

Green Buildings in Vietnam – Time to move forward

Green Building Rating Tools in Vietnam

LEED



- By U.S. Green Building Council
- Worldwide adopted, over 167 countries
- Since 1998
- > 94,000 projects using LEED
- 4 levels of certificate



Others: Green Mark, DGNB, Green Star, BREEAM

Green Mark: Singapore

DGNB: Germany

Green Star (benchmarking): Australia

BREEAM (benchmarking): UK



- By Vietnam Green Building Council
- Applicable in Vietnam
- Since 2010, 17 certified projects

LOTUS



EDGE



By International Finance Corporation

In more than 140 developing countries

3,451,727sqm Certified

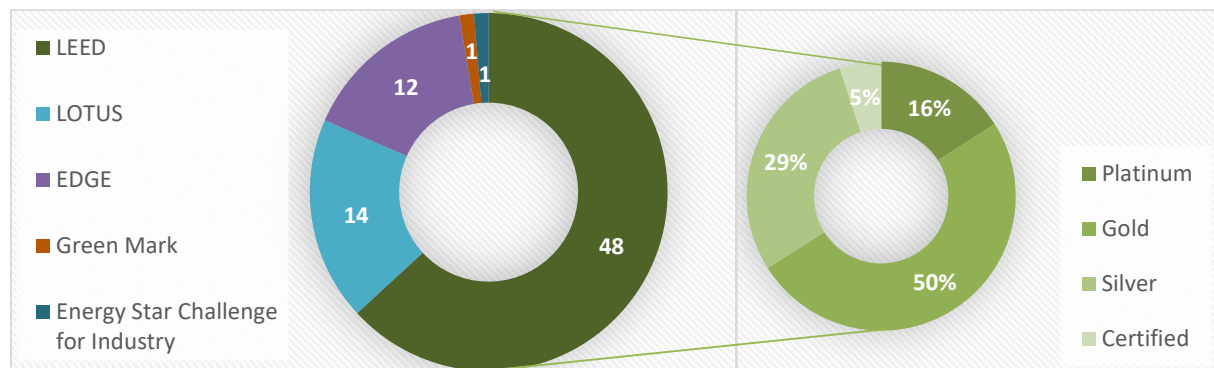
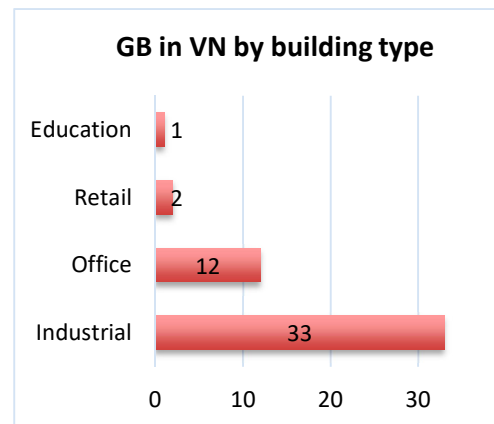
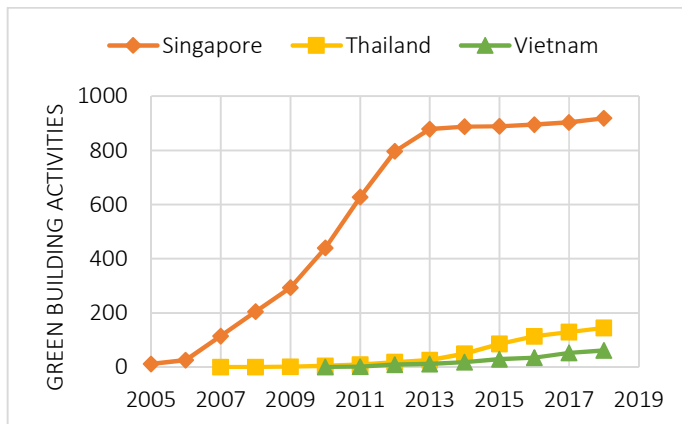
Simple software to evaluate

20% less energy use

20% less water use

20% less embodied energy

Green Buildings in Vietnam in number



Raw data source: www.gb.org/ to end of 2018

Choose the path for your building projects



OFFICE

- ✓ Higher values/ lower yields
- ✓ Attractive to premium tenants
- ✓ Higher rental rate
- ✓ Increased tenant productivity
- ✓ Higher tenant retention
- ✓ Lower operating costs
- ✓ Increased ROI (return on investment)
- ✓ Recommended rating tools: LEED BD+C (Core&Shell), LEED ID+C, EDGE (Office)



RESIDENTIAL

- ✓ Increased occupants' health and comfort
- ✓ Higher reputation
- ✓ Enhanced value
- ✓ Lower operating costs
- ✓ Recommended rating tools: EDGE (Homes), LEED BD+C (New Construction), LOTUS



Factory

INDUSTRIAL

- ✓ Recognition for commitment to green
- ✓ Evidence of the firm's CSR
- ✓ Increased ROI (return on investment)
- ✓ Open business opportunities by adding value to products
- ✓ Recommended rating tools: LEED BD+C (New Construction)



HEALTHCARE

- ✓ Recognition for commitment to green
- ✓ Evidence of the firm's CSR
- ✓ Increased ROI
- ✓ Recommended rating tools: EDGE (Hospitals), LEED BD+C (Healthcare)

Reduce solid waste

Energy and water saving

Better indoor environment

Reduce carbon emission

HOSPITALITY



- ✓ Lower operating costs & higher value/ lower yields.
- ✓ Attractive to more international travelers by joining global green hotel networks ("Green" Hotels Association, Travelocity Green Hotel Directory, iStayGreen, EcoGreen Hotel)
- ✓ Recommended rating tools: LEED BD+C (Hospitality), EDGE (Hospitality) though often hotel operating guidelines will suffice.



SCHOOL

EDUCATION

- ✓ Better learning environment thanks to: higher air quality and ventilation, daylighting, noise control and higher acoustic performance, thermal comfort
- ✓ Enhanced reputation
- ✓ Recommended rating tools: LOTUS, LEED BD+C (Education), EDGE (Education)

Indochine Engineering was one of the first green building consultants in Vietnam and has been actively contributing to the sustainable construction goals. We are USGBC (US Green Building Council) member since 2007, and VGBC (Vietnam Green Building Council) founding member.



Indochine projects in Vietnam.

- ~ **20** LEED projects,
- 3** LOTUS projects,
- 5** GreenStar Benchmarked projects
- 1** Green Mark project
- 1** DGNB project