



SESSION 5

PHILGBC Certification Tools

5:15 p.m.



PHILGBC Certification Program

Mr. John Reniel S. Englis
Technical Staff, PHILGBC



PHILGBC Certification Programs



John Reniel S. Englis REE, CBP, CBA, ANZ/PH AP, H+W AP
Technical Staff
Philippine Green Building Council

Building Green Conference 2023

28 September 2023

Modala Beach Resort, Panglao, Bohol



One/NEO
Bonifacio Global City, Taguig City
BERDE 5-Star certified
ANZ/PH Net Zero Energy

BERDE

BERDEonline.org

**GREEN
BUILDING/PH**

GreenBuildingPH.org

ANZ/PH

ANZPH.org

**PHILGBC
HEALTH+
WELL-BEING**

HealthPH.org



Filinvest City
Alabang, Muntinlupa
BERDE 3-Stars certified

Why use green building rating tools?



Guidance



Transparency

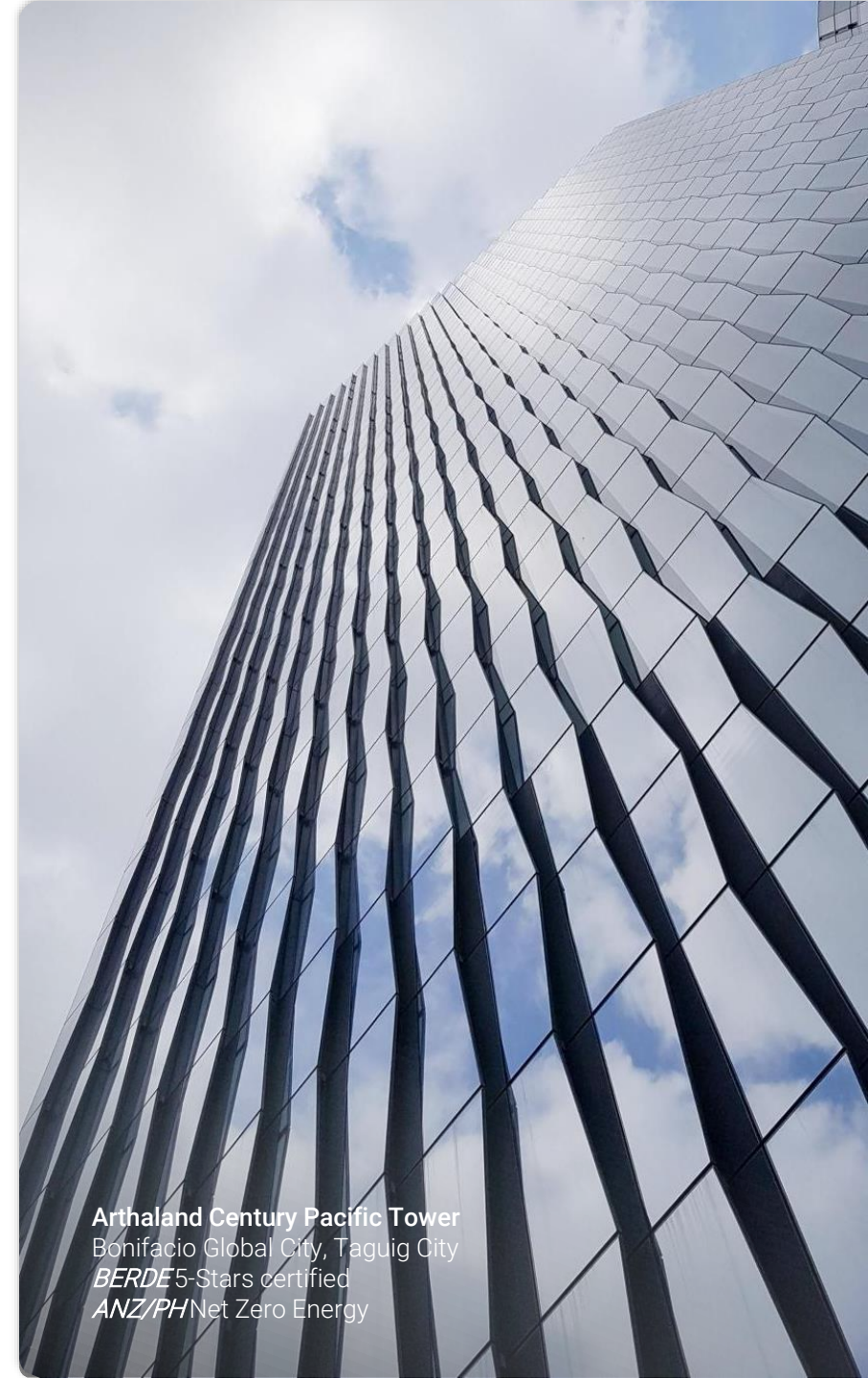


Credible marketing



Compliance and policy support

Arthaland Century Pacific Tower
Bonifacio Global City, Taguig City
BERDE 5-Stars certified
ANZ/PH Net Zero Energy





BERDE

INSPIRE **CONFIDENCE**
BUILD **TRUST**

BERDEOnline.org

Latitude Corporate Center
Cebu Business Park, Cebu City
BERDE 5-Star certified



Rating Schemes



BERDE — Buildings

Buildings focuses on the sustainability performance of the design, construction and operations of **buildings** and **tenant** spaces.



BERDE — Districts

Districts focuses on the sustainability performance of the planning and implementation of **communities** and **campuses**.

Core Framework

The **Core Framework** of **BERDE** defines the different credits that are essential in developing a green building projects.



Management



Use of Land
and Ecology



Energy



Water



Waste



Materials



Transportation



Health and
Well-being



Emissions

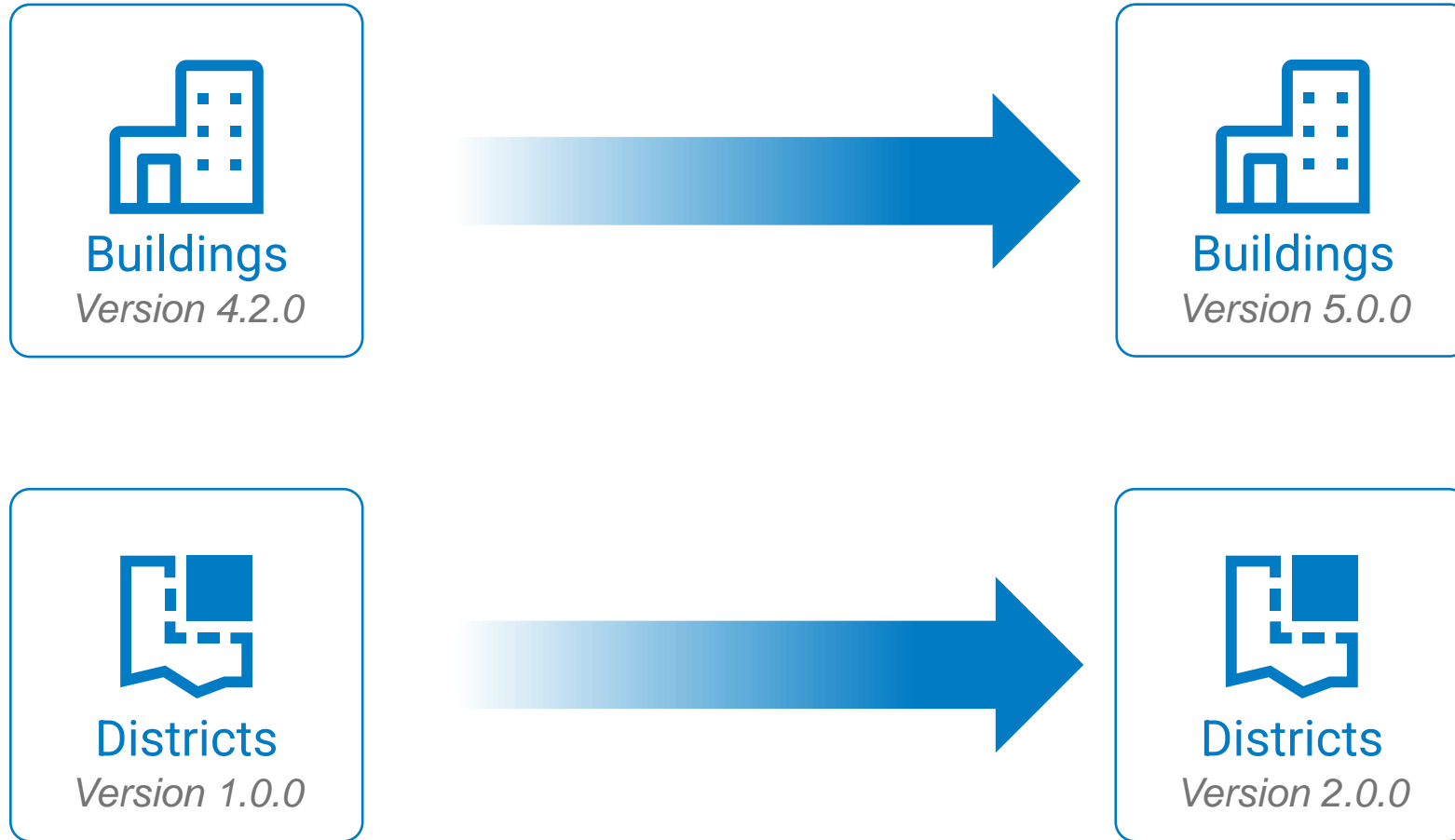


Community
Engagement



Economic
Opportunity

What's next for **BERDE**?





ANZ/PH

Advancing Net Zero Philippines

ANZPH.org



Seven/NEO
Bonifacio Global City, Taguig City
BERDE 5-Star certified
ANZ/PH Net Zero Energy

What is Advancing Net Zero Energy?



Conserve

Prioritize the conservation of energy using **passive design strategies** to reduce the operational energy demand.



Optimize

Further reduce the operational energy demand using **energy-efficient technologies and strategies**.



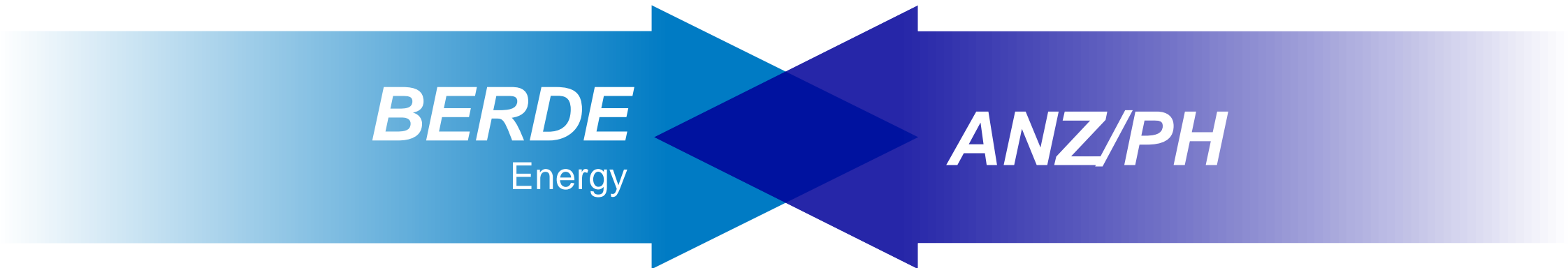
Renew

Use **renewable energy** for the reduced operational energy demand of the project.

Green Buildings and Net Zero Energy Buildings

BERDE certified projects may be recognized as **ANZ/PH** Net Zero Energy projects when they:

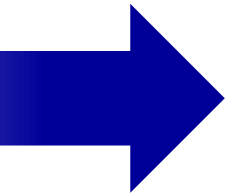
- Achieve a **minimum of *BERDE* 4-Star Certification**;
- Achieve a **perfect score under the *Energy* category**; and
- Use **100% renewable energy** for their remaining operational energy demand.



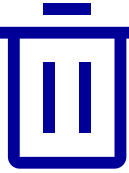
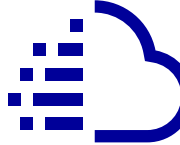


What's next for **ANZ/PH**?



What's next for **ANZ/PH**?



 Energy <i>Version 1.1.0</i>	 Water <i>Version 1.0.0</i>
 Waste <i>Version 1.0.0</i>	 Carbon <i>Version 1.0.0</i>


Districts
Version 1.0.0



H+W PHILGBC Health and Well-being for Buildings

HealthPH.org



Botanika Nature Residences (Tower 1)
Bonifacio Global City, Taguig City
BERDE 4-Stars certified
H+W 3-Stars certified

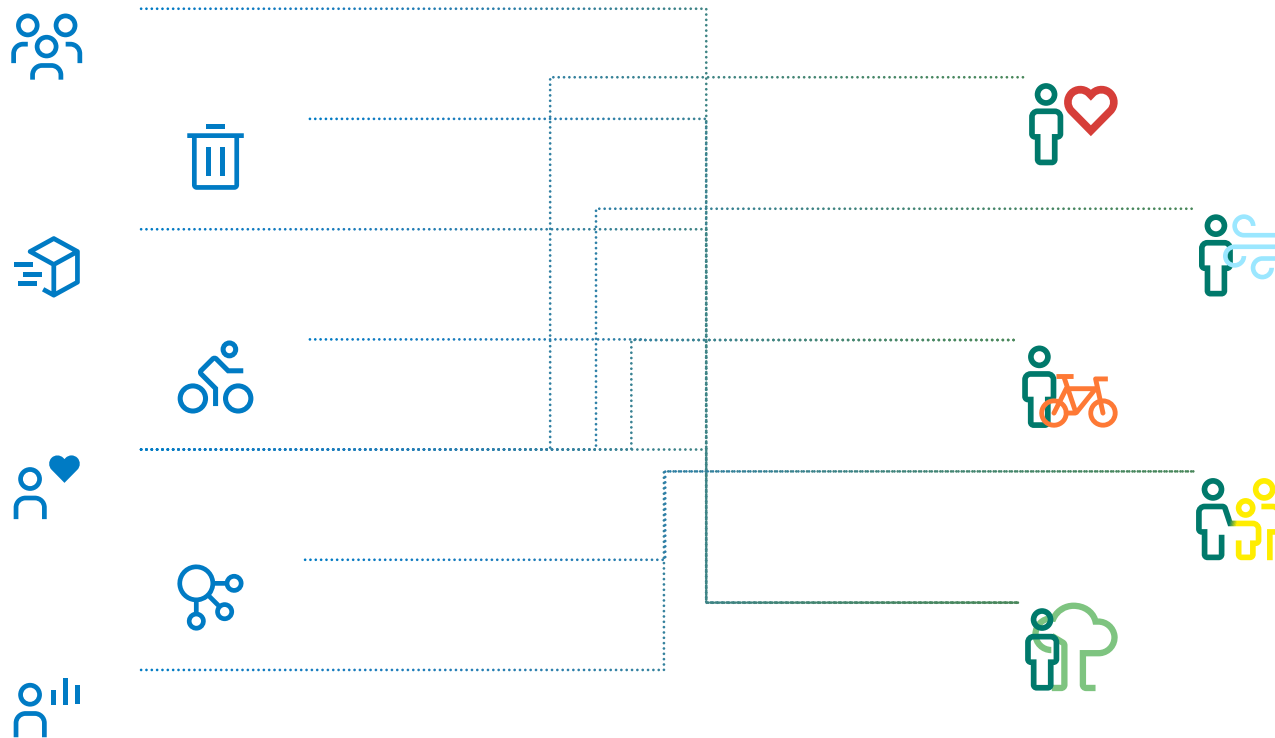
Core Framework

The **Core Framework** of the *PHILGBC Health and Well-being for Buildings* tool defines the different credits that are essential in developing a healthy building project.



Green Buildings and Healthy Buildings

A cross recognition will be implemented to recognize submissions and awarded credits for **BERDE** certified projects undergoing **H+W** Certification and vice versa.

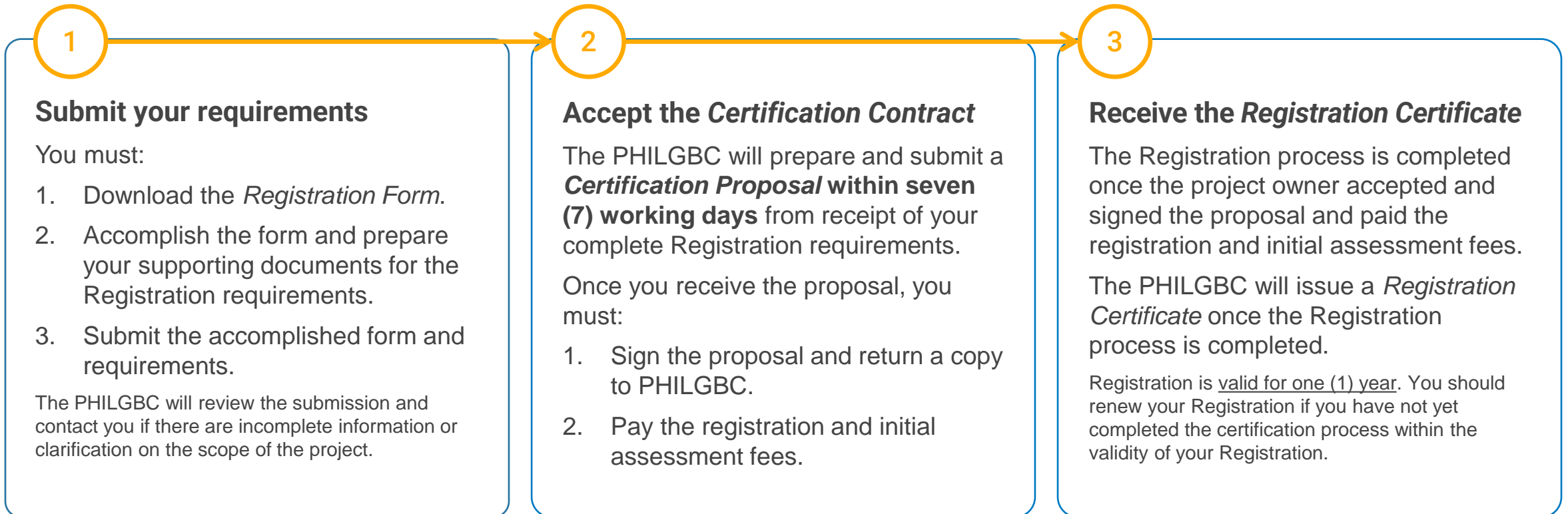




Certification

Registration

The project owner must review the eligibility of the project for the applicable rating scheme, and compliance with the *Minimum System Requirements*.

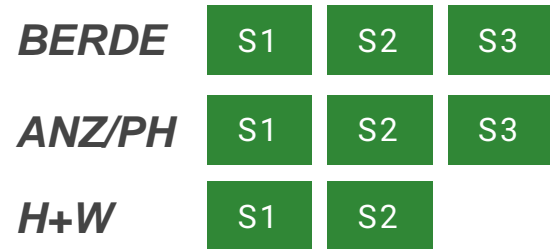


Scope



Buildings

Buildings focuses on the sustainability performance of the design, construction and operations of **buildings** and **tenant** spaces.



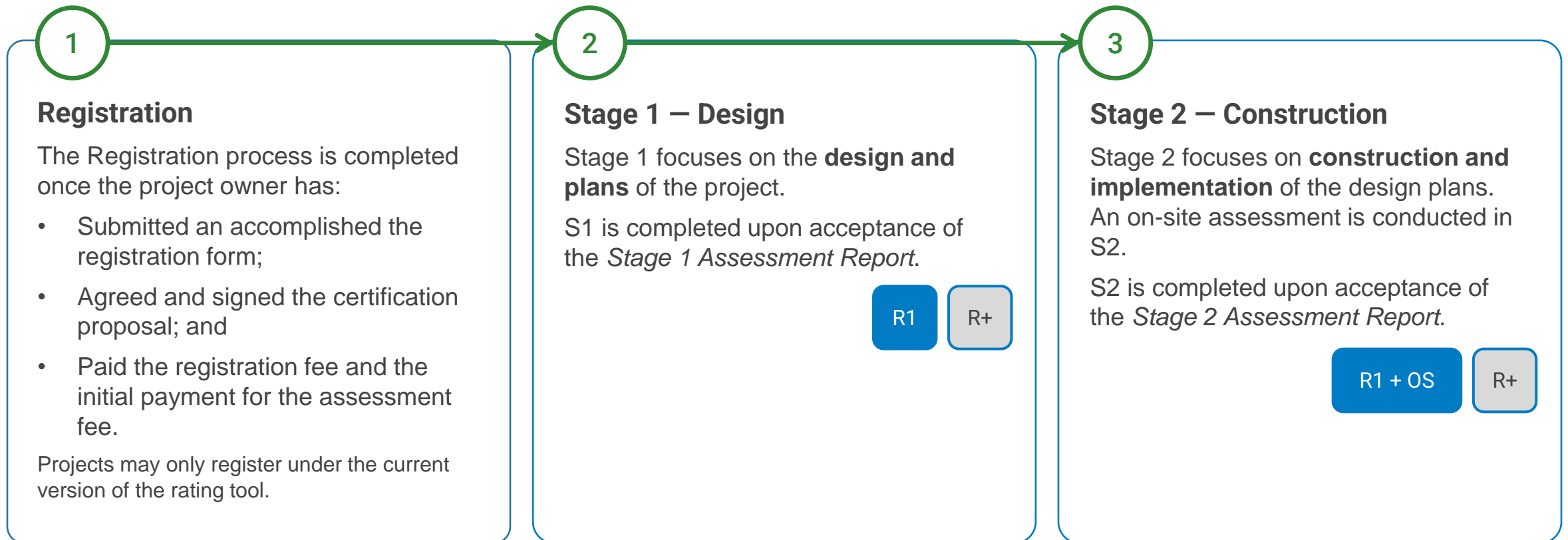
Districts

Districts focuses on the sustainability performance of the planning and implementation of **communities** and **campuses**.



Certification Process (1/2)

If your project is **newly constructed or undergone major renovations**:



Certification Process (2/2)

If your project is **under operations**:

1

Registration

The Registration process is completed once the project owner has:

- Submitted an accomplished the registration form;
- Agreed and signed the certification proposal; and
- Paid the registration fee and the initial payment for the assessment fee.

Projects may only register under the current version of the rating tool.

2

Stage 3 – Operations

Stage 3 focuses on the **planning and performance** of the operations of a project. The assessment will involve the policies, targets, procedures and strategies established during the planning period, and the implementation, improvements and outcomes during the performance period of the project.

S3 is completed upon acceptance of the *Stage 3 Assessment Report*.

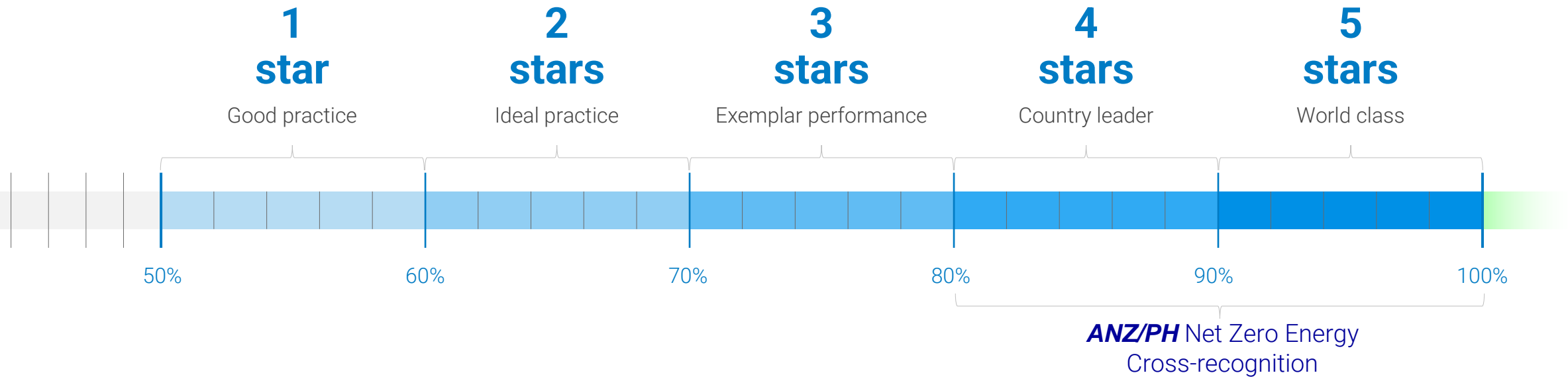
R1 + OS

R+

BERDE Certification

The assessment team will provide a recommendation for the rating of a project based on the outcomes of the assessment at each stage. The minimum rating is **BERDE** 1-Star rating.

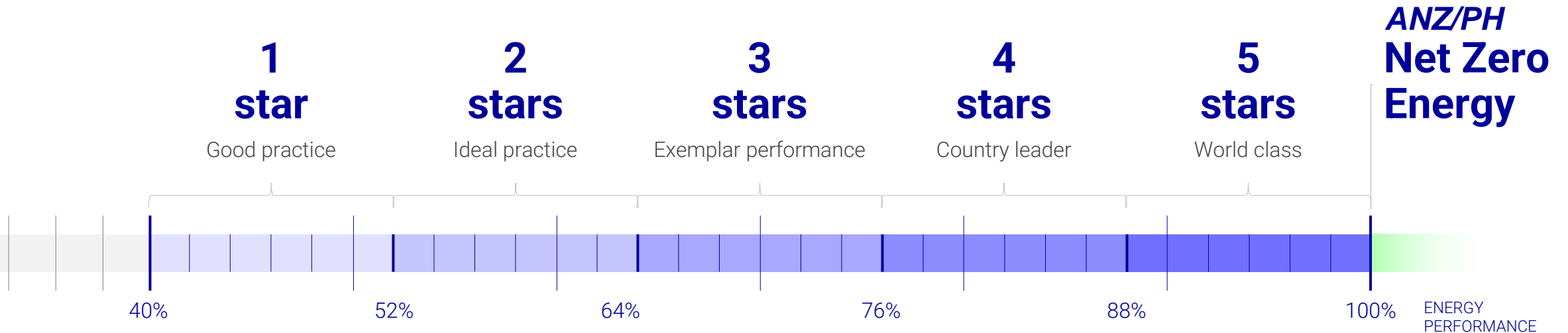
Some jurisdictions in the Philippines may have mandated the certification and may require a higher rating as the minimum performance in their jurisdiction.



Advancing Net Zero Energy

With a **minimum 40% energy performance** through conservation and efficiency, projects are certified based on how they advance towards net zero with the appropriate rating for **ANZ/PH Advancing Net Zero Energy**.

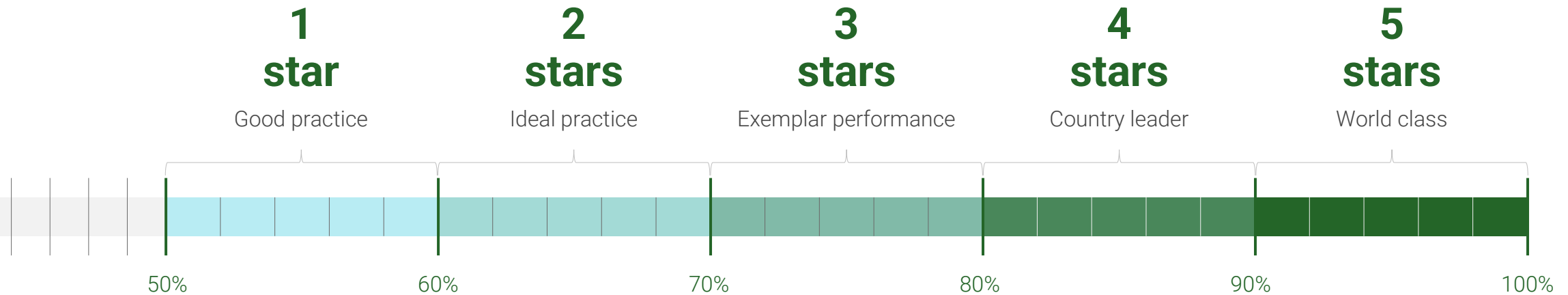
In addition to the rating, projects that achieve **100% energy performance** are also certified as **ANZ/PH Net Zero Energy** projects.



H+W Certification

The assessment team will provide a recommendation for the rating of a project based on the outcomes of the assessment at each stage. The minimum rating is **BERDE** 1-Star rating.

Some jurisdictions in the Philippines may have mandated the certification and may require a higher rating as the minimum performance in their jurisdiction.

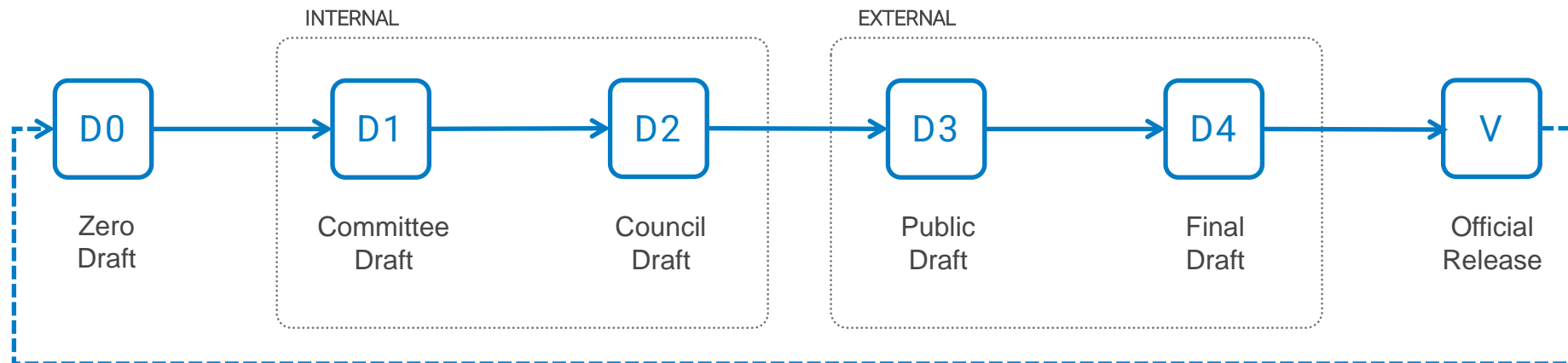




Development

How are rating tools developed?

The major versions of the rating tools are developed in line with international standards development best practices and standards, and these are harmonized with national and international building and environmental standards.



Development Process

The intent of the commenting opportunities for the development of rating tools are to:

- Allow the PHILGBC General Membership and the General Public to provide recommendations on how to improve our rating tools;
- Gather the insights, expertise and experiences of materially affected stakeholders and users to improve our rating tools based on current best practices, technologies and standards; and
- Improve the performance requirements for green building projects.



The PHILGBC circulates and presents the *Consensus Document* to the PHILGBC General Membership and the General Public to take into consideration their insights, expertise and experiences for the improvement of the rating tool as part of the consensus building process before it is officially released.



Get your project certified

Use the latest version of **BERDE**, **ANZ/PH** and **H+W** in your project, register your project and successfully complete the certification process to get your project certified.

For registration concerns, please contact Mr. Chester de la Cruz at BERDE@philgbc.org, ANZPH@philgbc.org, and HealthPH@philgbc.org.



LIMA Estate
Lipa, Batangas
BERDE 5-Stars certified



Thank you!

John Reniel S. Englis REE CBP, CBA, ANZ/PH AP, H+W AP
Technical Staff
Philippine Green Building Council



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ANZPH.org HealthPH.org GreenBuildingPH.org



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Modala Beach Resort and Moadto Strip
Panglao, Bohol
*BERDE*2-Stars certified

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This document was prepared using Microsoft PowerPoint, with Arial as its primary font and Roboto for the header font. Layout and design of the slides and notes are prepared by the PHILGBC National Secretariat.



■■■■

BERDE Development: Presentation of the ***BERDE – Buildings – Version 5.0.0*** ***Committee Draft***

Ms. Rowena C. Ramos
Chair, ***BERDE*** Committee



BERDE Development:
Presentation of the
BERDE – Buildings –
Version 5.0.0
Committee Draft





BERDE Development:
Presentation of the
BERDE – Buildings – Version 5.0.0
Committee Draft

Consensus Document

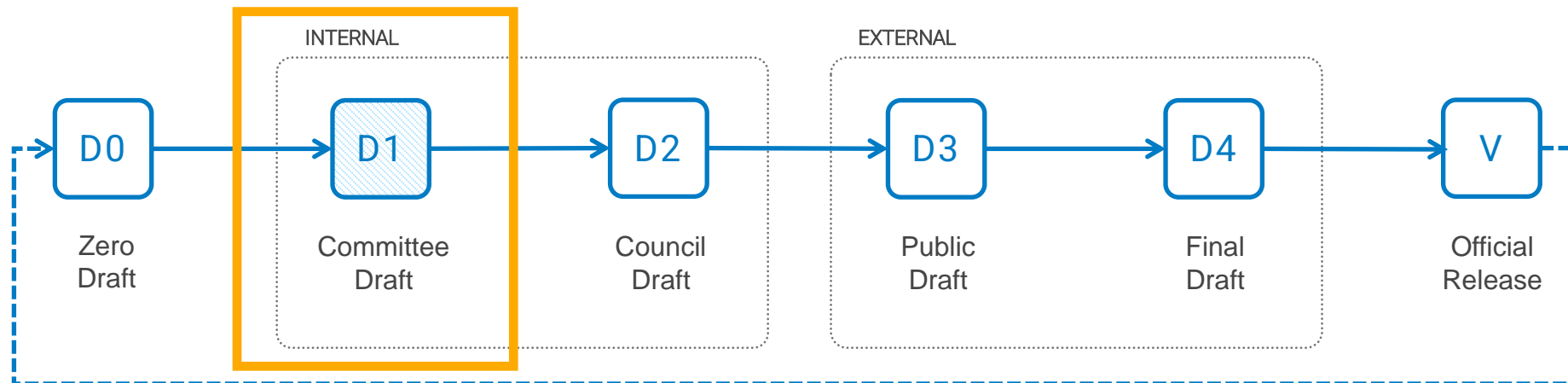


You may access the current draft
under development at
[https://docs.berdeonline.org/
consensusdoc/under-development/](https://docs.berdeonline.org/consensusdoc/under-development/).

How is **BERDE** developed?

BERDE is developed in line with international standards development best practices and standards, and it is harmonized with national and international building and environmental standards.

BERDE is developed in harmony with the *Quality Assurance Guide for Green Building Rating Tools*. (WorldGBC, 2015)



Committee Draft to Council Draft



The PHILGBC Membership and Certified **BERDE** Professionals provided their comments and recommendations from 9 August to 8 September 2023.

	NO. OF COMMENTS
BERDE Committee	
Committee Meeting – 20 June 2023	1
Committee Meeting – 28 July 2023	3
PHILGBC Members	
Commenting Period – 9 August to 8 September 2023	8
Special Membership Meeting – 17 August 2023	4
Non-members	
Certified BERDE Professionals	1
Staff	2
TOTAL	19



Scope and Applicability

Scope and Applicability ^(1/2)

Life Cycle Stages

S1

STAGE 1 – DESIGN

The design stage involves the conceptualization and strategic planning of the project's objectives, expected outcomes, and requirements.

The design stage also includes the development of a detailed design and the initiation of the procurement procedure for the project's specified products and services.

S2

STAGE 2 – CONSTRUCTION

The construction stage includes site preparation and construction activities in the project's design implementation.

The construction stage also includes the monitoring and inspection of construction progress and quality, as well as the successful completion of the project's commissioning phase.

S3

STAGE 3 – OPERATIONS

The operations stage includes activities related to the building's use by the project users, maintenance of the building's spaces and systems, and continuous management and optimization of the project's operations.

Scope and Applicability (2/2)

Project Types

BUILDINGS

Building projects refer to the whole building design and construction, or operations. The scope of a building project includes areas that are designed, constructed or managed by the project owner and its project team.

TENANTS

Tenant projects refer to project areas that are owned or leased and managed by the project owner within a building.

Occupancy Types

OFFICES

RETAIL

VERTICAL RESIDENTIAL BUILDINGS

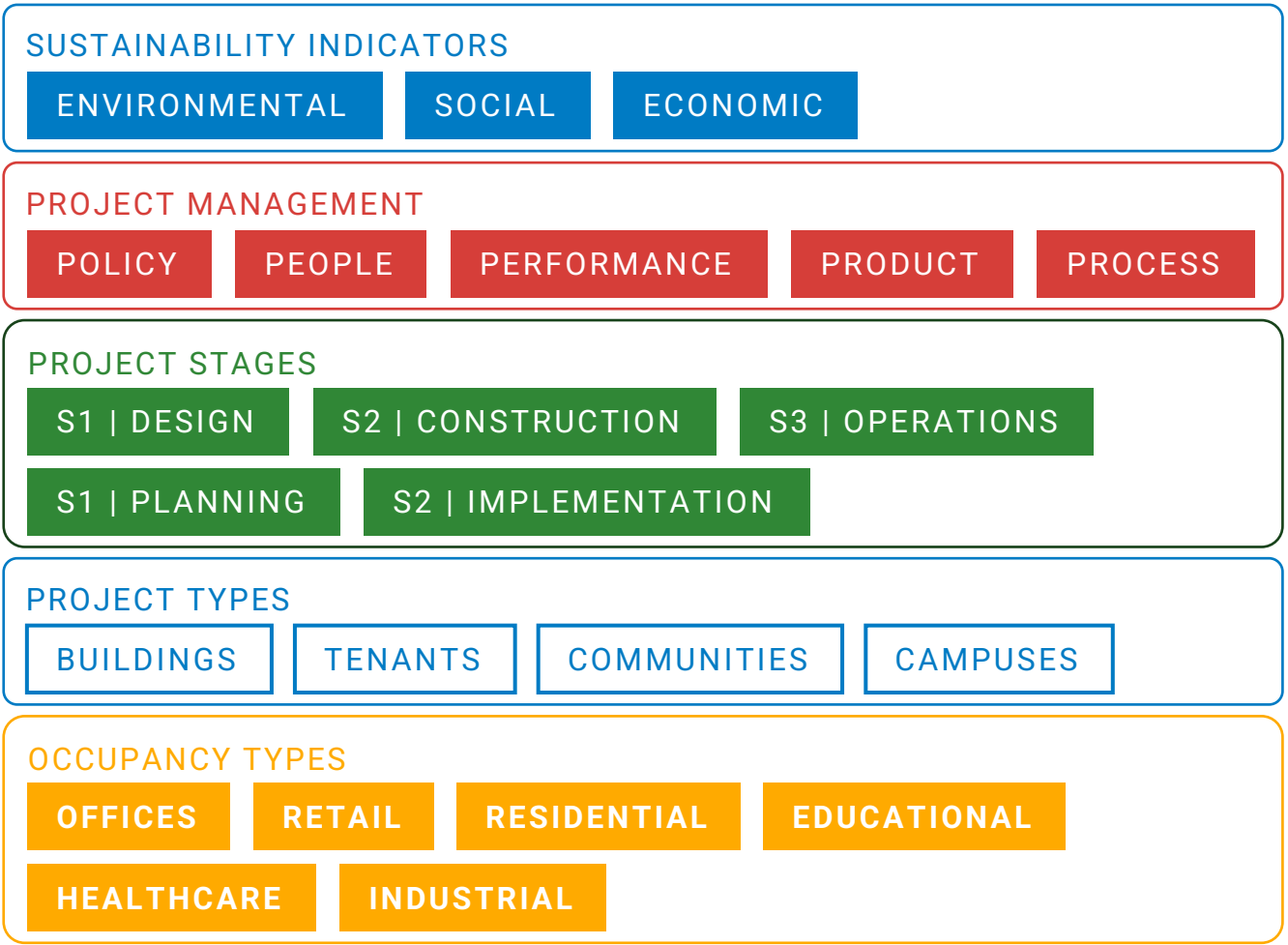
CLUSTERED RESIDENTIAL BUILDINGS

EDUCATIONAL BUILDINGS

HEALTH FACILITIES

INDUSTRIAL BUILDINGS

Credit Framework



Each credit aims to address a sustainability target and to focus on the projects’ performance reflected in its *Purpose and Intent*.

Requirements are written to address project management requirements.

Each credit includes considerations for the building life cycle of projects under its *Requirements* and *Compliance Notes*.

Specific requirements based on the project type are indicated in each credit.

Specific requirements based on the occupancy type are indicated in each credit.

Credit Outline

Credit Name

Credit Tags

- Certification Stages: Stage 1 – Design, Stage 2 – Construction or Stage 3 – Operations
- Project Type: Buildings or Tenants
- Occupancy Type
- UN Sustainable Development Goals **NEW**

Purpose and Intent **EDITED**

Requirements

Score Distribution

Compliance Notes

Additional Information **NEW**

- Terms and Definitions **NEW**
- Additional Readings **NEW**
- Credit Alignment to PHILGBC Certification Programs **NEW**



Minimum System Requirements

Minimum System Requirements (1/2)

The *Minimum System Requirements* define the fundamental requirements for projects undergoing **BERDE** Certification. Projects must demonstrate their compliance with all MSR to qualify for certification.

NO.	CREDIT	STAGES	PROJECTS	
MSR-01	Regulatory Compliance UPDATED	ALL STAGES	BUILDINGS	TENANTS
MSR-02	Distinct and Clear Boundaries	ALL STAGES	BUILDINGS	TENANTS
MSR-03	Disclosure of Resource Performance Data	ALL STAGES	BUILDINGS	TENANTS
MSR-04	Initial Site Assessment	ALL STAGES	BUILDINGS	TENANTS
MSR-05	Deconstruction Waste Management	ALL STAGES	BUILDINGS	TENANTS
MSR-06	Construction Activity Pollution Prevention and Control	ALL STAGES	BUILDINGS	TENANTS

Minimum System Requirements (2/2)

Summary of Changes

For *MSR-01 Regulatory Compliance*, updated the Compliance Notes with the following documents:

- BFP-accepted and approved *Fire Safety Compliance Report (FSCR)*;
- BFP-accepted and approved *Fire Safety Compliance and Commissioning Report (FSCCR)*;
- BFP-accepted and approved *Fire Safety Maintenance Report (FSMR)*;



Core Framework

Core Framework

The **Core Framework** of **BERDE** defines the different credits that are essential in developing a green building projects.



Management EDITED



Sites and
Community EDITED



Energy EDITED



Water EDITED



Materials and
Circularity EDITED



Health and
Well-being EDITED



Emissions EDITED



Resiliency EDITED



Socio-economic
Opportunities EDITED

Management ^(1/2)

Management focuses on the sustainable processes and practices for the effective management of the design, construction and operations of projects.

NO.	CREDIT	STAGES	PROJECTS	
MN-01	Green Building Professional	ALL STAGES	BUILDINGS	TENANTS
MN-02	Stakeholder Consultation	ALL STAGES	BUILDINGS	TENANTS
MN-03	Project Management	ALL STAGES	BUILDINGS	TENANTS
MN-04	Certified Green Building	ALL STAGES	BUILDINGS	TENANTS
MN-05	Staff Training EDITED	ALL STAGES	BUILDINGS	TENANTS
MN-06	Green Building Education	ALL STAGES	BUILDINGS	TENANTS
MN-07	Tenant Design and Construction Management	ALL STAGES	BUILDINGS	

Management (2/2)

Summary of Changes

Substantial

For *MN-05 Staff Training*, defined “qualified and competent instructor”. *Qualified and competent instructors* “refer to instructors that have:

- Recognized degree, certification, or professional registration and license related to the subject matter; and
- Training and experience indicating extensive knowledge related to the subject matter.”

Sites and Community (1/4)

Sites and Community promotes effective site selection and land use, the reduction of the negative impacts to the natural environment and local ecology, and the adoption of sustainable transportation strategies to mitigate the negative impacts of vehicle travel.

NO.	CREDIT	STAGES	PROJECTS
SC-01	Land Reuse	S1 S2	BUILDINGS
SC-02	Environmentally Critical Areas Protection	S1 S2	BUILDINGS
SC-03	High Priority Site	S1 S2	BUILDINGS
SC-04	Certified Green District	ALL STAGES	BUILDINGS TENANTS
SC-05	Ecological Features Improvement	ALL STAGES	BUILDINGS
SC-06	Vegetated Open Spaces Promotion	S1 S2	BUILDINGS
SC-07	Heat Island Reduction EDITED	S1 S2	BUILDINGS

Sites and Community (2/4)

Sites and Community promotes effective site selection and land use, the reduction of the negative impacts to the natural environment and local ecology, and the adoption of sustainable transportation strategies to mitigate the negative impacts of vehicle travel.

NO.	CREDIT	STAGES	PROJECTS	
SC-08	Landscape Management	S3	BUILDINGS	TENANTS
SC-09	Light Pollution Reduction	ALL STAGES	BUILDINGS	
SC-10	Key Establishments Proximity	ALL STAGES	BUILDINGS	TENANTS
SC-11	Mass Transportation Access	ALL STAGES	BUILDINGS	TENANTS
SC-12	Preferred Parking — Fuel-efficient and Low-emitting Vehicles	ALL STAGES	BUILDINGS	
SC-13	Preferred Parking — Electric Vehicles	ALL STAGES	BUILDINGS	
SC-14	Preferred Parking — Additional Accessible Parking Spaces <small>EDITED</small>	ALL STAGES	BUILDINGS	

Sites and Community (3/4)

Sites and Community promotes effective site selection and land use, the reduction of the negative impacts to the natural environment and local ecology, and the adoption of sustainable transportation strategies to mitigate the negative impacts of vehicle travel.

NO.	CREDIT	STAGES	PROJECTS	
SC-15	Cyclist Facilities	ALL STAGES	BUILDINGS	TENANTS
SC-16	Pedestrian Mobility	ALL STAGES	BUILDINGS	

Sites and Community (4/4)

Summary of Changes

Substantial

For *SC-07 Heat Island Reduction*, updated the terminology used under Requirements for “solar reflectance index (SRI)” to “solar reflectance (SR)” for non-roof materials.

For *SC-14 Preferred Parking — Additional Accessible Parking Spaces*, updated the design requirements for additional accessible parking spaces to:

- Be designed in conformity with generally accepted standards for parking accessibility;
- Have a minimum length of 5 m and a minimum width of 3.70 m;
- Have an access aisle that has a minimum width of 1.20 m;
- Be clearly marked with slip-resistant materials and highly visible markings and signages;
- Have easy access and clear routes leading to the building entrance or parking area; and
- Be located within 30 m from building entrances with immediate access to elevators or stairlifts.

Energy (1/2)

Energy focuses on managing, reducing, or eliminating of a project’s excessive use of energy.

NO.	CREDIT	STAGES	PROJECTS	
EN-01	Energy Consumption Reduction	ALL STAGES	BUILDINGS	TENANTS
EN-02	Renewable Energy	ALL STAGES	BUILDINGS	
EN-03	Fuel Consumption Reduction <small>EDITED</small>	S3	BUILDINGS	TENANTS

Energy (2/2)

Summary of Changes

Substantial

For *EN-03 Fuel Consumption Reduction*, updated the *Purpose and Intent* from "This credit aims to:

- Reduce the fuel consumption of the project for fuel-based energy-related building systems; and
- Improve the overall energy performance of the project."

to "This credit aims to:

- Encourage the use of clean energy sources to support building decarbonization; and
- Eliminate or reduce the fossil fuel consumption of fossil fuel-based building systems and equipment used in the project."

In addition, under *Requirements*, included the following:

- The additional fossil fuel-based building systems and equipment used in projects;
- The types of fossil fuels commonly used in buildings; and
- The use of alternatives to fossil fuel-based building systems and equipment.

Water (1/2)

Water focuses on the effective management and reduction of the overall water demand for the project.

NO.	CREDIT	STAGES	PROJECTS	
WT-01	Water Consumption Reduction	ALL STAGES	BUILDINGS	TENANTS
WT-02	Graywater Reuse	ALL STAGES	BUILDINGS	
WT-03	Rainwater Harvesting <small>EDITED</small>	ALL STAGES	BUILDINGS	

Water (2/2)

Summary of Changes

Substantial

For *WT-03 Rainwater Harvesting*, under *Requirements*, added *Rainwater Catchment Systems Standard [ARCSA/ASPE/ANSI Standard 63]* as a reference for determining the capacity of the rainwater storage for the project.

Materials and Circularity (1/2)

Materials and Circularity emphasize the importance of sourcing and utilizing materials that have beneficial effects on the environment, society, and economy. The category prioritizes the responsible procurement and usage of materials to minimize any negative impacts, and the efficient management of solid waste, aiming to reduce the project’s waste generation and divert waste away from landfills.

NO.	CREDIT	STAGES	PROJECTS	
MC-01	Green Procurement EDITED	ALL STAGES	BUILDINGS	TENANTS
MC-02	Local Procurement EDITED	ALL STAGES	BUILDINGS	TENANTS
MC-03	Community-based Enterprise Procurement	ALL STAGES	BUILDINGS	TENANTS
MC-04	Waste Management	ALL STAGES	BUILDINGS	TENANTS

Materials and Circularity (2/2)

Summary of Changes

Substantial

For *MC-02 Local Procurement*:

- Under *Requirements*, updated the proximity requirement for procuring locally manufactured materials for the project to:
 - The Philippines,
 - The region where the project is located, or
 - The province where the project is located.
- Under *Score Distribution*, updated the thresholds based on the updated *Requirements*.

Non-substantial

For *MC-01 Green Procurement*, under *Additional Readings*, added the Global Ecolabelling Network (GEN) as an additional resource for ecolabelled products.

Health and Well-being ^(1/3)

Health and Well-being promotes improved productivity and comfort and addresses the impacts of the building on the health and well-being of its users.

NO.	CREDIT	STAGES	PROJECTS	
HW-01	Visual Comfort	ALL STAGES	BUILDINGS	TENANTS
HW-02	Daylight Access	ALL STAGES	BUILDINGS	TENANTS
HW-03	Outdoor Views	ALL STAGES	BUILDINGS	TENANTS
HW-04	Thermal Comfort ^{EDITED}	ALL STAGES	BUILDINGS	TENANTS
HW-05	Acoustic Comfort	ALL STAGES	BUILDINGS	TENANTS
HW-06	Indoor Air Quality	ALL STAGES	BUILDINGS	TENANTS

Health and Well-being (2/3)

Health and Well-being promotes improved productivity and comfort and addresses the impacts of the building on the health and well-being of its users.

NO.	CREDIT	STAGES	PROJECTS	
HW-07	Microbial Control	ALL STAGES	BUILDINGS	TENANTS
HW-08	Low VOC Environment	ALL STAGES	BUILDINGS	TENANTS
HW-09	Active Design	ALL STAGES	BUILDINGS	TENANTS
HW-10	Urban Agriculture	ALL STAGES	BUILDINGS	TENANTS
HW-11	Place of Respite	ALL STAGES	BUILDINGS	TENANTS
HW-12	Enhanced Occupational Safety and Health	ALL STAGES	BUILDINGS	TENANTS

Health and Well-being (3/3)

Summary of Changes

Substantial

For *HW-04 Thermal Comfort*, under *Score Distribution*, added “90% acceptability limit” as a parameter for achieving high level of thermal comfort in all regularly occupied spaces.

Emissions (1/2)

Emissions focuses on identifying, planning, and managing the reduction of emissions in a project and its contribution to global warming and climate change.

NO.	CREDIT	STAGES	PROJECTS	
EM-01	Greenhouse Gas Inventory	ALL STAGES	BUILDINGS	TENANTS
EM-02	Refrigerant Use <small>EDITED</small>	ALL STAGES	BUILDINGS	TENANTS

Emissions (2/2)

Summary of Changes

Substantial

For *EM-02 Refrigerant Use*:

- Under *Requirements*, added *Chemical Control Order for HFCs [DENR Department Order No. 2021-31]* as a reference for determining non-ODS and low GWP refrigerants for the project.
- Under *Requirements*, added the use of low GWP refrigerants for the project.

Resiliency (1/3)

Resiliency focuses on improving the capability of the project and users to prepare for, respond to, and recover from the impacts of disaster risks and hazards.

NO.	CREDIT	STAGES	PROJECTS	
RE-01	Disaster Prevention and Mitigation EDITED	ALL STAGES	BUILDINGS	TENANTS
RE-02	Disaster Preparedness EDITED	ALL STAGES	BUILDINGS	TENANTS
RE-03	Disaster Response and Recovery EDITED	ALL STAGES	BUILDINGS	TENANTS

Resiliency (2/3)

Summary of Changes (1/2)

Substantial

For *RE-01 Disaster Prevention and Mitigation*,

- For *Stage 1*, the *Requirements* were updated to incorporate the establishment of a construction and operations disaster prevention and mitigation program, as well as the development of an action plan for implementing the program.
- For *Stage 2*, the *Requirements* were updated to incorporate the implementation of the disaster prevention and mitigation program, and the evaluation of the effectiveness of its implementation.

For *RE-02 Disaster Preparedness*

- For *Stage 1*, the *Requirements* were updated to incorporate the establishment of a construction and operations disaster preparedness program, as well as the development of an action plan for implementing the program.
- For *Stage 2*, the *Requirements* were updated to incorporate the implementation of the disaster preparedness program, and the evaluation of the effectiveness of its implementation.

Resiliency (3/3)

Summary of Changes (2/2)

For *RE-03 Disaster Response and Recovery*:

- For *Stage 1*, the *Requirements* were updated to incorporate the establishment of a construction and operations disaster response and recovery program, as well as the development of an action plan for implementing the program.
- For *Stage 2*, the *Requirements* were updated to incorporate the implementation of the disaster response and recovery program, and the evaluation of the effectiveness of its implementation.

Socio-economic Opportunities (1/2)

Socio-economic Opportunities focuses on addressing the local community's needs, creating equal opportunities for employment, education, and skill development, and promoting Filipino heritage and culture.

NO.	CREDIT	STAGES	PROJECTS	
SE-01	Filipino Art	ALL STAGES	BUILDINGS	TENANTS
SE-02	Green Jobs	ALL STAGES	BUILDINGS	TENANTS
SE-03	Local Labor EDITED	ALL STAGES	BUILDINGS	TENANTS
SE-04	Women Empowerment	ALL STAGES	BUILDINGS	TENANTS
SE-05	Community Facility	ALL STAGES	BUILDINGS	TENANTS

Socio-economic Opportunities (2/2)

Summary of Changes

For *SE-03 Local Labor*, under *Requirements for Stage 3 — Operations*, added “involved in the operations and maintenance of the project” for the total employment requirements in the calculation of the percentage of local labor hiring.

Consensus Document



You may access the current draft
under development at
[https://docs.berdeonline.org/
consensusdoc/under-development/](https://docs.berdeonline.org/consensusdoc/under-development/).

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Thank you!

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