



**Energy Complex (EnCo)
(New and Existing Building)**



Energy Complex



<u>Building A</u>	117,859	m ²
<u>Building B</u>	61,458	m ²
<u>Building C</u>	19,733	m ²
<u>Building E</u>	39,401	m ²
<u>Building D</u>	61,458	m ²
<u>Building F (Electric Chiller)</u>	7,000	m ²
<u>Landscape</u>	37,623	m ²

Gross Space: 300,000 sq.m.

Efficient energy consumption by design and utilizing many new technologies



Energy Consumption of Typical building

140-200 kWh/sq.m./yr

-23 kWh/sq.m./yr

Electrical System

-18 kWh/sq.m./yr

Air Conditioning System

-3.2 kWh/sq.m./yr

Building Automation System

-2.4 kWh/sq.m./yr

Smart lift System

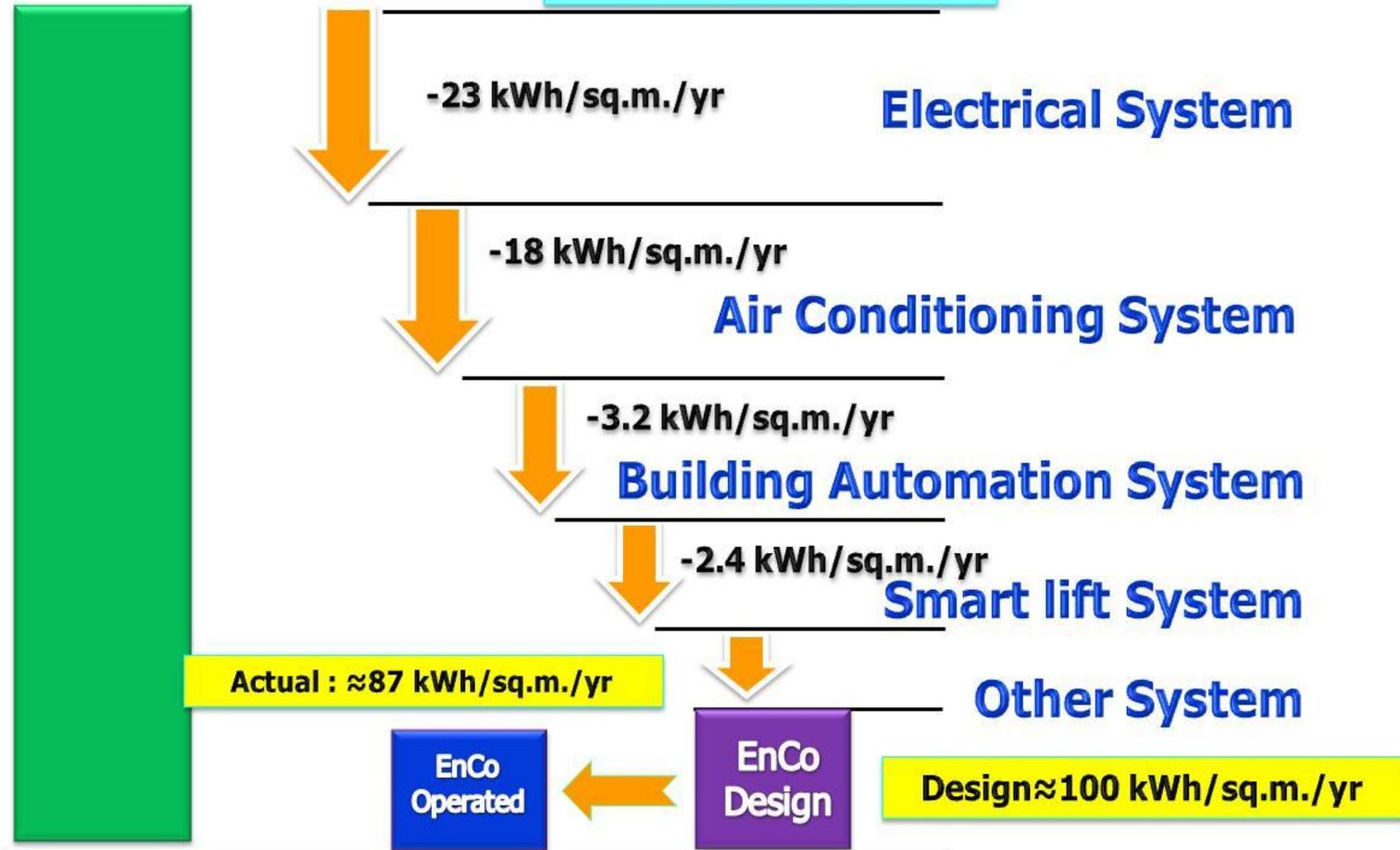
Actual : ≈ 87 kWh/sq.m./yr

Other System

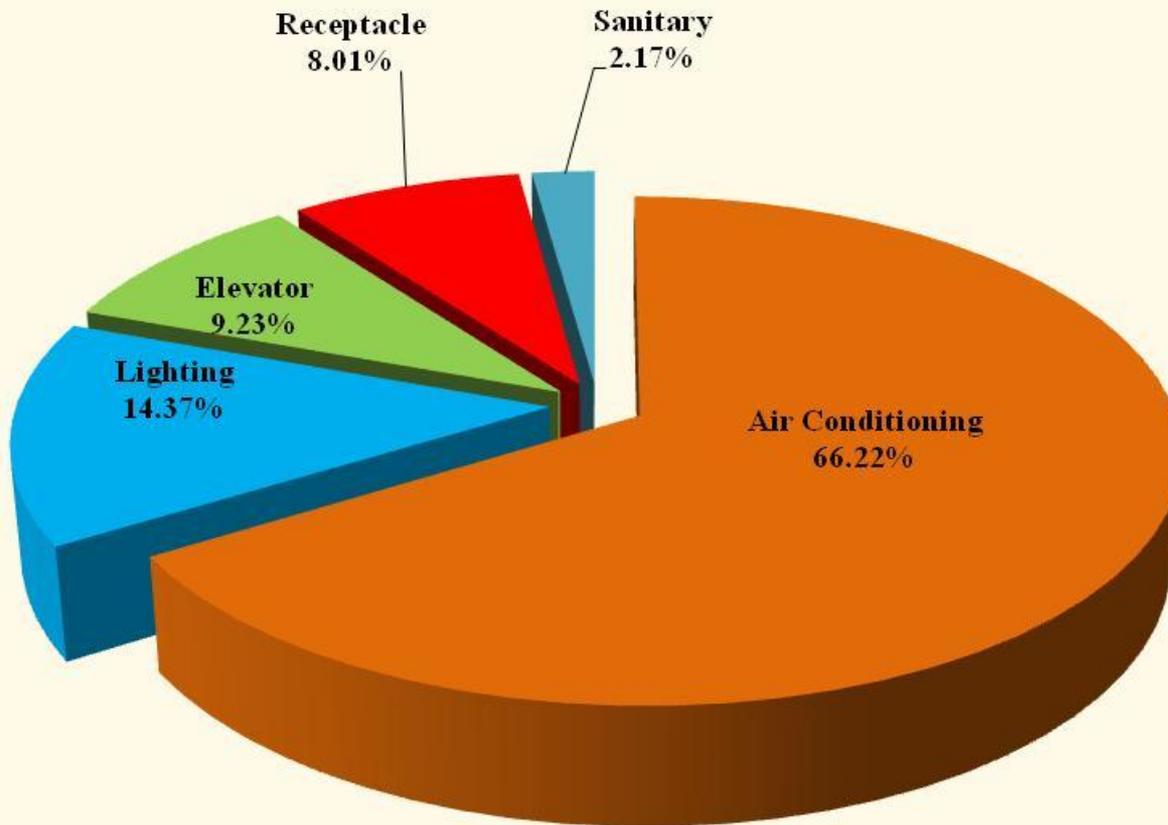
Design ≈ 100 kWh/sq.m./yr

EnCo
Operated

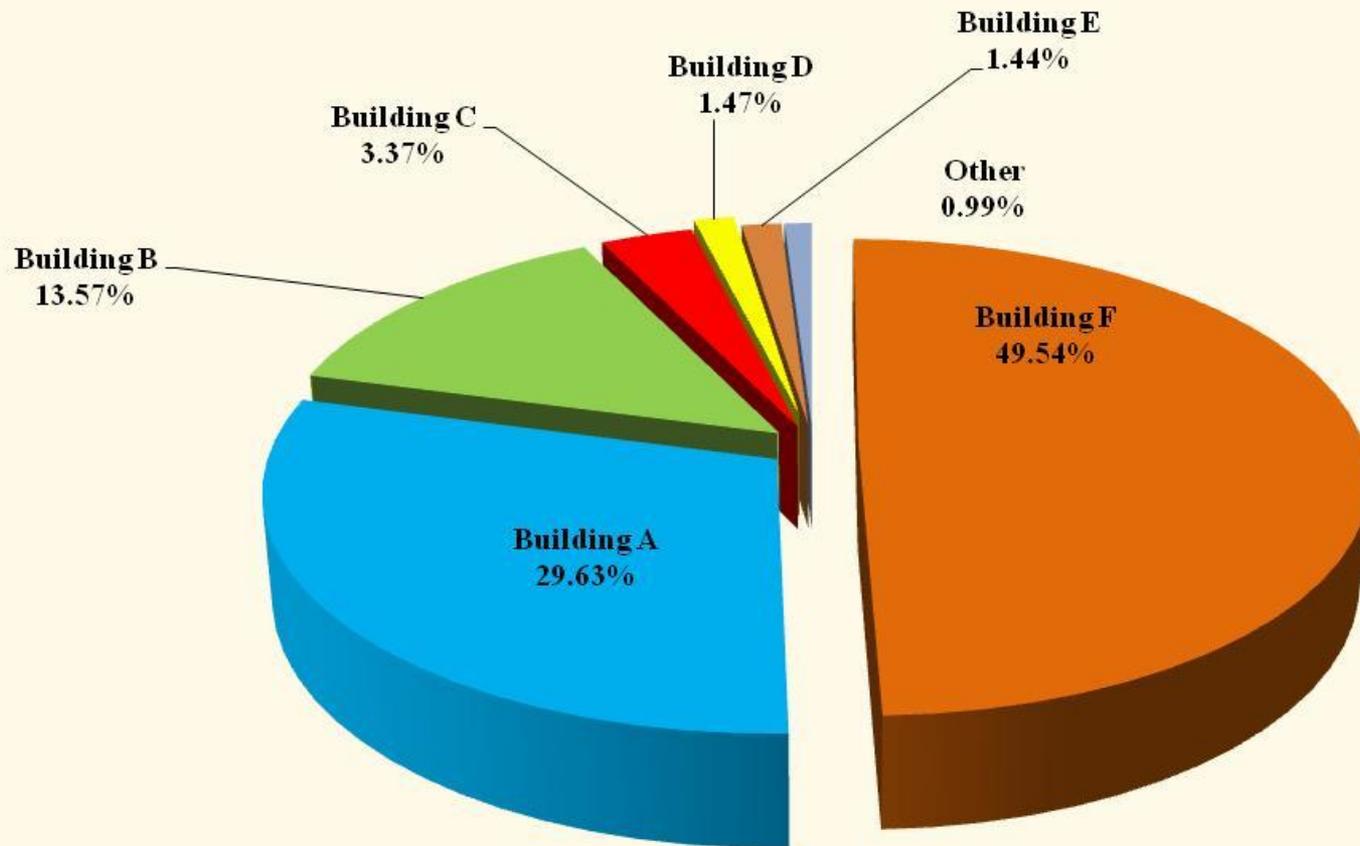
EnCo
Design



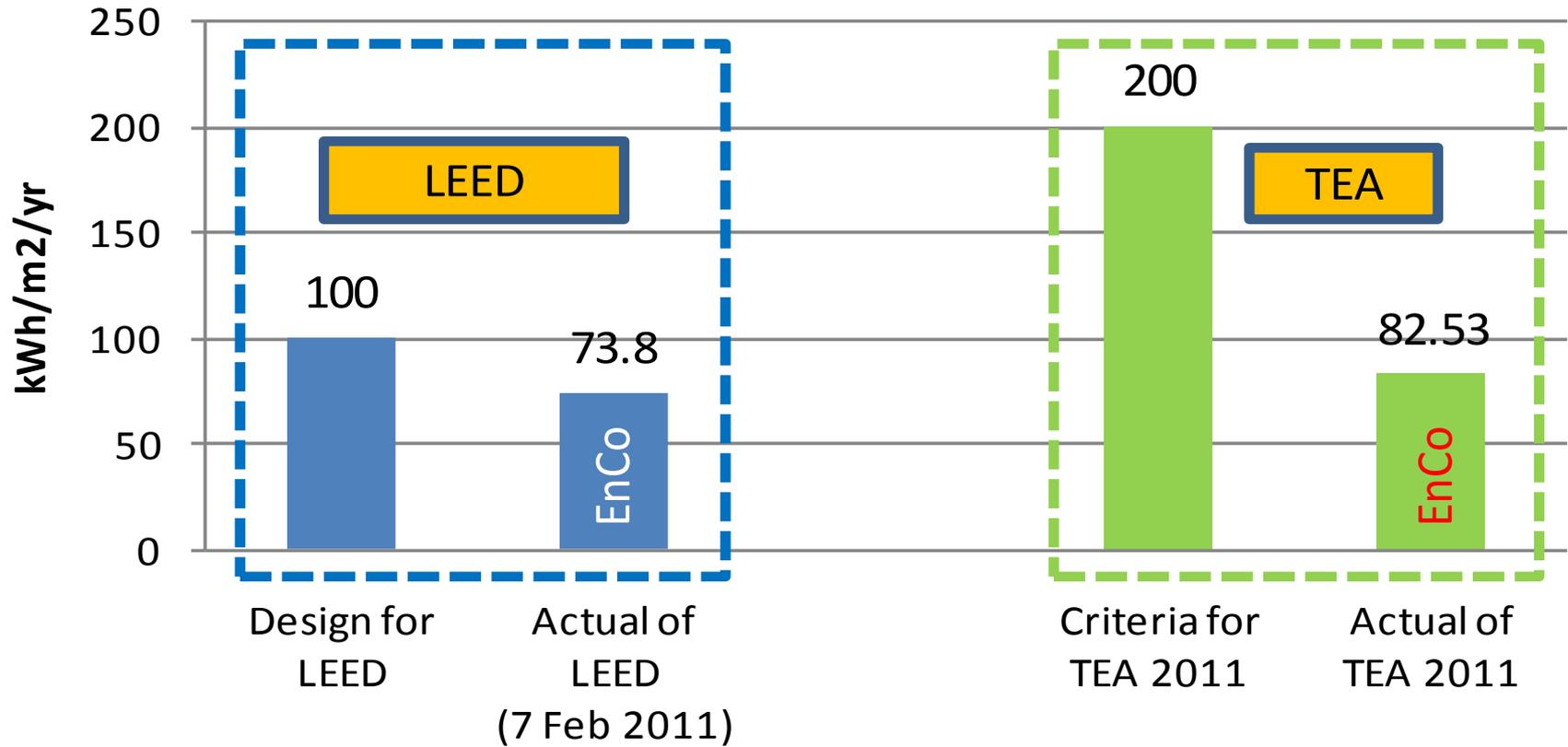
Energy Consumption by system (EnCo)



Energy Consumption by Building (EnCo)



SEC of EnCo



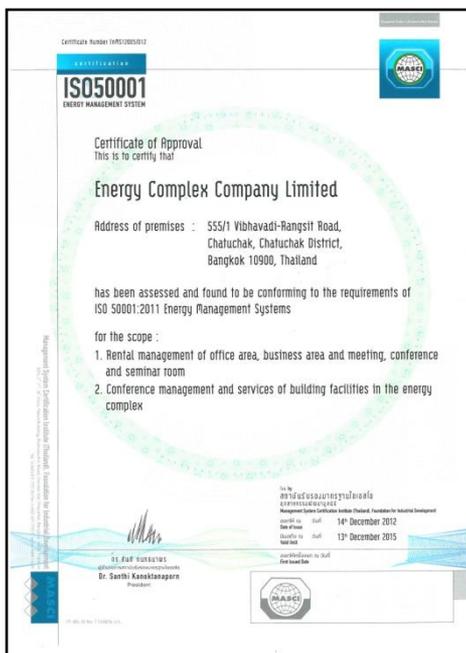
Energy Complex

AWARDS



Energy Complex

AWARDS 2013



**Certificate ISO : 50001
Energy Management System**



**Certificate AEMAS
Energy Management Gold Standard**