



# Developing a Green Building Rating System for the Philippines

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## Water Resources Summit

“Managing Water Resources for Sustainability and Equity in the Santa Rosa Watershed”

Development Academy of the Philippines

March 11, 2009

**CHRISTOPHER CRUZ DE LA CRUZ**

Chair, Philippine Green Building Council

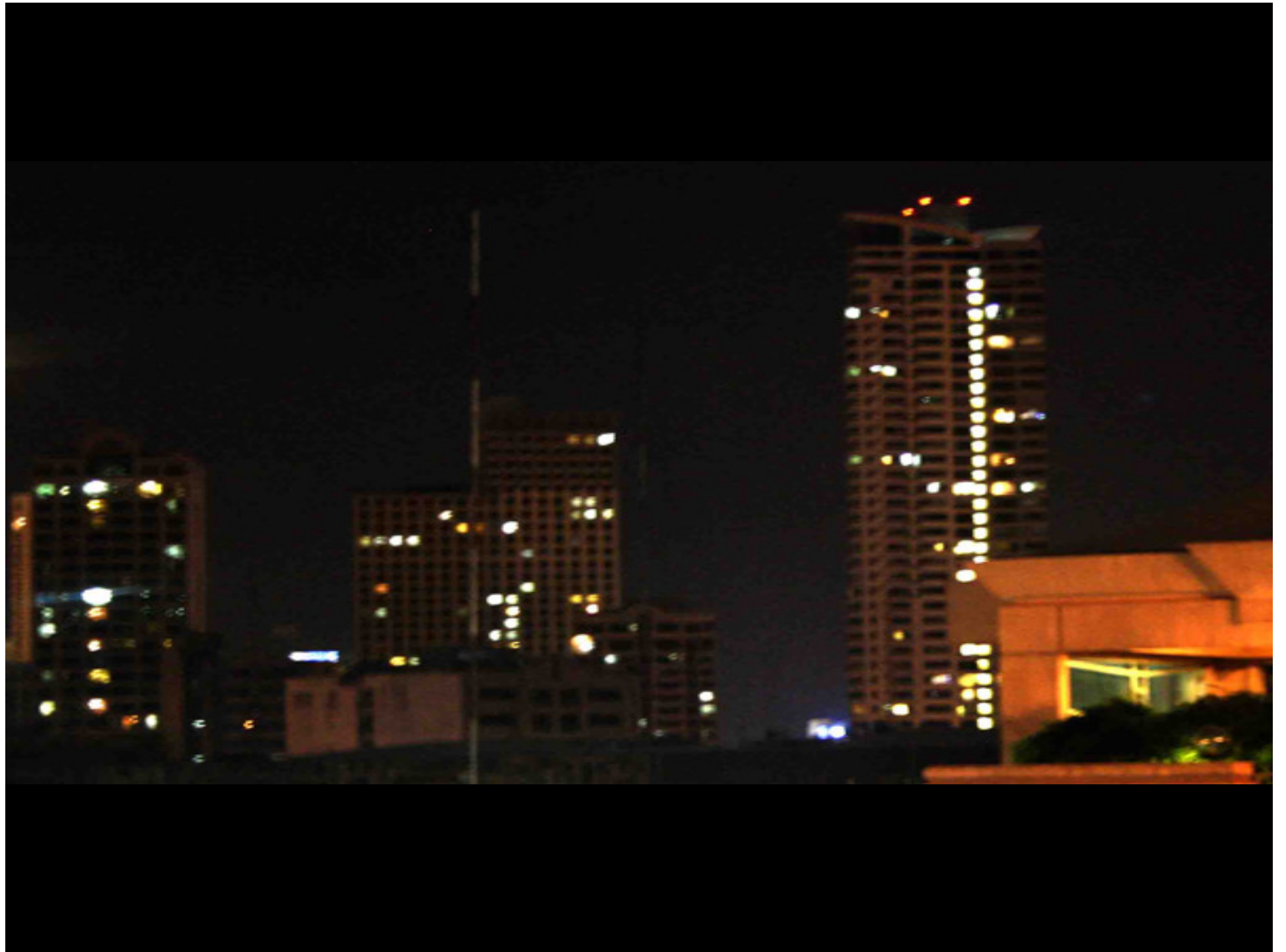
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"You must be the change you wish to see in the world."

*Mahatma Gandhi*



## Philippine Green Building Council

- A national non-profit organization;
- A coalition of leaders;
- We share best practices in building design;
- The non-partisan venue for the development of a nationally accepted and recognized green building rating system.





# Membership



*Manosa and Company*



## What is Green Building?

Green building is a structure that is designed, built, renovated, operated, or reused in an ecological and resource-efficient manner.

## Focus Areas of Green Building

- Sustainable Site Development,
- Improvement of Indoor Air Quality,
- Water Management,
- Energy Management,
- Solid Waste Management,
- Green Materials,
- Preservation of Cultural Contexts.

# Benefits

- Reduces the negative impacts of natural resource consumption;
- Enhance occupant's comfort and health;
- Competitive first costs;
- Marketing advantages;
- Projection of a positive public image;
- Improves the bottom line (profits);
- Reduce liability;
- Reduces tipping and hauling costs;
- Minimize strain on local infrastructures and improve quality of life.

# Issues and Challenges



- Lack of information on Green Building in government;
- Need to increase competitive advantage of the building industry;
- Energy in the Philippines is one of the most expensive in the region;
- Need to reduce cost in implementing green building strategies and programs;
- Too many laws but lacking in policy support for green building– Where do we start?

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# We have enough laws already...

- RA 9275 Clean Water Act;
- RA 9003 Solid Waste Management Act
- RA 8749 Clean Air Act;
- RA 9367 Biofuels Act;
- RA 7586: National Integrated Protected Areas System (NIPAS) Act;
- Etc, etc, etc.

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# Why do we need a green building rating system?

- A great tool to exhibit environmental stewardship.
- It enables the public to easily identify green buildings;
- A third party certification, monitoring and verification system enables all market players to benchmark in a single system, thus leveling the playing field.

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# Green Building Rating Systems

BREEAM (Building Research Establishment's Environmental Assessment Method) U.K.

- Long track record in the UK;
- Not available to the publicly available for purchase, only through licensed assessors;
- Based on quantifiable sustainable design achievements.



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# Green Building Rating Systems

## CASBEE (Comprehensive Assessment System for Building Environmental Efficiency) Japan

- Structured to award high assessments to superior buildings;
- Simple;
- Should be applicable to buildings in a wide range of applications;
- To suit issues that affect Japan and Asia.



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# Green Building Rating Systems

## SBTool (Sustainable Building Tool) Canada

- Flexible – may be used in different localities;
- Requires greater technical expertise;

## Green Globes - Canada, U.S.

- Sustainable design and construction information is submitted on-line for third party verification,
- Requires a Green Building Initiative-approved and Green Globes trained professional.



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# Green Building Rating Systems

## LEED (Leadership in Energy and Environmental Design) U.S.

- Dominant system in the U.S. market;
- Assessors' accreditation required;
- Accepted by the U.S. Federal and Local Governments;

## Other significant Green Building Rating Systems

- Cradle to Cradle – U.S.
- Green Star – Australia
- Green Mark – Singapore



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# Green Building Rating Systems

?????? - Philippines



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# **Building for Ecologically Responsive Design Excellence (BERDE Program)**

A priority program of the PHILGBC



- **It shall be consensus driven;**
- **Multisectoral;**
- **Multidisciplinary;**
- **Government supported;**
- **Industry backed!**

# Creating BERDE

PHILGBC  
Board of Trustees

Sets the general direction of the Council;  
Final approval and implementation of BERDE.



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# Creating BERDE

BERDE BOARD

Serves as the Steering Committee of the BERDE Program;  
Deliberates on the merits of the rating system;  
Approves the Balloting Procedure;  
Endorses the BERDE release to the PHILGBC Board of Trustees for approval and recommendation.



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# Creating BERDE

BERDE  
Development  
Team

Serves as the Technical Working  
Group of BERDE;  
Conducts research and  
development work.



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# Creating BERDE

Special  
Committees

Shall address specific BERDE  
issues;  
Serves as technical advisers of  
BERDE-DT



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# Creating BERDE

PHILGBC  
General  
Membership

Contributes to the rating system  
by providing best practices,  
position papers, experience and  
insight.



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# Moving Forward

- Stakeholder Participation is CRITICAL;
- Government Support;
- Building Consensus;
- Education Programs;
- Public and Private Incentive Schemes;
- Harmonize policies and regulations on green building issues to ease regulatory roadblocks;
- Enforcement of laws;
- Promote the use of rating systems to properly document, measure and verify green credentials.



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Maraming Salamat Po!