



## **CURRENT STATUS FOR IMPLEMENTING ENERGY EFFICIENCY AND GREEN BUILDING IN VIET NAM**

*Presented by Mr. Le Phu Hung*

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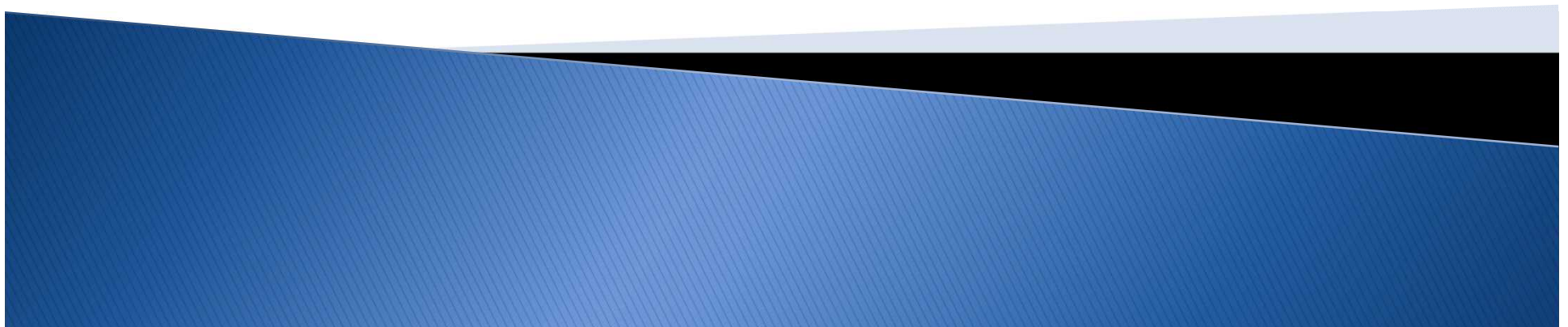
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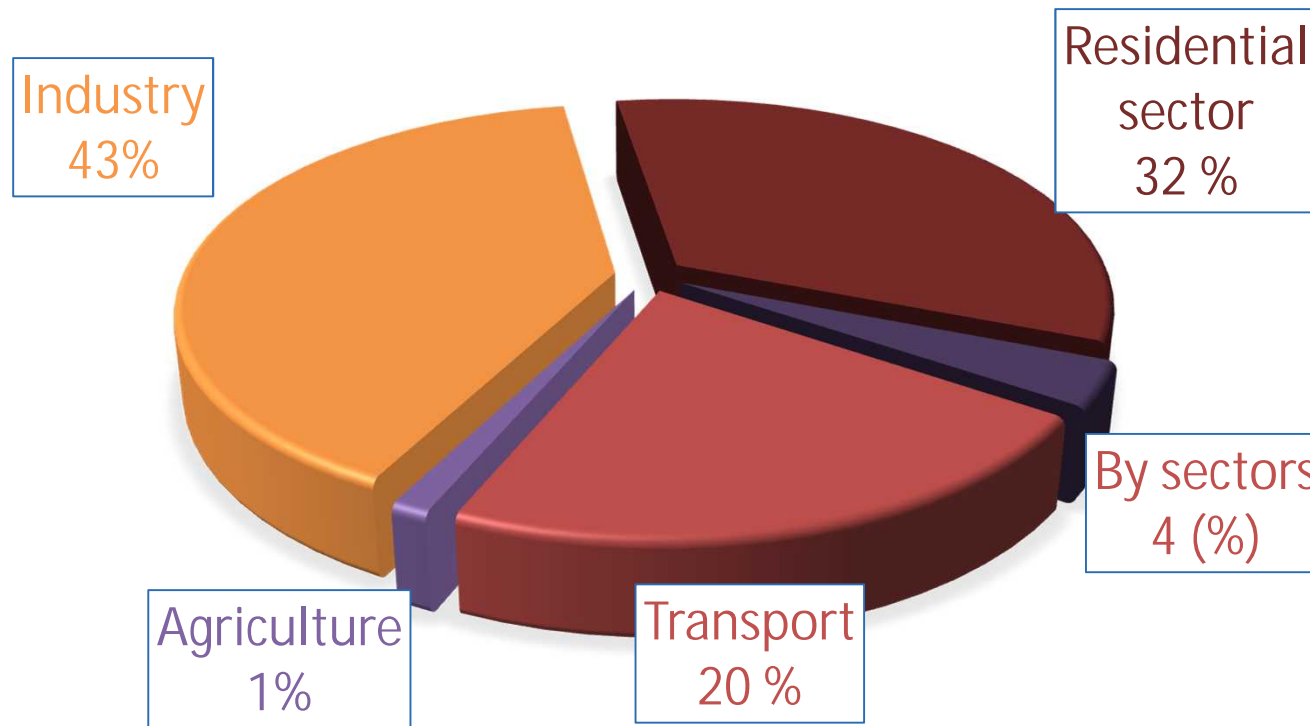
1. Current status on housing development & energy consumption in Viet Nam;
  2. Energy Efficiency and Green Building
    - + Building Code on Energy Efficiency;
    - + Green Building Awards
-

# **Energy consumption and Current status on housing development in Vietnam**



# Energy consumption by sector in Vietnam

- Along with the growth in terms of number of buildings and scale of floor area, the energy consumption in this sector has significant increased year-on-year. In 2016, energy consumption in the residential sector accounted for 32 % of total national energy consumption and estimated about 34 % in 2018.

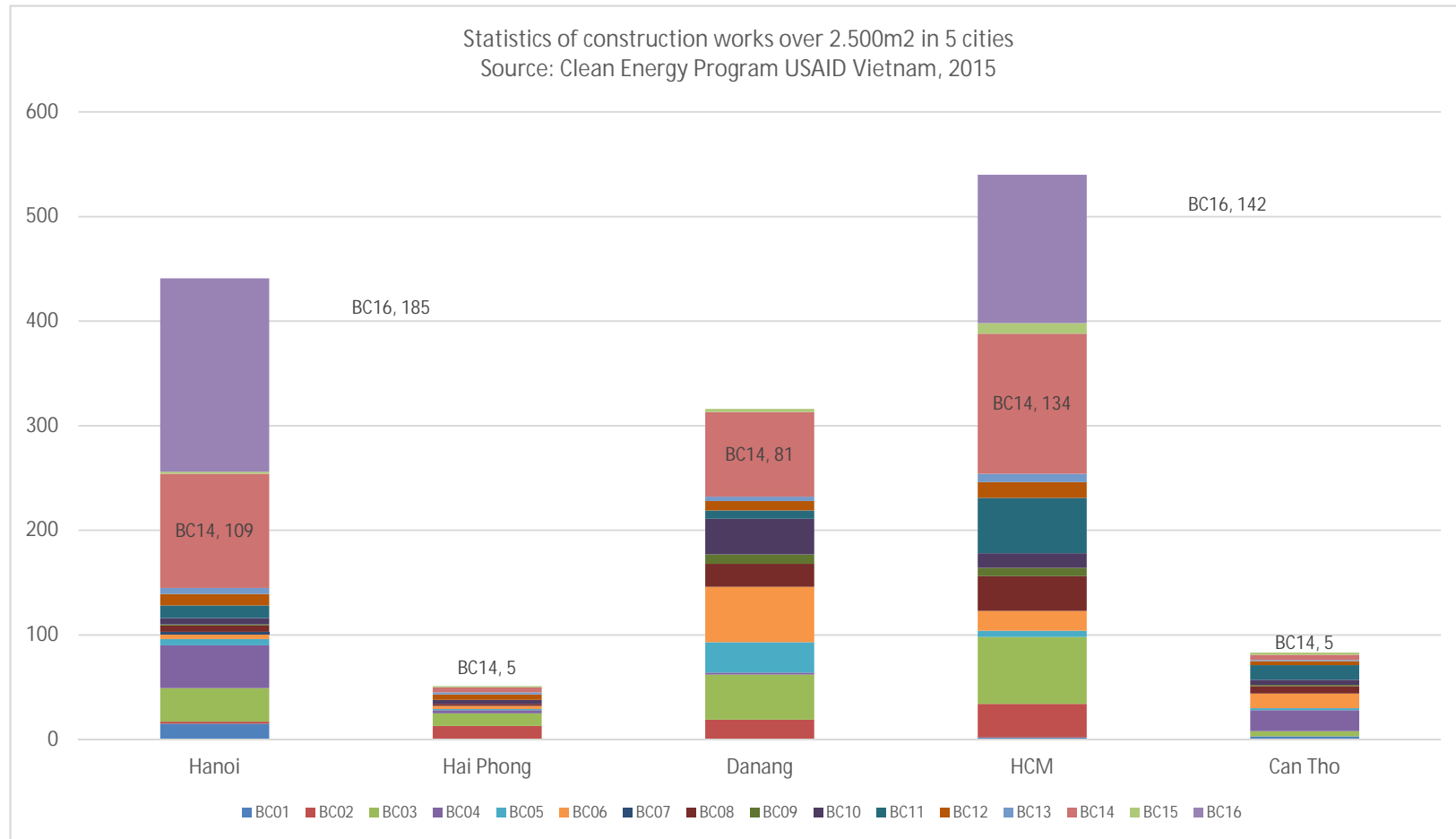


# The growth of buildings

in square meters



# Survey on the current status of energy efficiency buildings in some provinces /cities in Vietnam



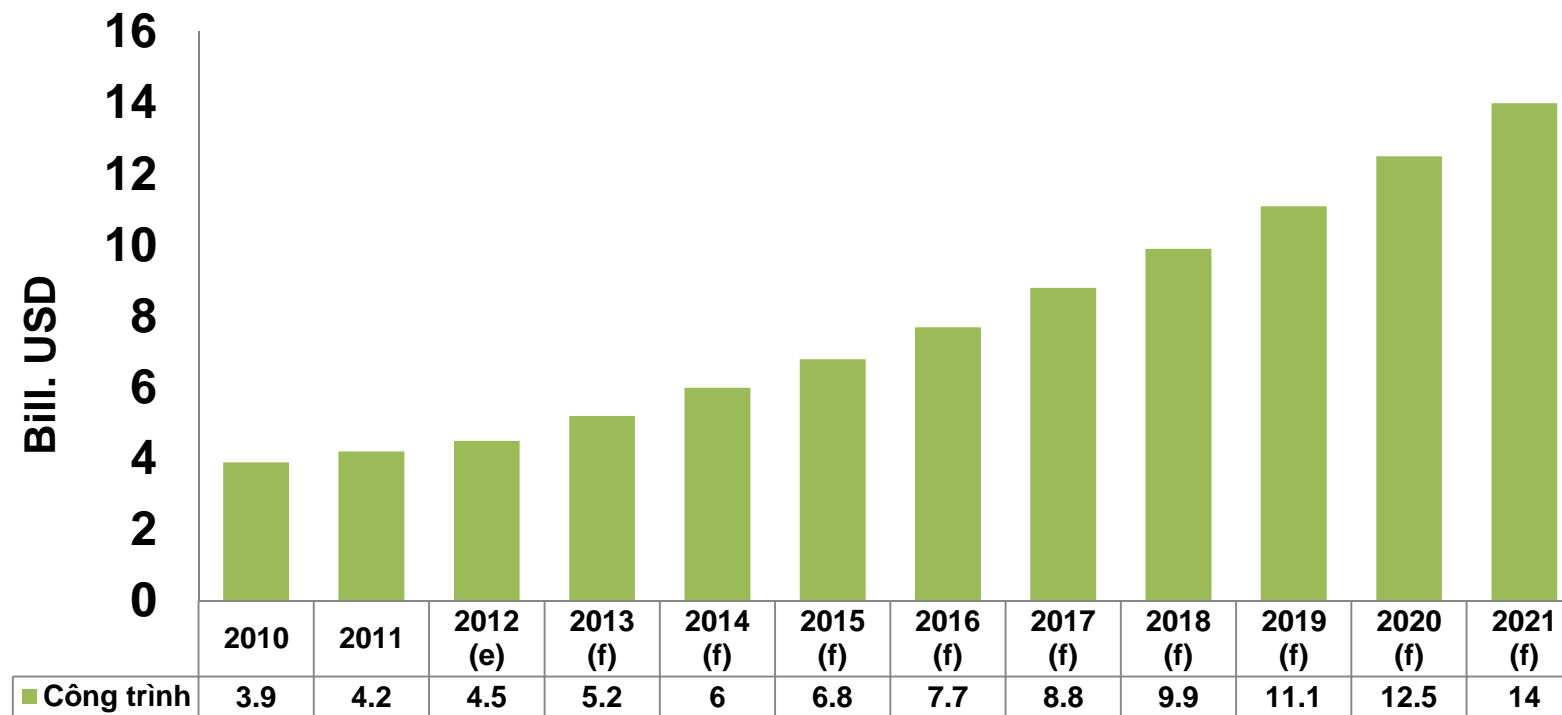
**TOTAL: 1.431 BUILDINGS WITH THEIR FLOOR AREA OVER 2,500 M<sup>2</sup> IN 5 PROVINCES**

**- Hanoi 441 buildings**  
**- HCM: 540 buildings**  
**- Danang: 316 buildings**

**- Can Tho: 83 buildings**  
**- Hai Phong: 51 buildings**

## • The forecast growth of Vietnam Construction Market

- In recent years, the total average area of new building floor has taken up for VN 80-90 million m<sup>2</sup> year. The offices, hotels, commercial centers has been rapidly increasing along with the growth rate of big and medium scale buildings throughout the country, especially in big cities.



Source: Business Monitor International, the Ministry of International Trade Foreign Affairs Canada, Bloomberg, International Energy Agency

- Vietnam's construction market is expected to reach by **US \$ 14 billion** in 2021.

# ENERGY EFFICIENCY- GREEN BUILDING

## POLICY ON ENERGY EFFICIENCY BUILDING

In 2013, Building Code (**QC 09/2013- BXD**) was issued and enforced in Viet Nam, the code are for building envelope, ventilation and air conditioning, lighting, escalators and elevators, electric power consumption and service water heating system.

Last year 2017, the **QC 09/2013- BXD** was revised with higher performances for ventilation and air conditioning, lighting and water heating system such as COP (AC, Chile, heat pump, heat water system and lighting system), the revised version, namely, **QC 09/2017- BXD**.



# **ENERGY EFFICIENCY- GREEN BUILDING**

## **POLICY ON GREEN BUILDING**

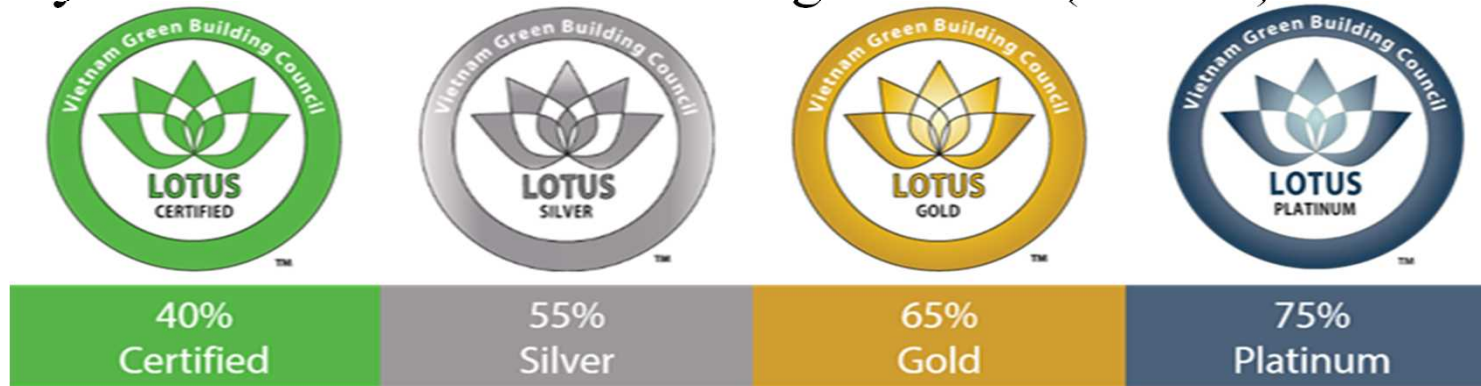
Now, the policy is understudying based on criterias:

1. Efficiency in Design and Structure;
2. Energy efficiency of building;
3. Water effect;
4. Embodied Energy of Materials;
5. Quality of the indoor environment.

# ENERGY EFFICIENCY - GREEN BUILDING

## GREEN BUILDING AWARDS

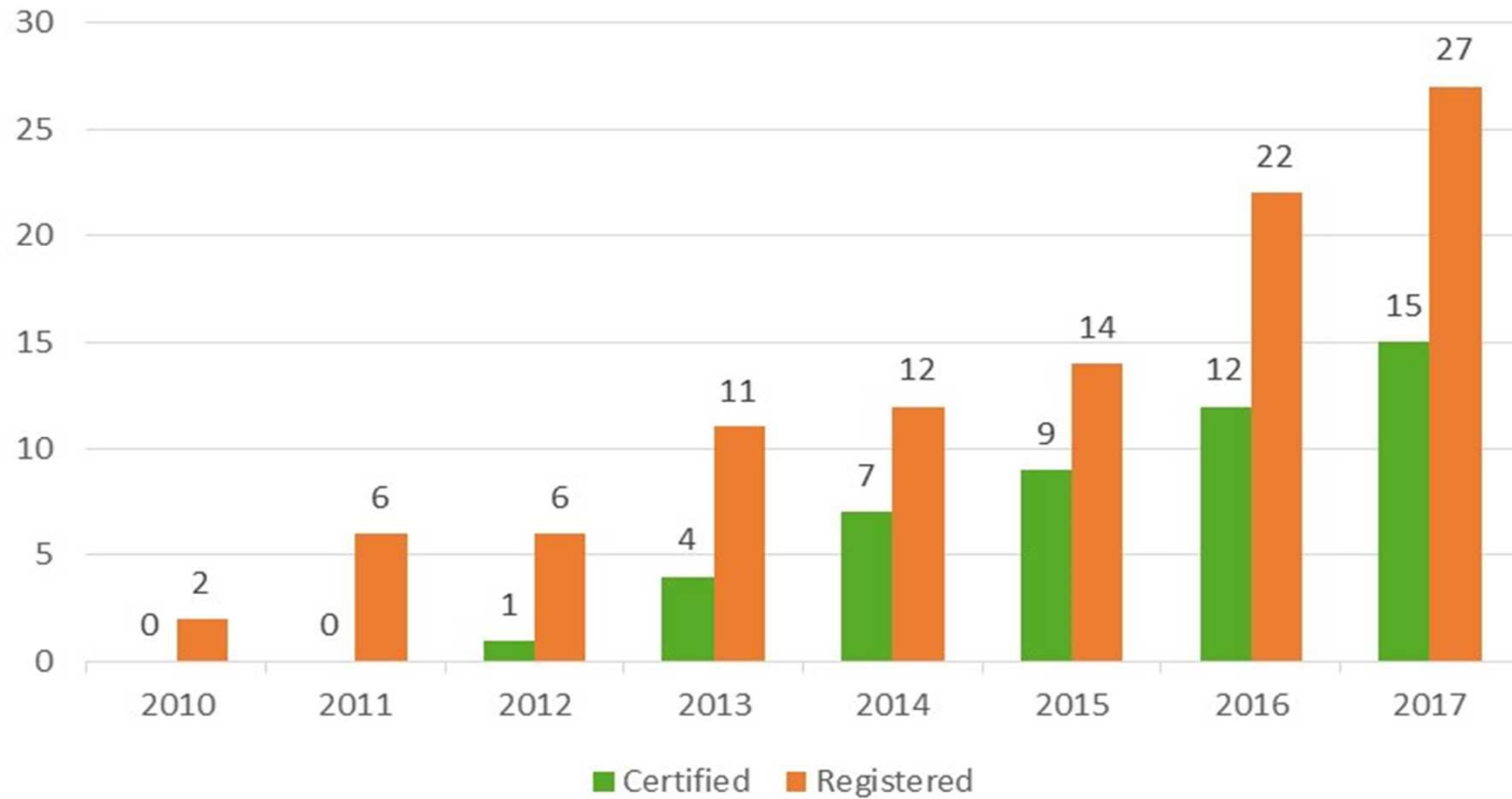
In 2010, The LOTUS was introduced as a voluntary rating tool by the Vietnam Green Building Council (VGBC)



The aim of LOTUS is to guide the local construction industry towards energy efficiency, and to promote environmentally friendly practices. The rating system applies to three building types namely LOTUS Non-Residential, LOTUS Residential and LOTUS Buildings in Operation to accommodate for various building types.

# ENERGY EFFICIENCY - GREEN BUILDING

## LOTUS CERTIFICATES IN VIET NAM



# FUTURE PLANS

1. ....
2. ...

# Thank You!



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