



# VIETNAM GREEN BUILDING COUNCIL ANNUAL REPORT 2017/2018

*“Driving toward a sustainable build environment”*





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## NEW TRAINING PROGRAM

We have developed 2 new training courses. We've also covered both LOTUS and LEED in our training.



### PURPOSES

- Define green building & the role of certification system
- Understanding the intent, goals & strategies for credit categories in LOTUS
- Differentiate LOTUS and other rating systems
- Understanding costs generally related with green certification
- Foundational training for LOTUS AP Exam

### AGENDA

- Registration
- Green building and sustainable development
  - Green building definitions
  - Regional trend of green building and recent developments in Vietnam
- Fundamentals of LOTUS rating systems
  - Intent, goals and structure of LOTUS systems
  - Pre-requisites, categories, credits and points in LOTUS
  - Assessment process, certification and renewal
- Tea-break
- Energy: Passive design and building envelope
- Energy: Active systems design
- Lunch
- Energy Modeling
- Water conservation and efficiency in buildings
- Health and comfort in buildings
- Tea-break
- Environmental protection
  - Non-baked materials and rapidly renewable materials
  - Construction waste management
  - Urban heat island effect
  - Stormwater management
- Differentiate LOTUS and LEED
- Identifying costs related to green certification
- Q&A

### INSTRUCTORS



**Vu Hong Phong**  
VGBC  
Project Manager



**Xavier Leulliette**  
VGBC  
Technical Manager

### REGISTRATION

Register online at: [www.vgbc.org.vn](http://www.vgbc.org.vn)  
or email to: [long.dang@vgbc.org.vn](mailto:long.dang@vgbc.org.vn)  
or [education@vgbc.org.vn](mailto:education@vgbc.org.vn)

Hotline: 0966 695 418

### NOTE

Participants are eligible to take the online **LOTUS AP Exam** upon course completion.

**Fee: 1,100,000 VND** per attempt  
(VAT included)

## LOTUS AP EXAM

Individuals have to pass the LOTUS AP Exam to become LOTUS Accredited Professional (LOTUS AP). Study materials, handbook will be provided upon registration.

### Eligibility requirement:

Completion of LOTUS Foundation Training Course

### BENEFITS

- Differentiate yourself from competition
- Demonstrate your commitment to sustainable development
- Assist in achieving 1 point for your LOTUS project
- Be advertised on the VGBC website (Directory of LOTUS APs)
- Free entrance to all VGBC events

### FORMAT

- Computer based, open book exam
- Multiple choice questions (61 questions in 120 minutes)

### PASS MARK

- Minimum 75% of points

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We aim to develop 3 new courses this year (2018). We're also exploring other systems like WELL and HQE to develop new training since these systems have strong focus on health and comfort.

## CONTRIBUTION OF MATERIALS TO GREEN BUILDING

### AGENDA

- ◉ Concept of green building
- ◉ Green building development, market and trend
- ◉ Introduction to LEED and LOTUS;  
Comparison of LEED and LOTUS
- ◉ Contribution of materials to green building systems
- ◉ Basic concepts of sustainable materials in  
green building
- ◉ Typical requirements of materials under major  
green building rating systems
- ◉ Required credits, criteria and calculations within  
Material category of LEED and LOTUS
- ◉ Q&A

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## INTRODUCTION TO GREEN BUILDING

### AGENDA

- ◉ Concept of green building
- ◉ Green building development, market and trend
- ◉ Design, build and operate green building
- ◉ Integrated design process
- ◉ Introduction to LEED and LOTUS;  
Comparison of LEED and LOTUS
- ◉ Q&A

### INSTRUCTORS



**Vu Hong Phong**  
VGBBC  
Project Manager

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During the year, we have also tested training in new places (Da Nang).

We have also offered several free training courses (only registration is required).

In total, as many as 300 professionals participated in VGBC training last year (2017). Most of the professionals got the training either out of need (technical sale, project bidding or project management) or out of curiosity (need for learning). We do not expect them to go out and persuade people to build green yet, but hopefully more and more people will get a better understanding of the costs vs. benefits of green building and have more informed discussion on the topics with other stakeholders.

We also maintain our vision for VGBC to become a training and educational hub for green building and sustainability. To do this, VGBC are always looking for qualified trainers and experts, both local and overseas, who are interested in teaching and training and want to collaborate with VGBC to develop new training programs.

An aerial photograph of a modern urban landscape. In the center, a building features a lush green rooftop garden with a white rectangular structure and several people walking. The surrounding area is filled with other modern buildings and greenery.

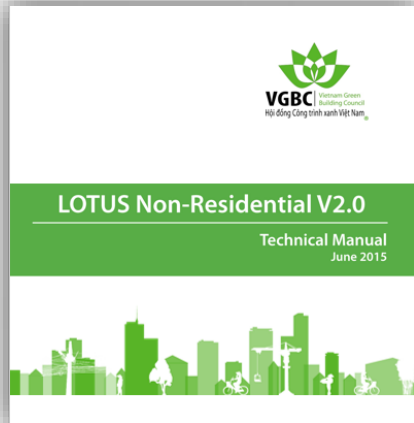
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## LOTUS CERTIFICATION SYSTEM DEVELOPMENT

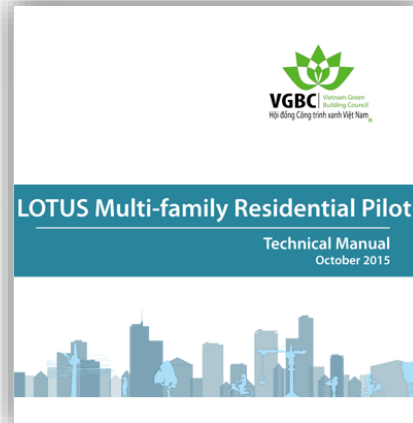


# LOTUS CERTIFICATION SYSTEM

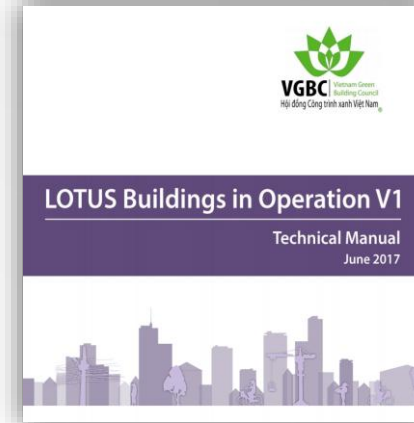
LOTUS Certification system now includes 7 rating systems that cover almost all building types.



LOTUS Non-Residential  
**LOTUS NR**



LOTUS Multi-family Residential  
**LOTUS MFR**



LOTUS Buildings in Operation  
**LOTUS BIO**



**LOTUS Homes**



LOTUS Small Buildings  
**LOTUS SB**



**LOTUS Interiors**



LOTUS Small Interiors  
**LOTUS SI**

# LOTUS PROJECTS IN NUMBERS



020-NR-2.0-NC V-KIST



019-NR-2.0-NC – TD School



001-Interiors-P – Head office of Capital House



005-NR-1.1-NC – Big C Green Square



004-NR-1.1-NC – Pou Chen Green World Kindergarten



003-NR-2.0-MR – Green One UN House

14

**PROJECTS WITH  
FULL CERTIFICATION**  
(Until 02/2018)

28

**PROJECTS  
UNDER PROCESS  
OF CERTIFICATION\***  
(Until 02/2018)

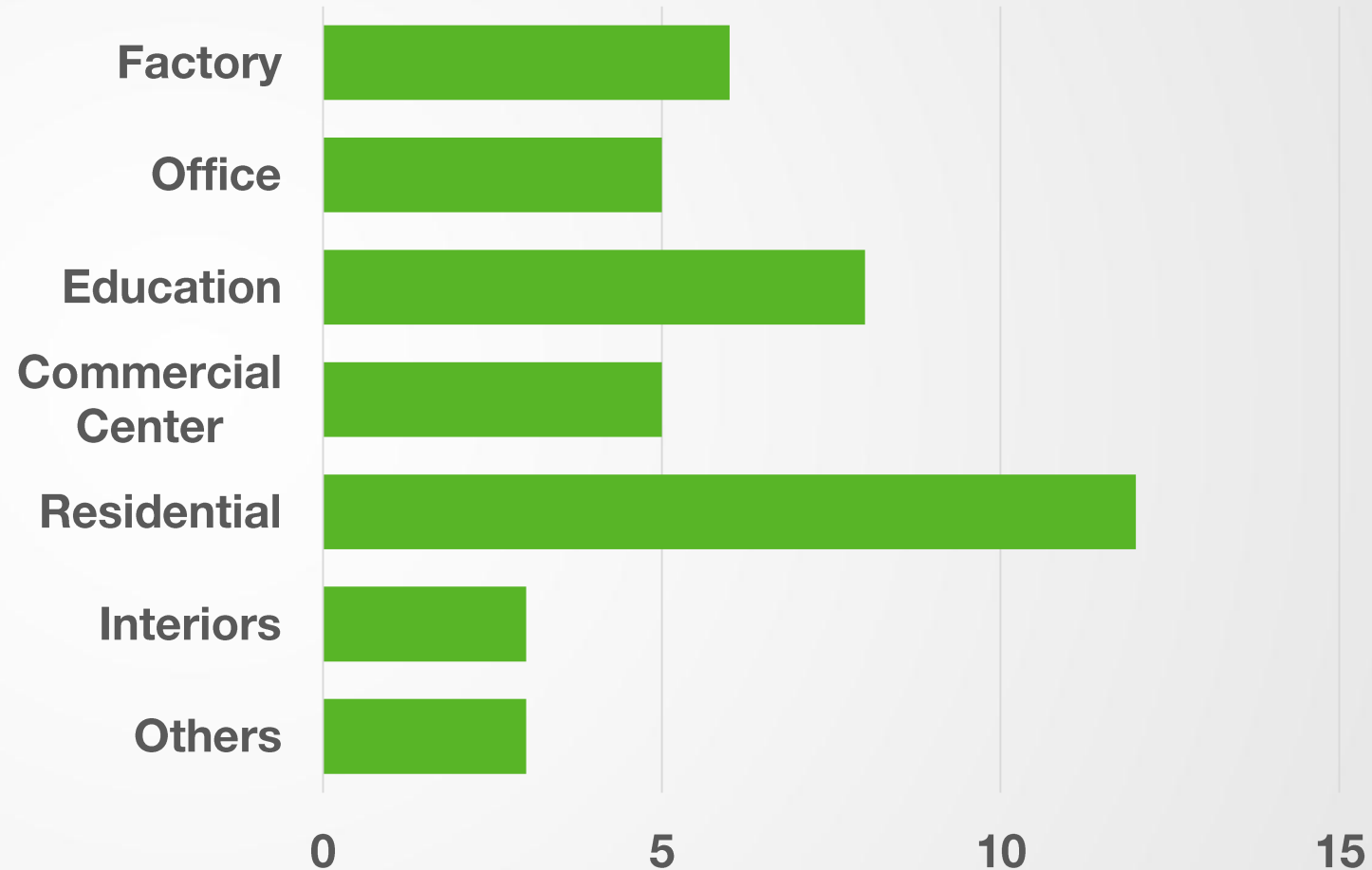
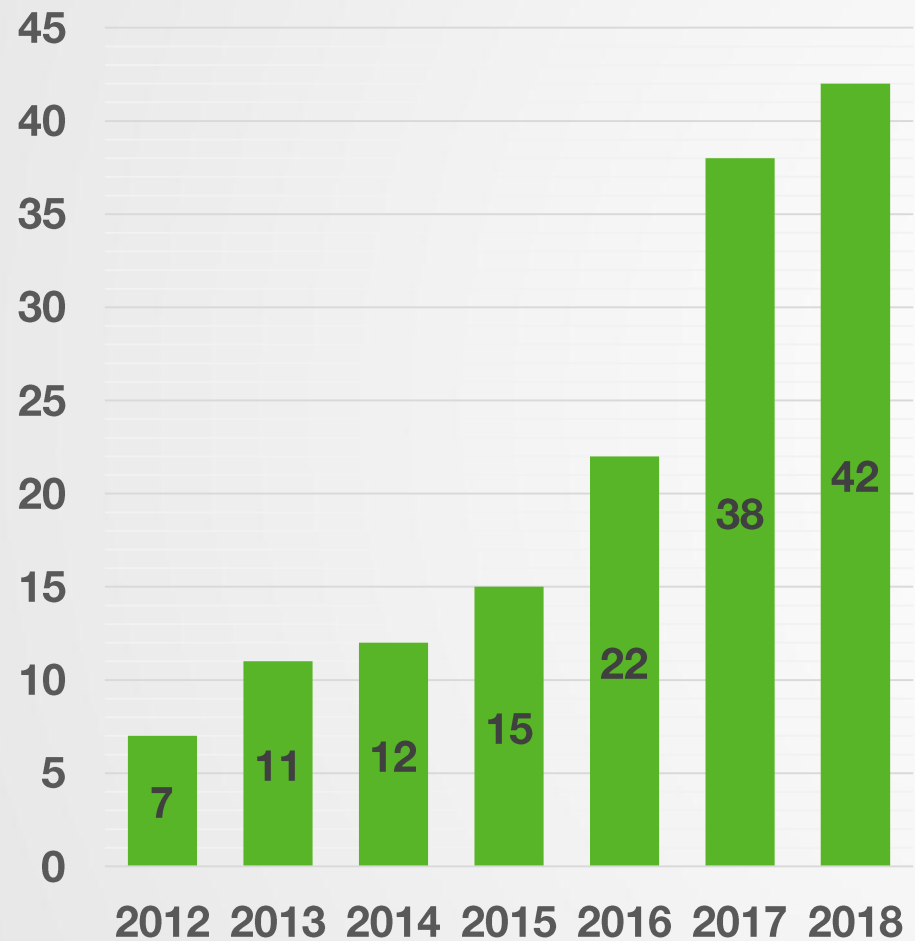
\* Including 5 projects certified at Provisional Stage



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The number of new LOTUS registrations have increased strongly over 2016-2017 period. This is both due to upturn in general construction market and the industry's increase awareness of green building.



In almost every country, government policy is a fundamental factor in efforts to popularize green building practices. However, several attempts to influence or initiate new green building policies either at central level (Ministry of Construction) or local level (departments of construction) have failed.

We don't see breakthrough in the next 1-2 years yet. We also believe the market is not mature enough for the proposed incentives (mostly density bonus) and subject to possible abuse if those incentives are indeed available.

The best thing that can happen is for public agencies to increase the enforcement of the newly updated (2017) Energy Efficiency Building Code (QCVN 09). This is already a challenge.

Because QCVN 09 is used as baseline for energy credits in LOTUS (NR & MFR), so certification under LOTUS also implies compliance with QCVN 09. However, VGBC should do more to increase public awareness of this important building code.



## CONFERENCE: GREEN INDUSTRIAL BUILDINGS

08 December 2017 – Hanoi

Organized by House Link, in partnership with VGBC, ARDOR, VilandCo and ATAD.



## SEMINAR: SUSTAINABLE STRATEGIES FOR HIGH-RISE BUILDINGS

18 October 2017 – HCMC

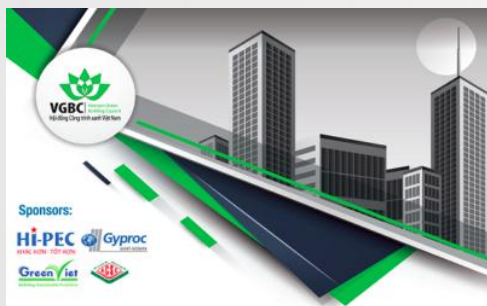
Co-organized by the VGBC, Archetype and KONE.



## SEMINAR “GREEN FACTORY AT LONG HAU INDUSTRIAL PARK”

29 September 2017 – Long An

Long Hau Joint Stock Company and VGBC are co-hosting the workshop “Green Factory in Long Hau Industrial Park” to share knowledge and experience in green building applicable to factories



## SEMINAR: HEALTH AND COMFORT IN RESIDENTIAL DESIGN

19 September 2017 – HCM

Co-organized by the VGBC, Hi-PEC, Saint-Gobain, GreenViet and ACSC.

# APPENDIX: RECENT VGBC ACTIVITES



## LOTUS HOMES HAS BEEN RELEASED

LOTUS Homes is designed to assess all types of single-family dwellings.



## LOTUS SB HAS BEEN RELEASED

LOTUS Small Buildings (LOTUS SB) assesses new constructions and major refurbishments of non-residential buildings with a GFA of less than 2,500 sqm.



## LOTUS INTERIORS HAS BEEN RELEASED

LOTUS Interiors assesses all types of interior fit-out projects.



## LOTUS SI HAS BEEN RELEASED

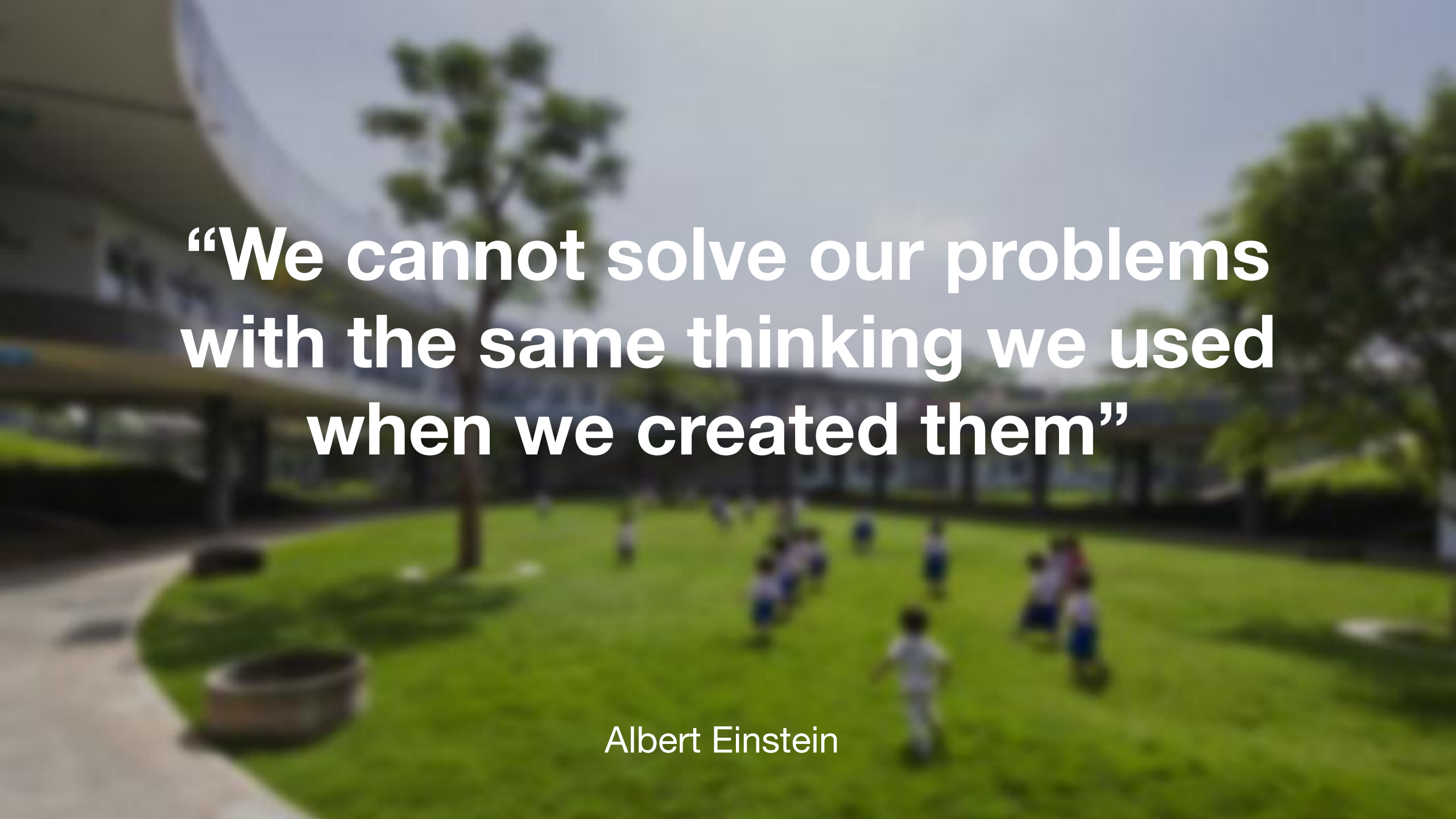
LOTUS Small Interiors can be used for single use or mixed-use small-scale fit-out projects



During the year (2017), we have organized many events and seminars with industrial parks, business platform, etc. to increase public awareness of green building practices. To build on the efforts, we should:

- Develop better marketing materials, tailored to different target groups
- Have more effective follow-up procedure

We'll continue to set up links with other industry platforms who have a potential network, such as newspaper, industrial park, trade groups, intelligence platform, etc. to spread the message to the wider market.



**“We cannot solve our problems  
with the same thinking we used  
when we created them”**

Albert Einstein

**FOR FURTHER INFORMATION, PLEASE CONTACT**

**LOTUS Certification**

[certification@vgbc.vn](mailto:certification@vgbc.vn)

**Education and Training**

[education@vgbc.vn](mailto:education@vgbc.vn)

**General enquiries**

[info@vgbc.vn](mailto:info@vgbc.vn)

or visit: [www.vgbc.vn](http://www.vgbc.vn)

**Telephone:** (+84) 966 695 418

**Address:** 8th floor, Hanoi Creative City Building, 1 Luong Yen, Hai Ba Trung, Ha Noi.