

# HIGH RISE RESIDENTIAL AND COMMERCIAL BUILDING Y1 **CAPITALAND - FELIX EN VISTA**





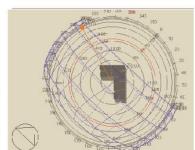


### High rise residential and commercial building Y1 Capitaland - Felix En Vista

- Address: Block Y1, Thanh My Loi Ward, District 2, Ho Chi Minh City
- Total height: 35 floors
- Total floor area (Blocks B&C): About 84,256 m<sup>2</sup>

**Energy efficiency technical assistance:** Project "Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Vietnam" (Project EECB)

**Goal:** To reduce energy consumption by at least 25% compared to the requirements of Vietnam Energy Efficiency Building Code QC09:2013/BXD



### THE MAIN BENEFITS



TOTAL **ENERGY SAVING** 

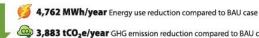


48%



Lighting

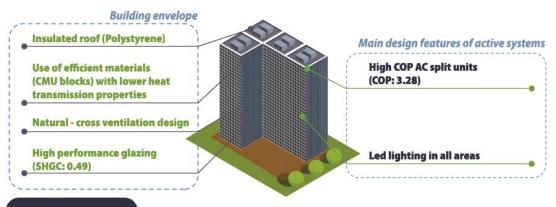




3,883 tCO<sub>2</sub>e/year GHG emission reduction compared to BAU case

#### Energy use intensity (kWh/m²/year) 120 108 100 **R1** 80 8 60 40 20 BAU case QCXD 09:2013/BXD Proposed case HVAC Lighting Plugload

## **TECHNICAL DESIGN**



## FINANCIAL INFORMATION





6 months













# **NEW ADMIN AND EDUCATIONAL BUILDING,** COLLEGE OF URBAN WORKS CONSTRUCTION







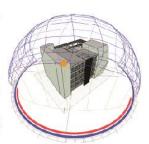


#### New admin and educational building, College of Urban works construction

- Address: Yen Thuong, Gia Lam, Hanoi
- Total height: 5 floors. Total floor area: 3,875 m²

**Energy efficiency technical assistance:** Project "Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Vietnam" (Project EECB)

**Goal:** To reduce energy consumption by at least 25% compared to the requirements of Vietnam Energy Efficiency Building Code QC09:2013/BXD



## THE MAIN BENEFITS

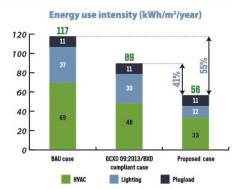


**ENERGY SAVING** 







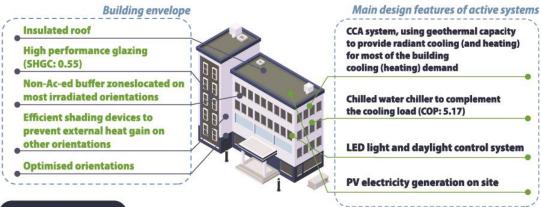




245 MWh/year Energy use reduction compared to BAU case

200 tCO2e/year GHG emission reduction compared to BAU case

### **TECHNICAL DESIGN**



### **FINANCIAL INFORMATION**



8%

Payback period



Annual energy cost saving



Proposed case compared to BAU case







# **THE GOLDEN LOTUS**





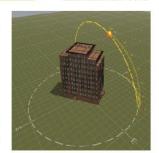


### The Golden Lotus

- Address: No 7, Nam Quoc Cang street, Pham Ngu Lao ward, District 1, Ho Chi Minh city
- Total height: 10 floors and 02 basements.
- Total floor area (Above ground level): 6,210 m<sup>2</sup>

Energy efficiency technical assistance: Project "Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Vietnam" (Project EECB)

Goal: To reduce energy consumption by at least 25% compared to the requirements of Vietnam Energy Efficiency Building Code



### THE MAIN BENEFITS



**ENERGY SAVING** 

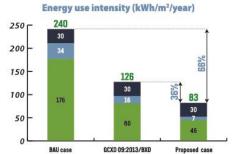












compliant case

HVAC



878 MWh/year Energy use reduction compared to BAU case

716 tCO2e/year GHG emission reduction compared to BAU case

### **TECHNICAL DESIGN**

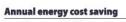


## FINANCIAL INFORMATION











**Under evaluation** 

Proposed case compared to RAU case







# **CONINCO BUILDING**







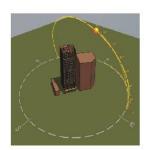


## CONINCO Building

- Address: 4 Ton That Tung, Hanoi, Vietnam
  Total height: 20 floors (including technical floor) + 3.5 basements
- Total floor area: 26,313 m<sup>2</sup>

Energy efficiency technical assistance: Project "Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Vietnam" (Project EECB)

**Goal:** To reduce energy consumption by at least 30% compared to the requirements of Vietnam Energy Efficiency Building Code QC09:2013/BXD



## THE MAIN BENEFITS



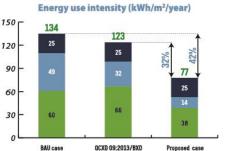
TOTAL **ENERGY SAVING**  HVAC







Lighting



Lighting

Plugload

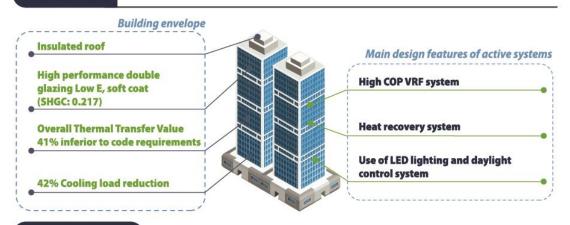
HVAC



1,156 MWh/year Energy use reduction compared to BAU case

923 tCO2e/year GHG emission reduction compared to BAU case

### **TECHNICAL DESIGN**



## FINANCIAL INFORMATION











