



T G B I

# Green Building Rating System Around the World





The Association of Siamese Architects



Engineering Institute of Thailand

under the Royal Patronage of His Majesty the King

## Background



The Association of  
Siamese Architects



MOU March 2009



Engineering Institute of  
Thailand



(registered 7 September 2009)

# Thai Green Building Foundation

# Thai Green Building Foundation's Objectives

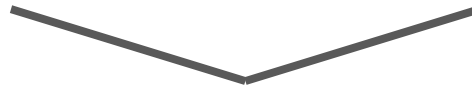


- 
- 1.** Promote research and development in architectural and engineering professional standards for the design, construction and building management of green building
  - 2.** Facilitate architectural and engineering practices associated with green building development
  - 3.** Offer supporting facilities and places for green building activities such as training, workshops, seminars or conferences
  - 4.** Collaborate with other organization for public benefits
  - 5.** Not engage in any form of political activities
-



## **Thai Green Building Foundation**

Non-profit organization



## **Thai Green Building** **Institute**

Work under Thai Green Building Foundation



# Thai Green Building Institute

# TGBI

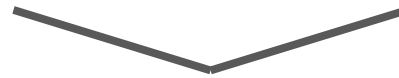
- Promote & Develop green building professional knowledge and skills
- Provide green building solutions to project's owners and developers
- Develop Thai's Rating of Energy and Environmental Sustainability (TREES)

## Sources of Revenue

<b>Green Building Rating System Administration</b>	<b>Thai Green building Expo</b>	<b>Training Workshops Seminars Conferences</b>	<b>Donation</b>
--	---	--	-----------------

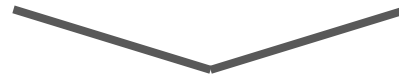


## **Thai Green Building Institute TGBI**



### **Technical Board of Committees**

responsible for the development, implementation of, and revisions to...



### **Thai's Rating of Energy and Environmental Sustainability (TREES) Rating system**

<b>Project Registration</b>	<b>Technical Review</b>	<b>Verification</b>	<b>Award</b>
---------------------------------	-----------------------------	---------------------	--------------

## Thai's Rating of Energy and Environmental Sustainability (TREES)



### **TREES or Thai's Rating of Energy and Environmental Sustainability**

is a green building rating system developed by Thai Green Building Institute which specially designed for green buildings with Thai context.

**TREES – NC**  
Reference Guide  
Version 1.1

**Thai's Rating of  
Energy and Environmental  
Sustainability**

for New Construction and Major Renovation

คู่มือสำหรับเกณฑ์การประเมิน  
ความยั่งยืนทาง  
พลังงานและสิ่งแวดล้อมไทย  
สำหรับการก่อสร้างและปรับปรุงโครงการใหม่



จัดทำโดย  
สถาบันอาคารเขียวไทย  
Thai Green Building Institute (TGBI)



**TREES** Rating systems address following types and scopes of the projects:

## **Existing Rating systems**

### **TREES – NC**

aims for certifying new or major renovated projects

### **TREES - Pre NC**

aims for certifying new or major renovated projects in the design phase in order to get some benefits such as marketing or F.A.R bonus.

---

## **Upcoming Rating system**

### ***TREES – CS***

*aims for certifying building structure, envelope and HVAC system of new or major renovated projects*

### ***TREES – EB***

*aims for certifying existing building projects*

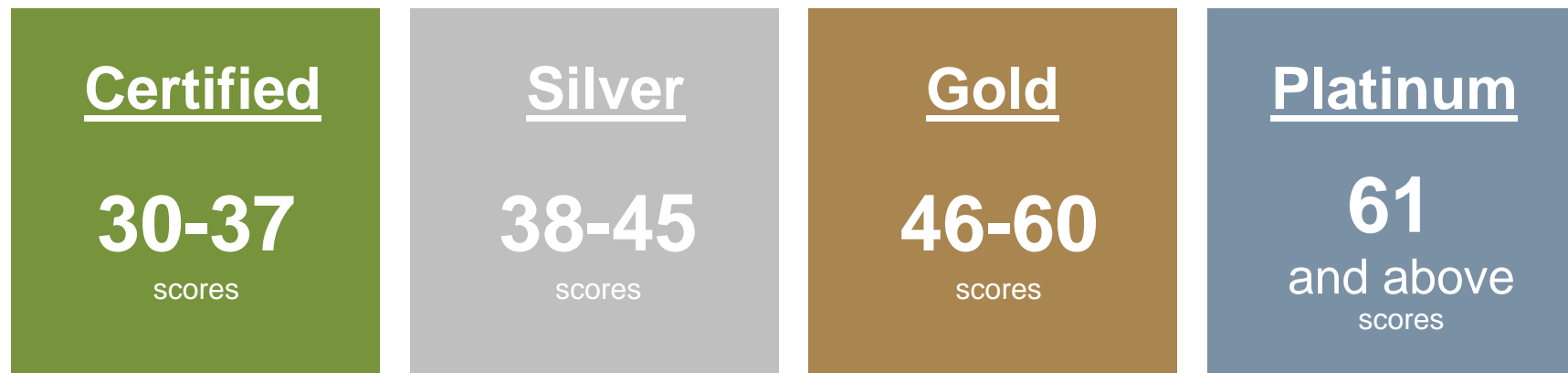
# TREES-NC for New Building or Major Renovation / Level of Certification



Buildings are awarded points based on the extent various sustainable strategies are achieved.

The more points awarded the higher the level of certification achieved from...

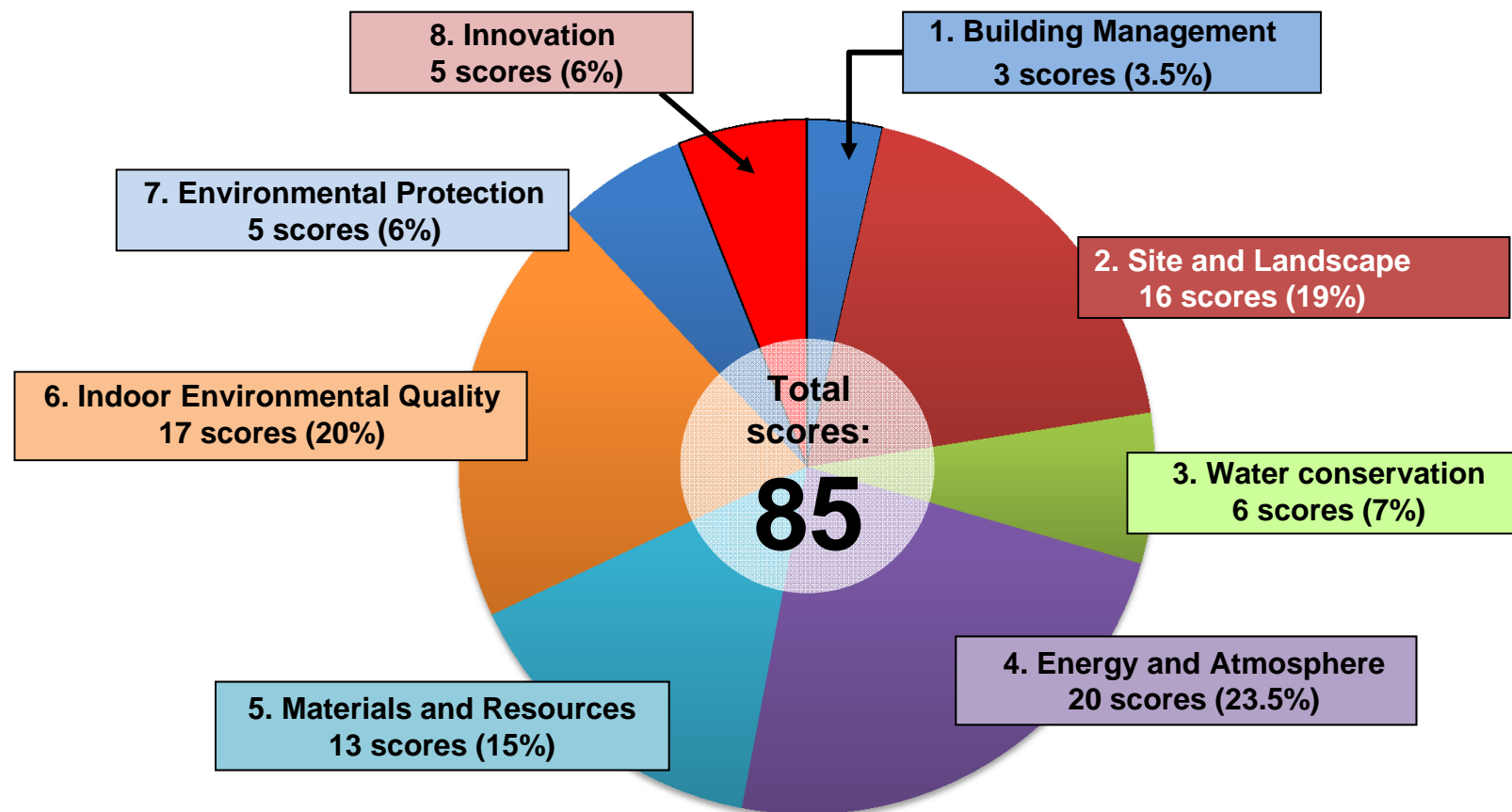
**Certified, Silver, Gold, to Platinum**



# TREES-NC for New Building or Major Renovation / Credit Categories



Point-base system and categorized in **8** areas:



# BENEFITS OF TREES CERTIFICATION



## ✦Benefits from the Government

FAR Bonus (TREES Pre –NC)

### **TREES –Pre-New Construction** – apply for F.A.R. Bonus (Bangkok City Plan 2012)

Ceritfication Level	Points (max 62)	F.A.R. Bonus
1 <sup>st</sup> Level	22-27 Points	5%
2 <sup>nd</sup> Level	28-32 Points	10%
3 <sup>rd</sup> Level	33-44 Points	15%
4 <sup>th</sup> Level	45-62 Points	20%

## ✦Benefits from Ministry of Energy

Ministry of Energy has set TREES rating system as one driven strategy of energy reduction policy by the government

## TREES Project Status in Thailand

---

Awarded	10 projects
Reviewing	14 projects
Registered	66 projects

---

TREES - Associate 388 People

---

3 March 2016

# TREES Participant List



## Platinum

2 projects

**60 Pansa Ratchasuda Somphop,  
Jitlada School**





# TREES Participant List



## Gold

5 projects

**TOYOTA** Pithan Sadao



**TOYOTA** Thai Yen,  
Nakhon Ratchasima



**ITMX**



**CP ALL Academy**



**TOYOTA** Petra



# TREES Participant List



Silver

1 project

**IDEO Mobi Sathorn Condominium**





## TREES Participant List



Certified

2 projects

**TOYOTA** Roiet,  
Phonthong



**CPF** Bangnam-prew



## ACTIVITIES: TREES SEMINARS & FIELD TRIPS

TGBI focuses on promoting TREES and green building practices for Thai practitioners by visiting the buildings and testing program (TREES-A).





## ACTIVITIES: THAI GREEN BUILDING EXPO & CONFERENCE



Thai Green Building Expo and Conference was arranged at BITEC with 500 participants. The main aims of this conference is to enhance comprehension of TREES Rating System process and criteria.



## ACTIVITIES: TGBI Green trip: Tokyo, Japan (12-18 Feb 2015)



TGBI visited green building at Tokyo, Japan. Some the buildings are

- Takenaka Corporation Tokyo Main Office
- Obayashi Technical Research Institute Main Building
- Sony City Osaka
- Keio University Hiyoshi Campus
- Sunny Hills Japan

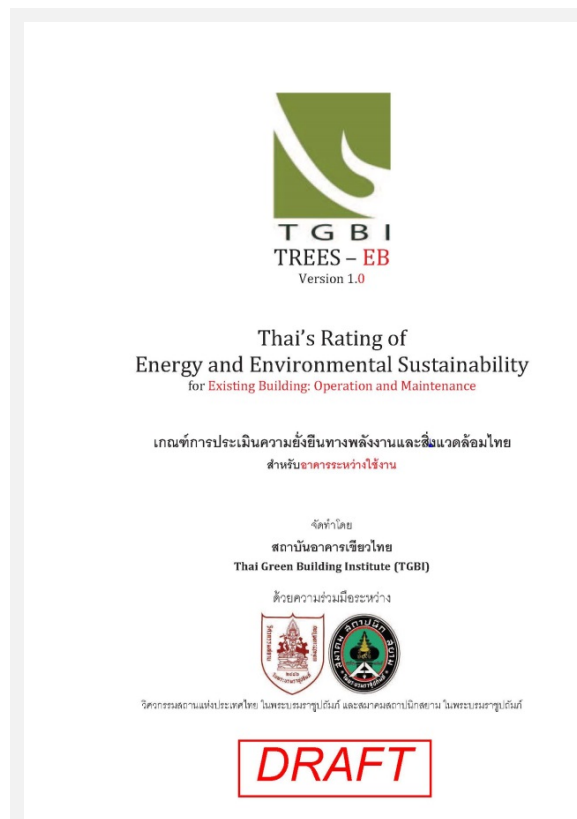




# ROAD MAP (NEXT ACTIONS)



- Develop TREES-EB for Existing Building (Finish end of 2016)



- Develop TREES-CS for Core and Shell scheme (2016)

# Thank you



<http://www.tgbi.or.th>