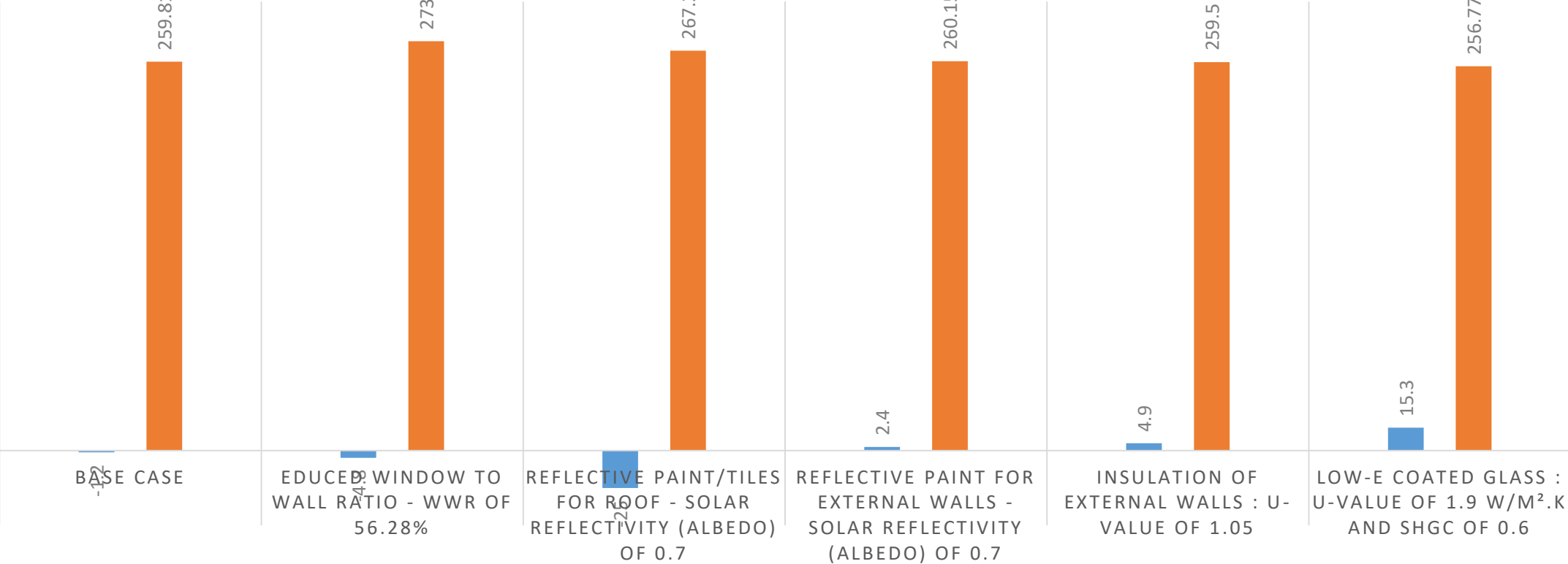
# ENERGY STRATEGY

■ ENERGY SAVING ■ FINAL ENERGY USE ■ PAYBACK YEAR

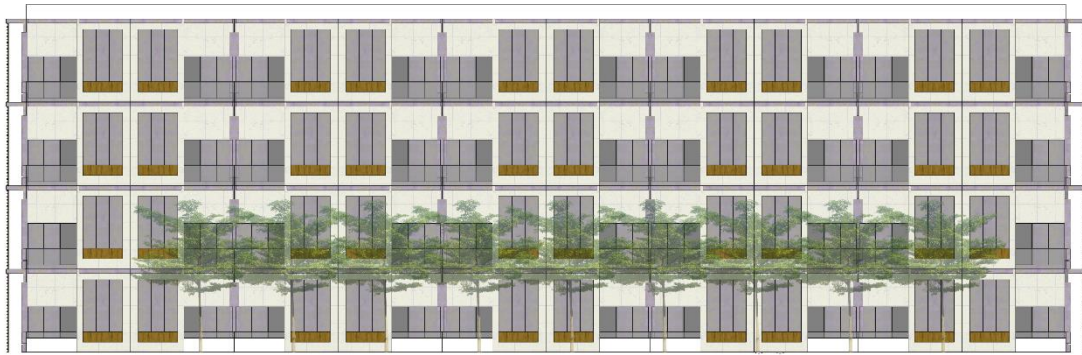


# ENERGY STRATEGY

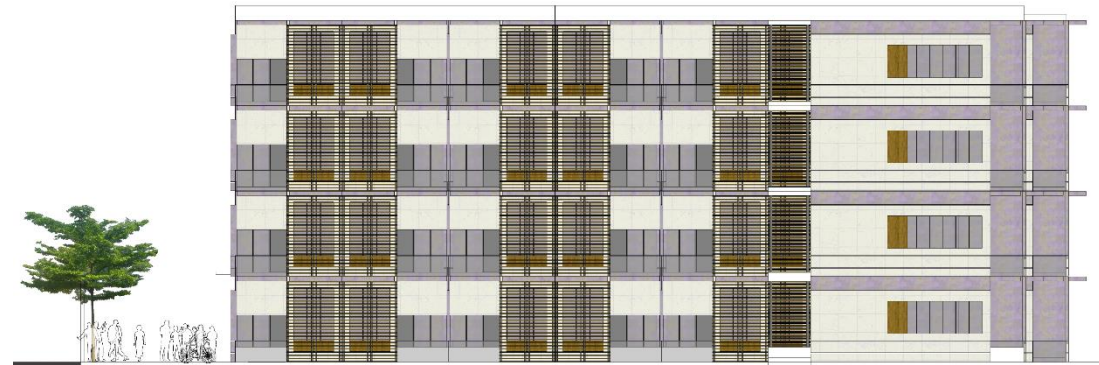
■ ENERGY SAVING ■ FINAL ENERGY USE



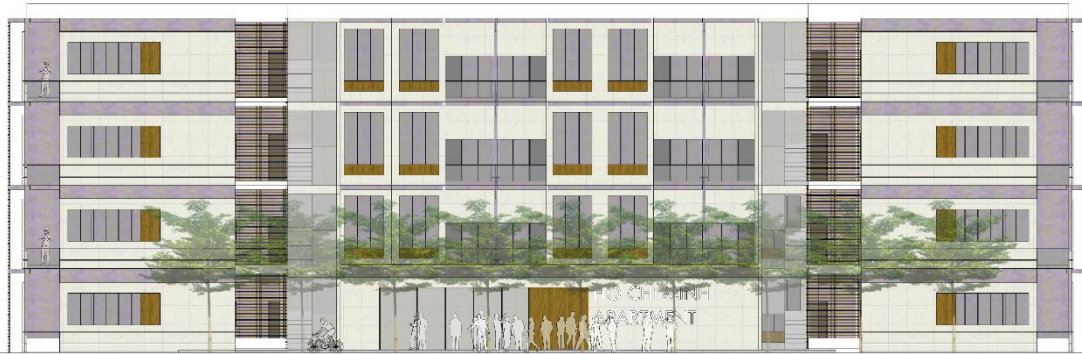




**TAMPAK BARAT**



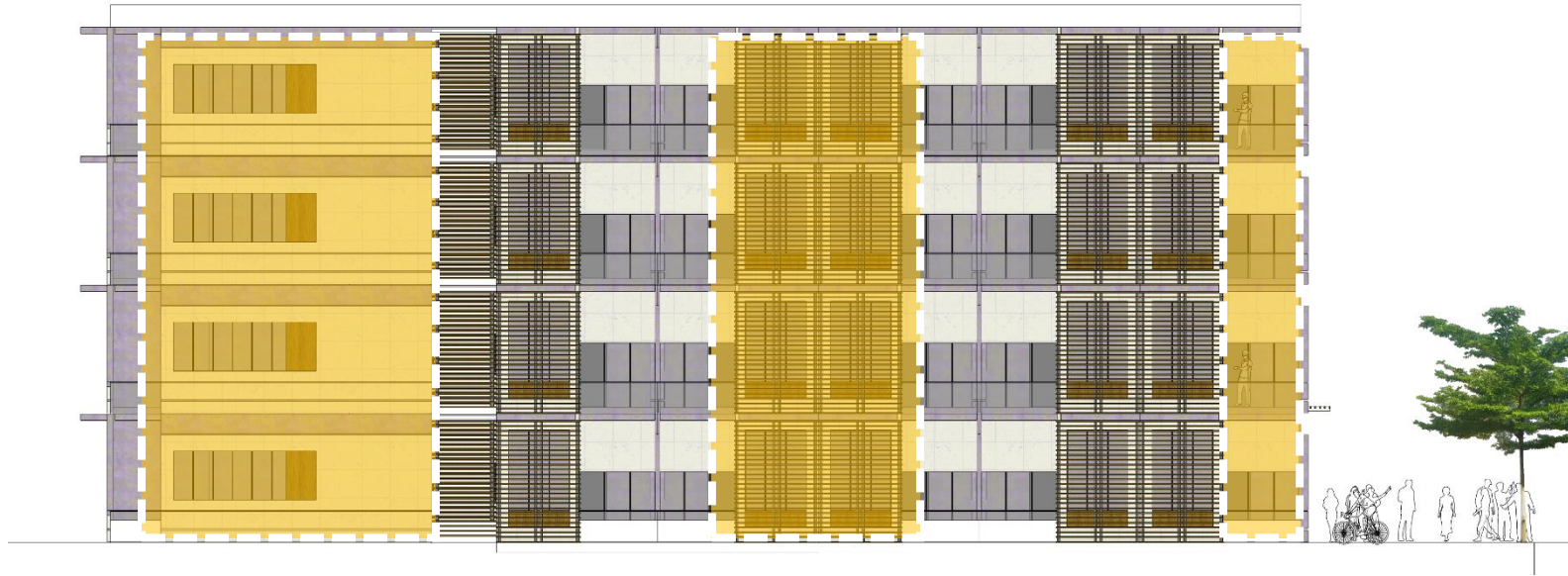
**TAMPAK UTARA**



**TAMPAK TIMUR**

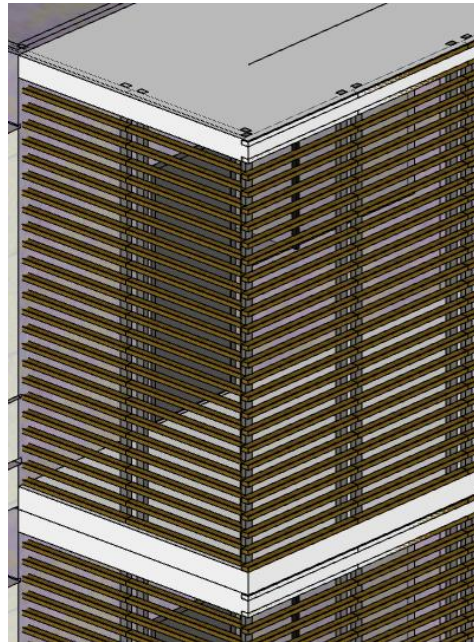


**TAMPAK SELATAN**



**LOW E GLASS**

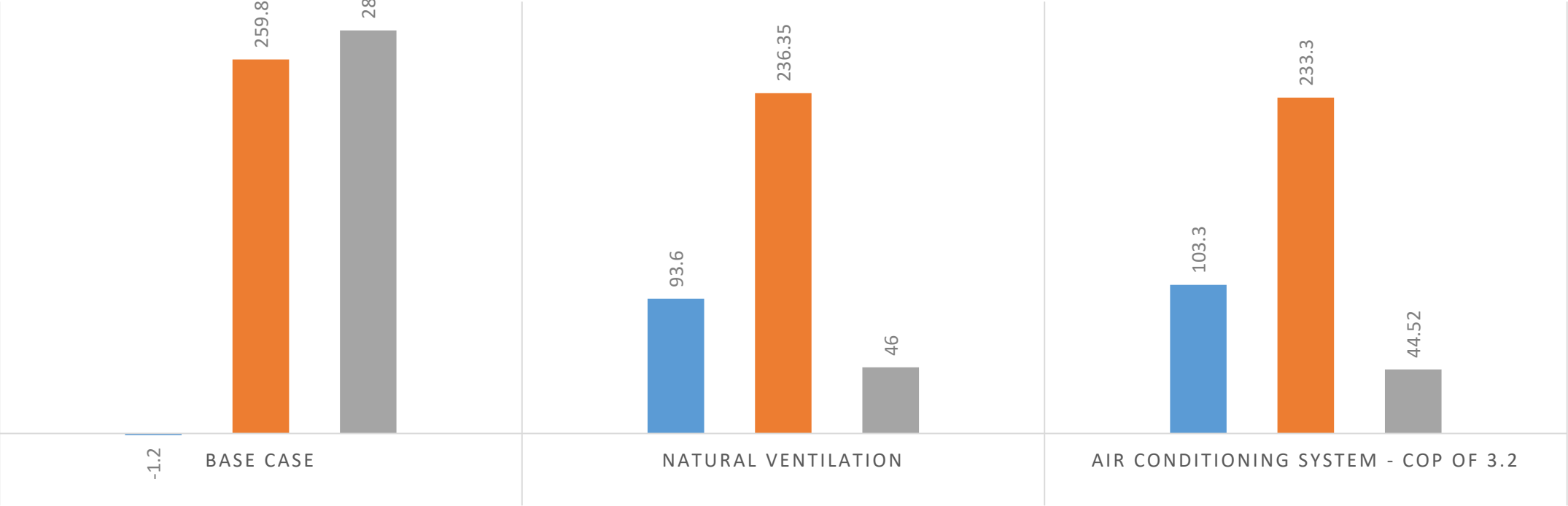
**WALL INSULATION WITH  
TILE CLAY**



**WIDOW TO WALL RATIO 57%**  
**EXTERNAL SHADING 40%**

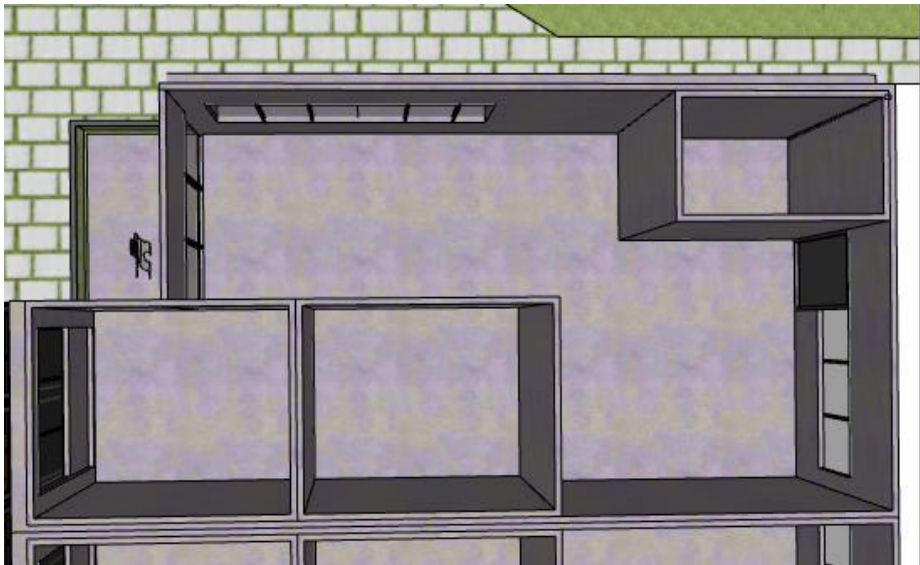
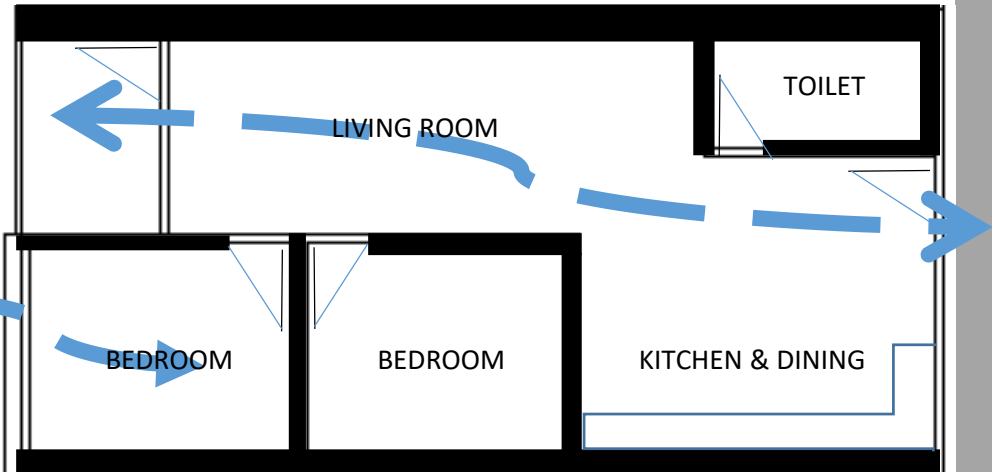
# ENERGY STRATEGY

■ ENERGY SAVING ■ FINAL ENERGY USE ■ PAYBACK YEAR

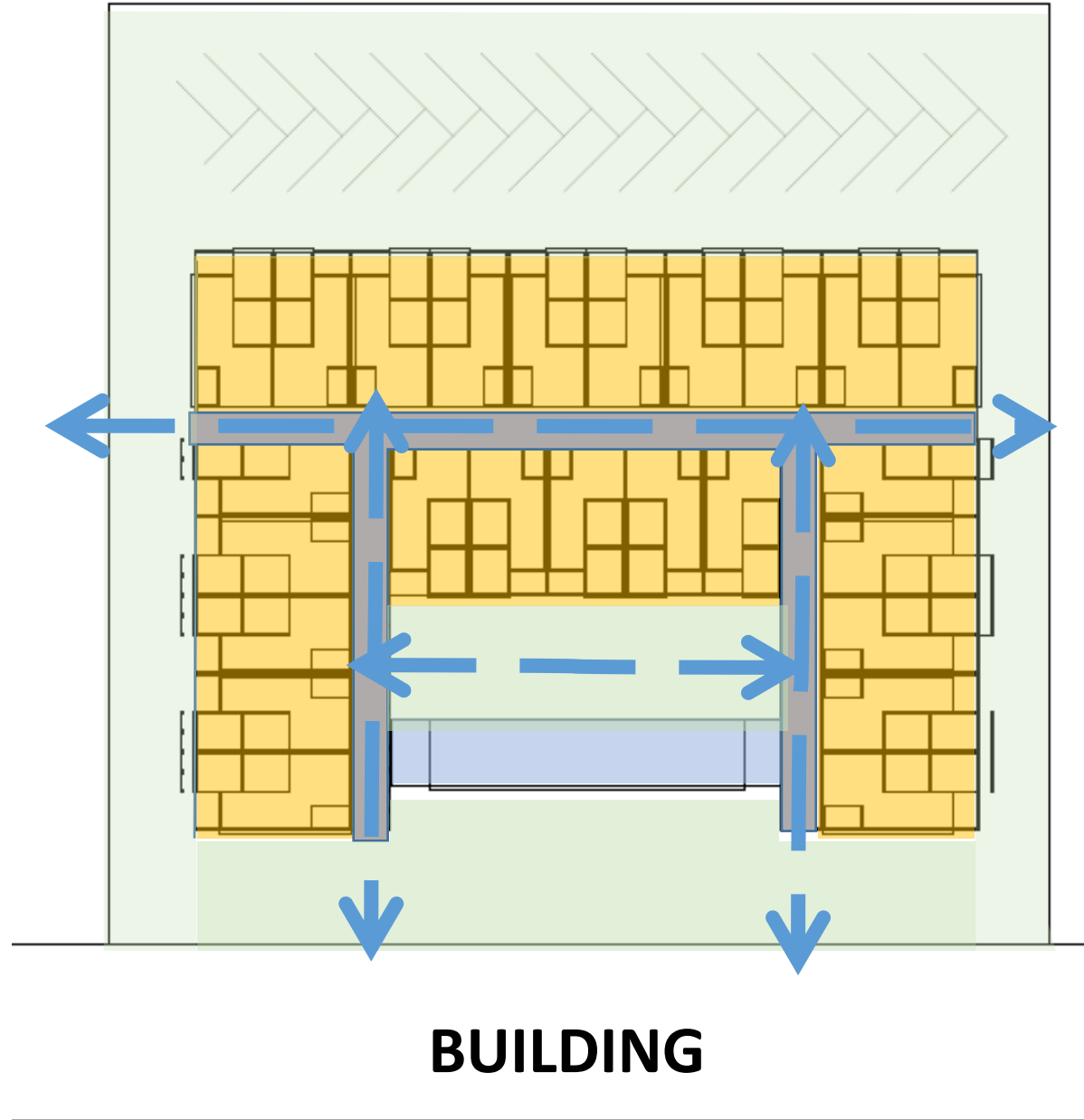




# NATURAL VENTILATION



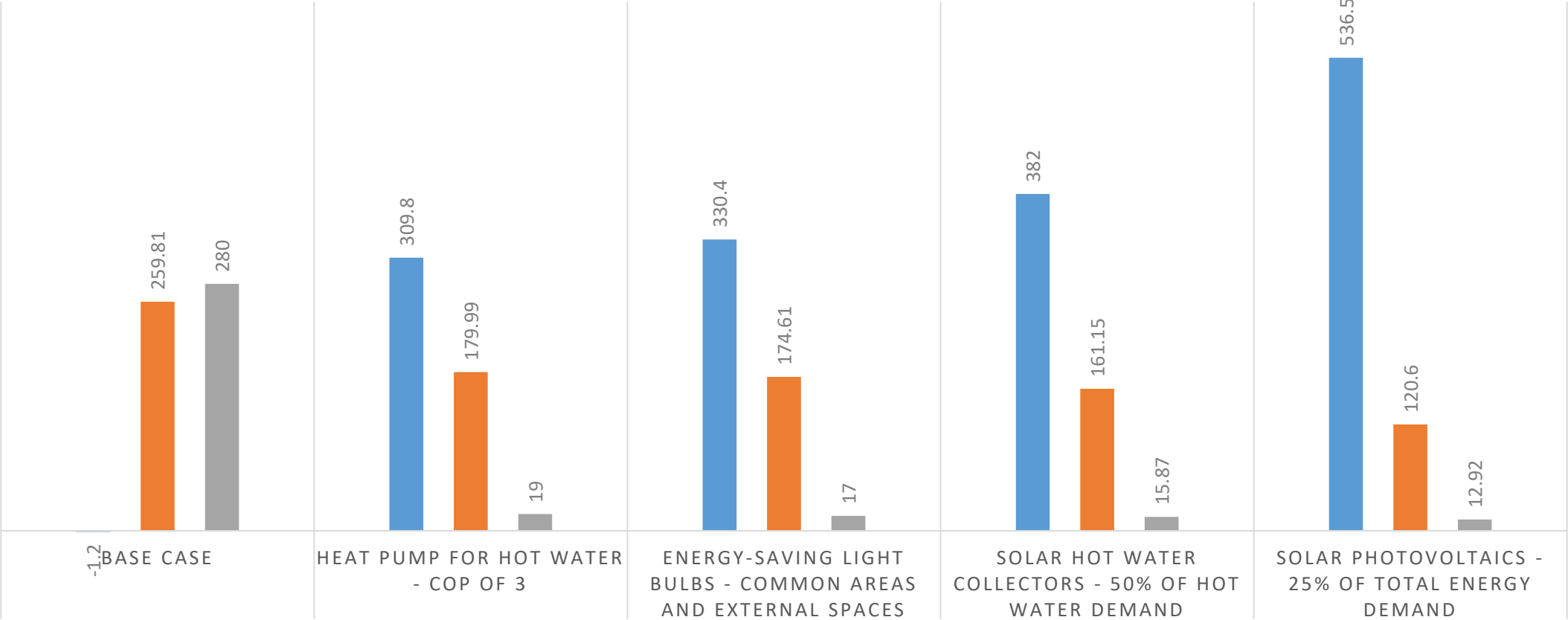
**APARTMENT UNIT**



**BUILDING**

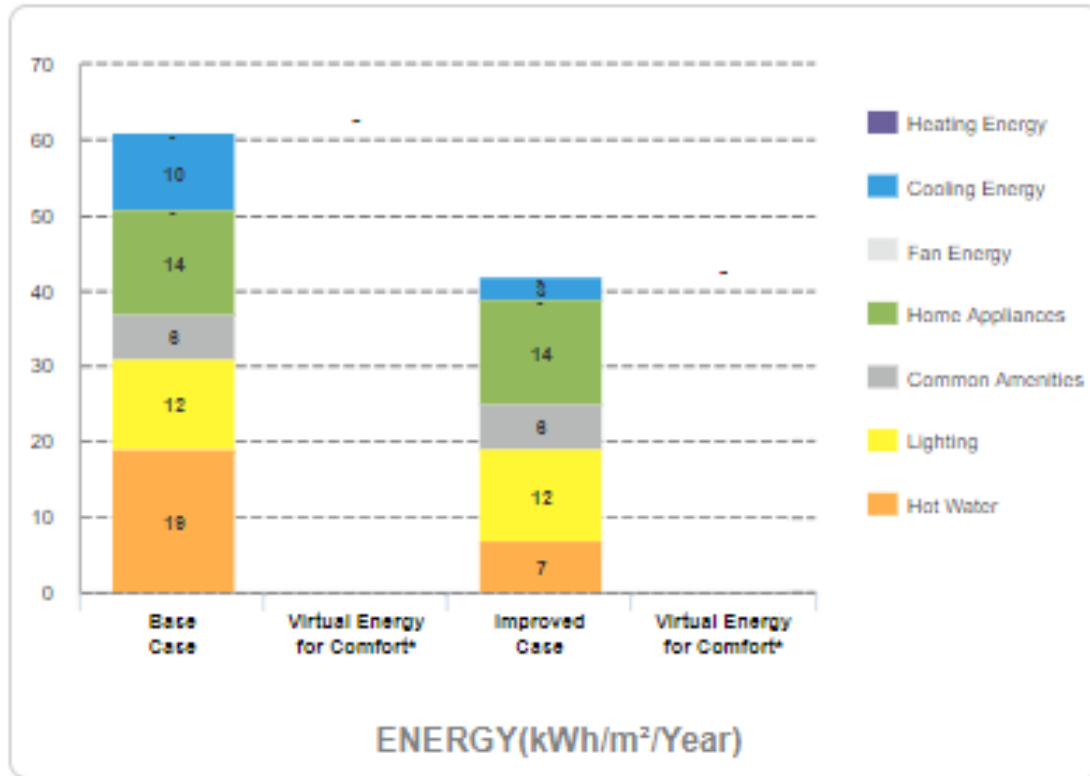
# ENERGY STRATEGY

■ ENERGY SAVING ■ FINAL ENERGY USE ■ PAYBACK YEAR

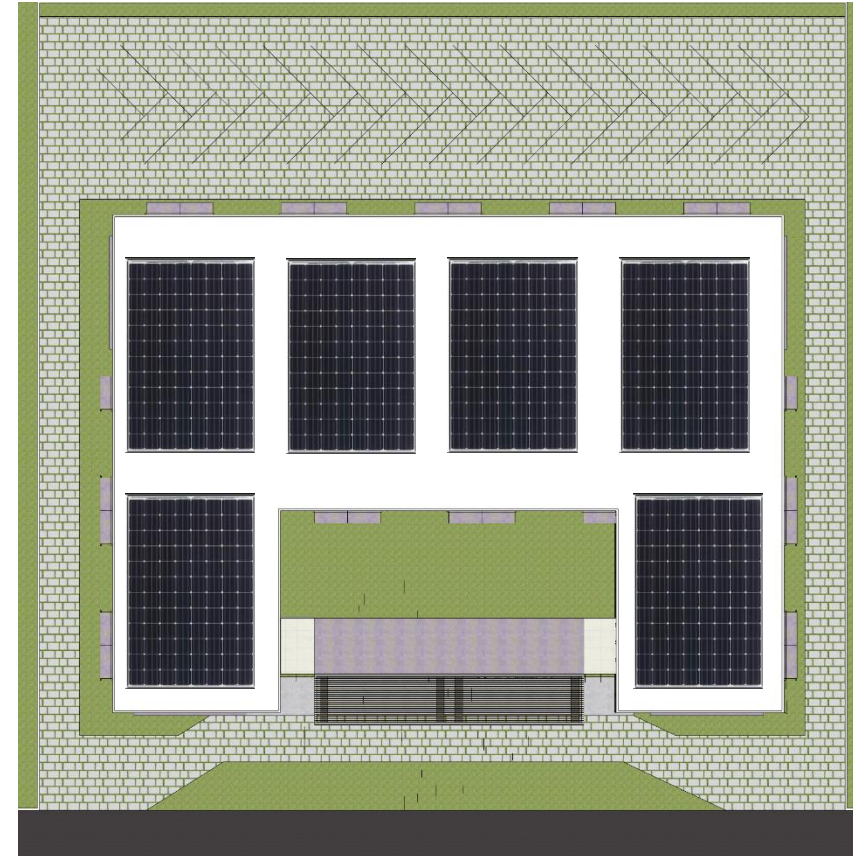


# TIPPING POINT: HEAT PUMP FOR HOT WATER

30.98% Meets EDGE Energy Standard



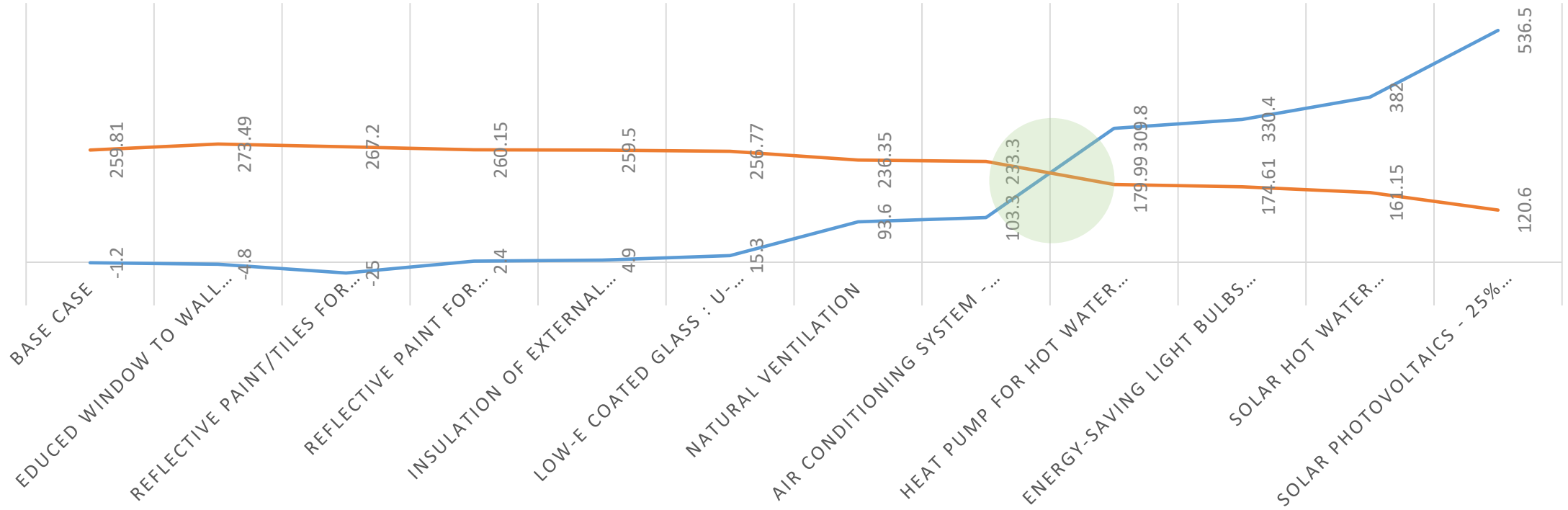
# SOLAR PANEL Reflective Paint Roof





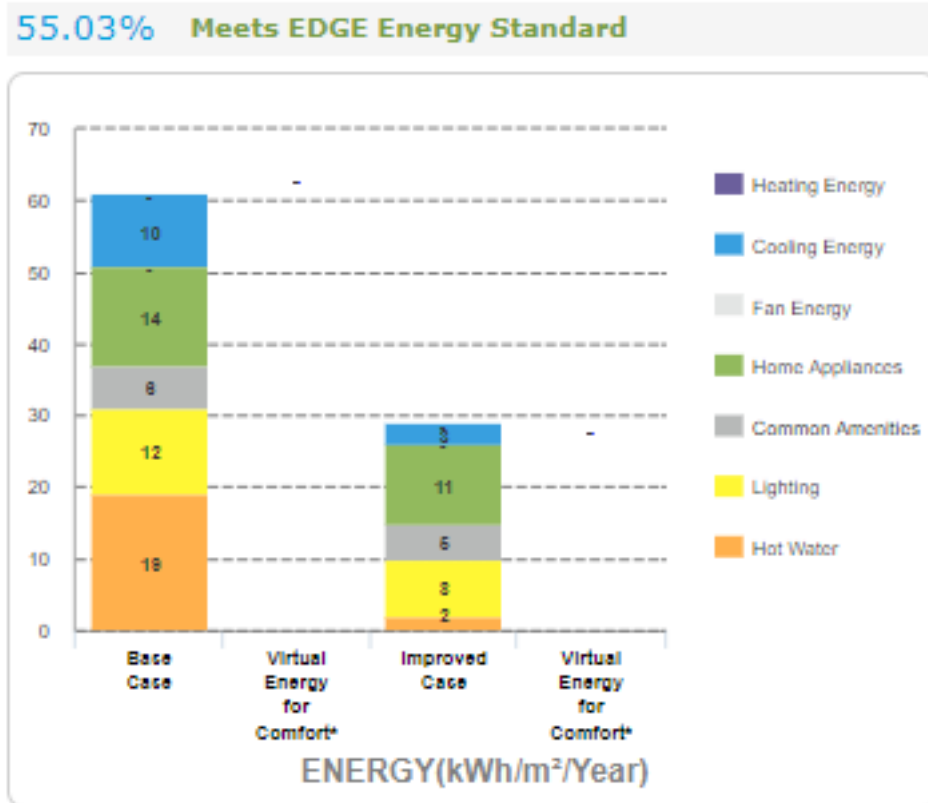
# ENERGY STRATEGY

— ENERGY SAVING — FINAL ENERGY USE



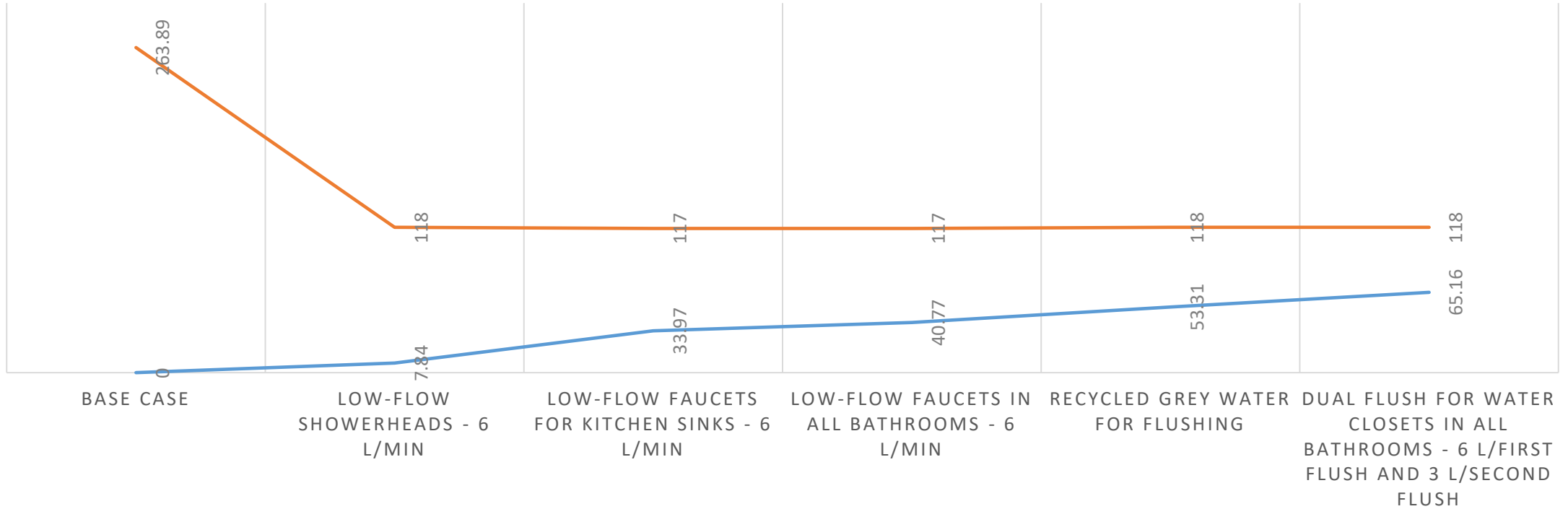
# ENERGY SAVING

## 55%

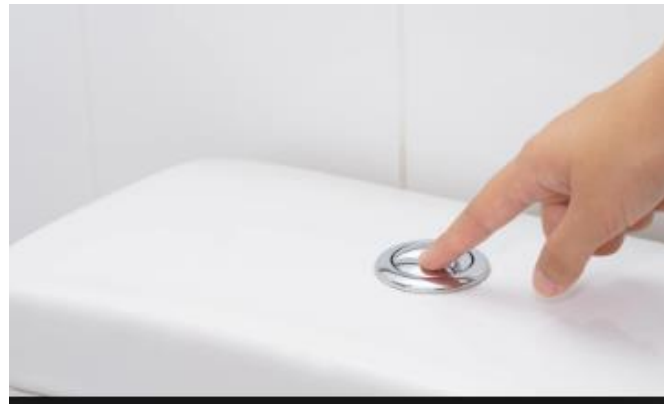


# WATER STRATEGY

— ENERGY SAVING — FINAL ENERGY USE



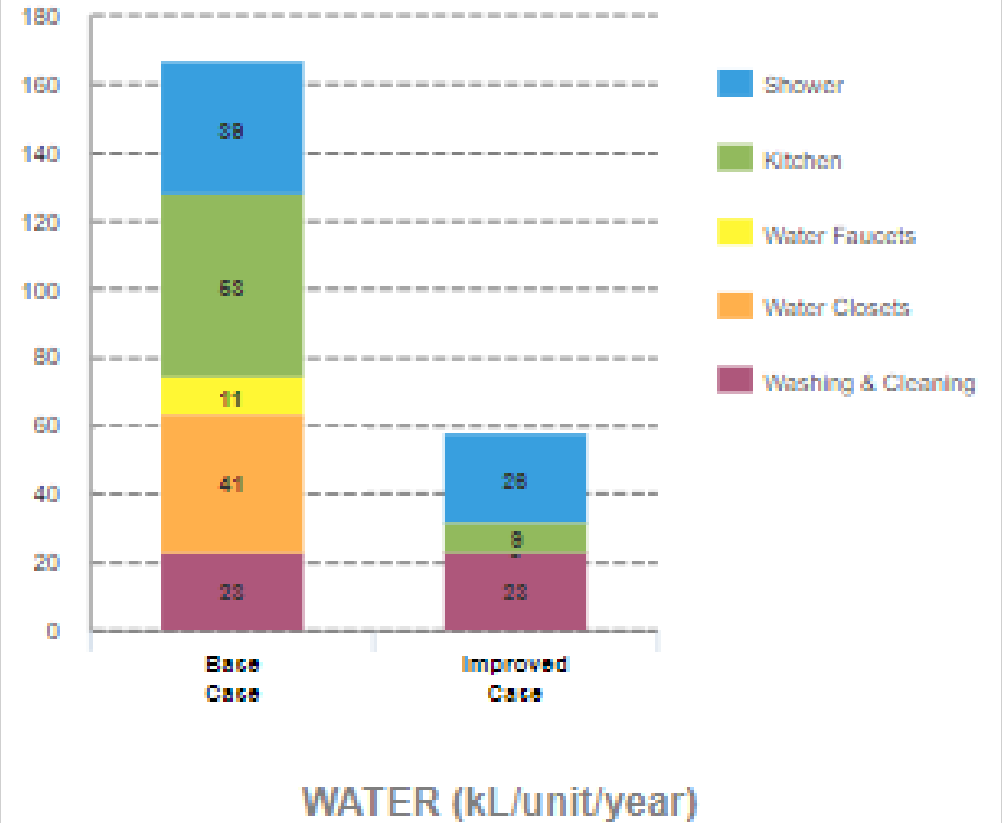




Neoperl M22 Directional Swivel Regulating 6L/min Aerator

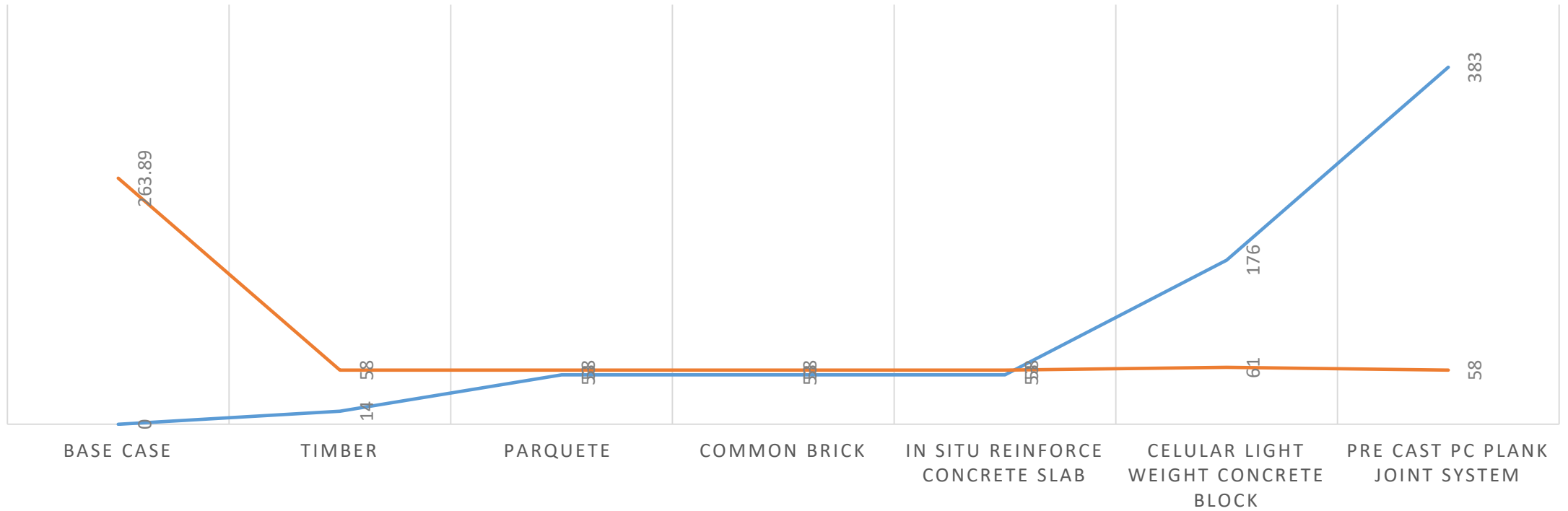
Excl. Tax: R 67.83  
Incl. Tax: R 78.00

65.16% Meets EDGE Water Standard



# MATERIAL STRATEGY

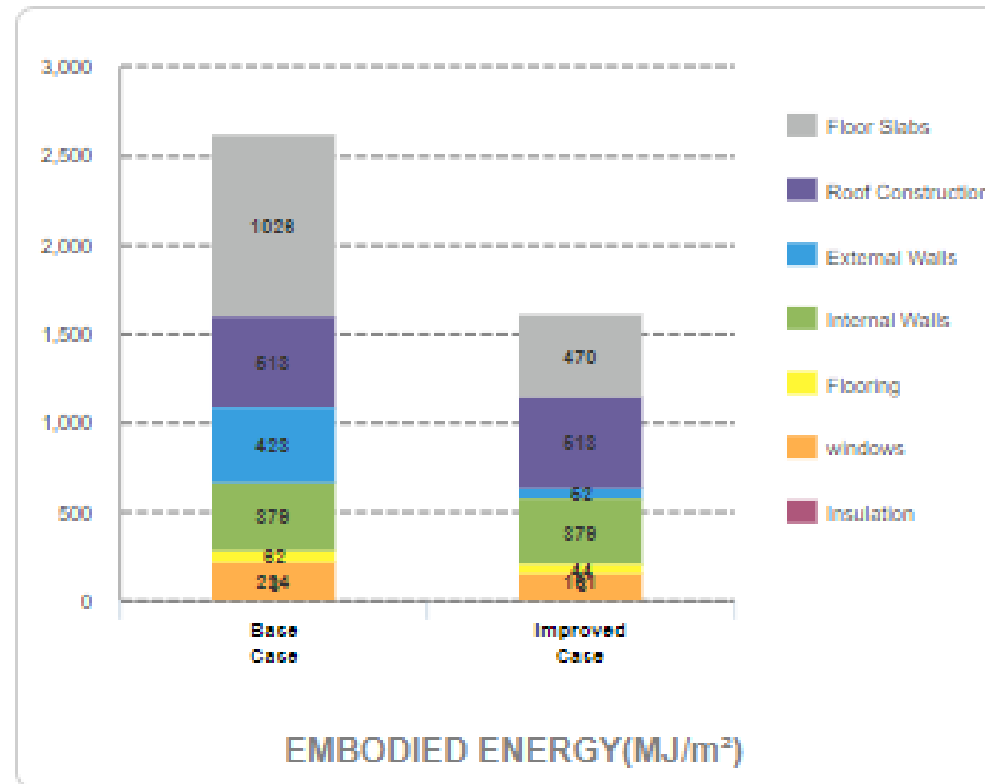
— ENERGY SAVING — FINAL ENERGY USE



# MATERIAL SAVING

## 38%

38.31% Meets EDGE Materials Standard



## INCREMENTAL COST

**26,222,665.01 vnd/unit**

## Operational CO<sub>2</sub> Savings

**1.41 Tco/year**

## PAYBACK IN YEARS

**5.84 YEARS**

## Embodied Energy Savings

**39951.69 MJ/Unit**

## FINAL ENERGY USE

**116.28**

**KWH/MOUNTH**

## FINAL WATER USE

**4.87**

**kL/Month/Unit**