



Green Hotel

The Trend in Sustainable Tourism

21 August 2017





Sustainable tourism is an emerging trend around the globe

Tourists are more conscious of their environment impacts

Increasing Demand for Sustainable Tourism



43%
Consider the ethical or environmental footprint of their holiday

Blue & Green Tomorrow's Sustainable Tourism 2014



58%
prefer staying in green hotels during travel



39%
Willing to pay extra **US\$10 or more** per night for staying in a green hotel

Agoda.com
Earth Day Survey 2014



How to improve your
customer satisfaction while
saving the operating costs?



HKGBC
BEAM Plus
綠建環評
既有建築 EB

BEAM Plus Existing Buildings V2.0
Green Building Assessment Tool
brings you benefits

**Save
Cost**

**Optimise
Guest
Experience**

**Demonstrate
your
commitment to
sustainability**

BEAM Plus Existing Buildings V2.0



How do we assess your hotel building?



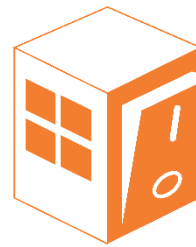
Site Aspects
(SA)



Management
(MAN)



Materials
and Waste
Aspects
(MWA)



Energy Use
(EU)



Water Use
(WU)



Indoor
Environmental
Quality
(IEQ)



Innovations
and
Additions
(IA)

A third-party certification for your hotel building



Comprehensive Scheme

Assessment of **ALL aspects**
Target: Buildings <20 years old



Selective Scheme

Individual Aspect Assessment
Target: Buildings >20 years old





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既有建築 EB



Selective Scheme

Individual Aspect Assessment

Target: Buildings >20 years old



How do we assess your hotel building?



Green Purchasing Plan

Endorsed green purchasing policy and reporting

Building Records

- Building, structural plans approved by Building Authority
 - Plumbing drawings
 - Fire services installation plans
 - Layout plans for utilities

Building and Site Operation and Maintenance

- Building maintenance
- External areas and facilities

Building Services Operation and Maintenance

Air-conditioning system, lift/escalator, electrical, lighting, plumbing and drainage

Renovation Management Plan

Renovation Management Plan Implementation

Green Cleaning

Green cleaning procedures and practices



How do we assess your hotel building?

GREEN MANAGEMENT PRACTICES

ISO 14001

Environmental
Management System

**OHSAS
18001**

Occupational Health
and Safety System

ISO 50001

Energy Management
System

ISO 9001

Quality Management
System



How do we assess your hotel building?

Recognition and Appreciation Awarded from Other Organisations

E.g.



EarthCheck Certification



Green Building Award



Hong Kong Awards for Environmental Excellence - Hotels and Recreational Clubs

Green Globe Certification

CLP Green^{PLUS} Award

ENERGY USE and WATER USE

Significant amount of energy and water consumption in hotel buildings



“
High return in energy and water savings
”





ENERGY USE

Energy analysis

- Sub-metering for chiller plants, lighting and lifts
 - Energy consumption record
 - Conduct energy and carbon audit

Energy efficient practices and measures

- Use of water-cooled chiller plants
- Use of CO2 sensors to regular fresh air flow
- Lighting with motion sensor control

Energy Benchmarking

EMSD Benchmarking tool
HKGBC's BESTOF



Building Intelligence

Energy Optimization Solution to HVAC System

- Usage on demand;
- No excessive use of Energy;
- Reduction of Human Error in Operation



Cooling Tower Optimization



Chilled Water Pump Control



EOS Control Algorithms



Energy Monitoring



PowerBox Online energy management system

- Real time Evaluation
- Anytime Anywhere



Lee Garden One Offices

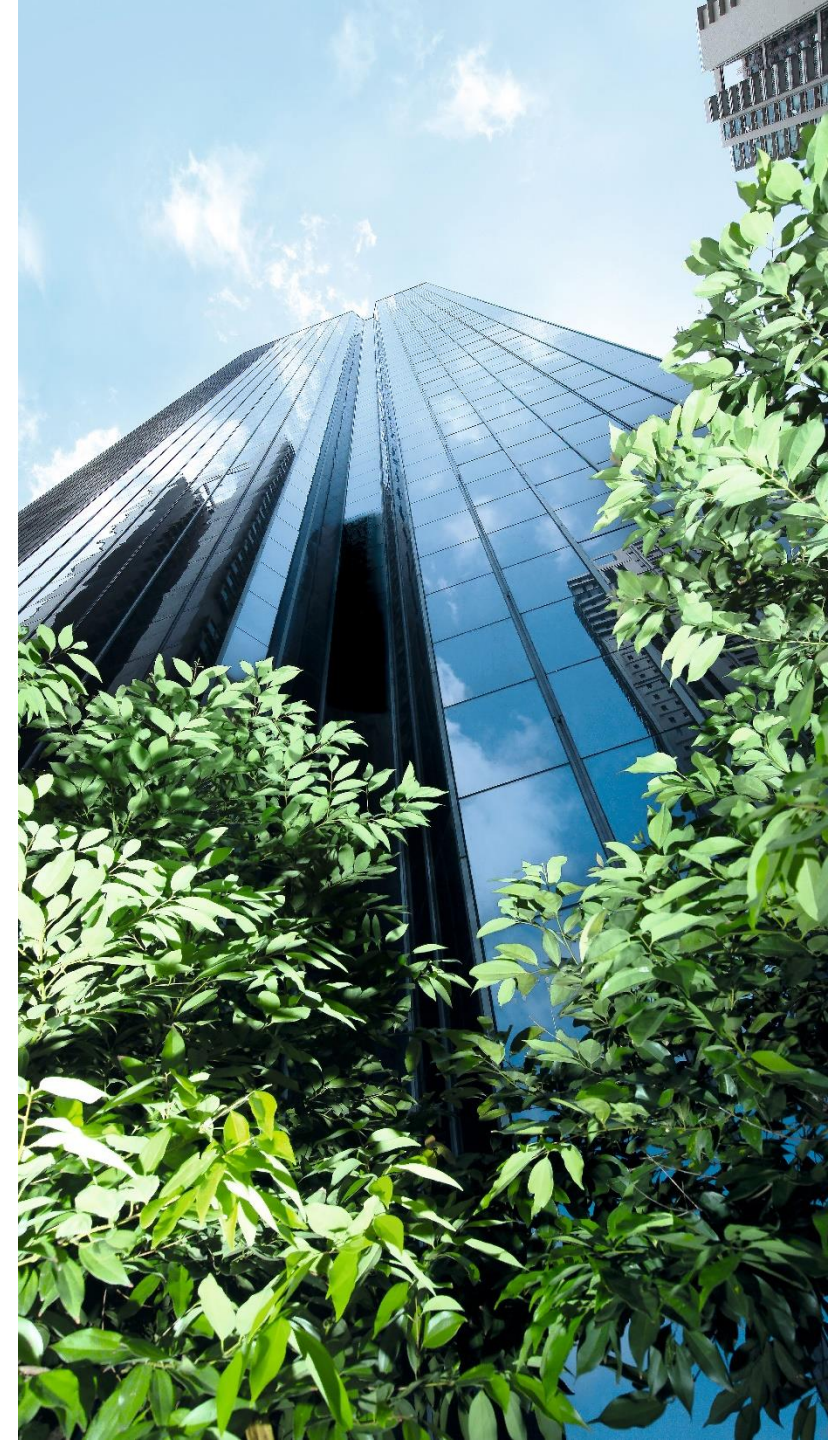
39.2% savings
in annual energy
consumption

(<http://greenbuilding.hkgbc.org.hk/projects/view/69>)

Sunlight Tower

>30% savings
in energy consumption

(<https://www.youtube.com/watch?v=uQFPu7AK0jg&t=2s>)





WATER USE

- **Water efficient devices:**
Water-saving faucets with sensors,
Water-saving showers for bathing etc.
- **Cooling tower water**
- **Water saving performance**
- **Water quality survey**
Quality Water Supply Schemes for Buildings
- **Water metering**
Irrigation, indoor plumbing fixtures,
cooling towers, water features
- **Water leakage monitoring**
- **Water audit**



INDOOR ENVIRONMENTAL QUALITY

- **Ventilation**
Minimum ventilation performance
Localised ventilation
- **Thermal comfort**
- **Hygiene**
Biological contamination
Waste disposal facilities
Control of environmental tobacco smoke
- **Acoustics**
Background noise
Room acoustics
Noise isolation
vibration



A third-party certification for your hotel building



Selective Scheme



70% - **Excellent**



60% - **Very Good**



50% - **Good**



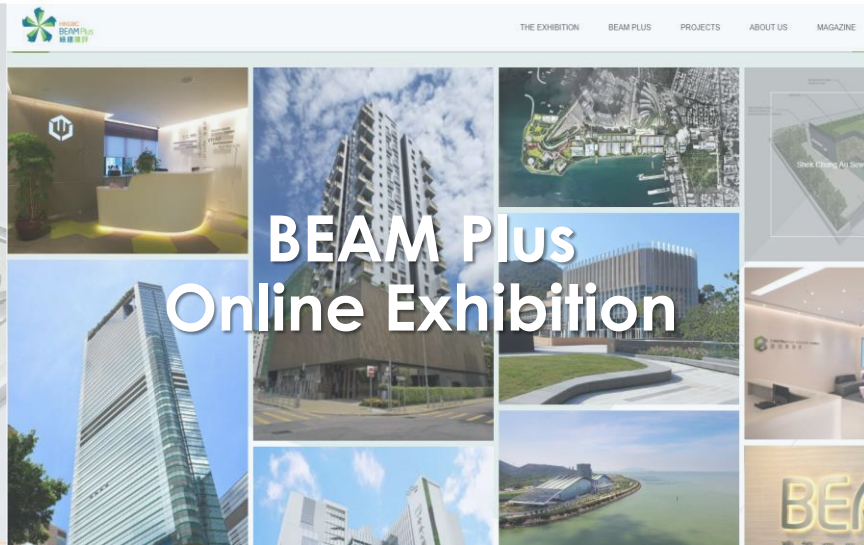
40% - **Satisfactory**

Know more about BEAM Plus EB V2.0:
https://www.hkgbc.org.hk/eng/EB_Intro.aspx

Promotion of your BEAM Plus project



BEAM Plus
Certification Plaque



BEAM Plus
Online Exhibition



BEAM Plus
Online Magazine



Climate Change and
My Smart City
Exhibition at ZCB



Interactive
Green Building Map



BEAM Plus Project
Certification Ceremony

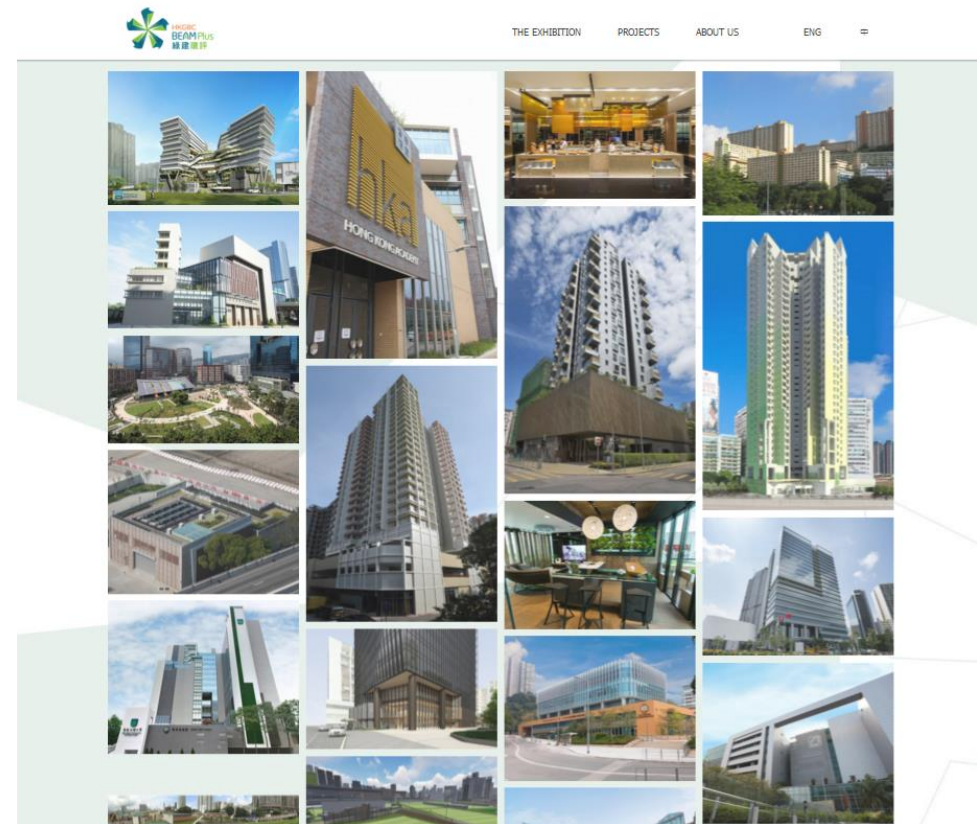
BEAM Plus Online Exhibition

<http://greenbuilding.hkgbc.org.hk/>

Acknowledge your effort and
raise public awareness of green buildings!

72

projects NOW
participated in
the BEAM Plus Online Exhibition



Offer a sustainable
travel option for your
guests!

