Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

The 61st Meeting of APEC Expert Group on Energy Efficiency & Conservation and 59th Meeting of APEC Expert Group on New and Renewable Energy Technology

"Reinforcing Relevant Laws for a Comprehensive Approach to Energy Efficiency and Conservation, Renewable Energy, Electric Vehicle, and Sustainability in the APEC Region"

PHILIPPINE GREEN BUILDING COUNCIL PRESENTATION

Christopher C. de la Cruz
Vice Chairman, WorldGBC Asia-Pacific Network
Chief Executive Officer, PHILGBC

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

The 61st Meeting of APEC Expert Group on Energy Efficiency & Conservation and 59th Meeting of APEC Expert Group on New and Renewable Energy Technology

"Reinforcing Relevant Laws for a Comprehensive Approach to Energy Efficiency and Conservation, Renewable Energy, Electric Vehicle, and Sustainability in the APEC Region"

OUTLINE

WorldGBC-APN Advancing Net Zero Readiness Framework
Asia-Pacific Knowledge Hub
Recent Updates on Decarbonization
PHILGBC Green Building Rating and Certification Tools

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC-APN ADVANCING NET ZERO READINESS FRAMEWORK

A comprehensive and holistic approach to advancing net zero in the built environment

Provides guidance for organizations to transition towards net-zero buildings by 2050

Focuses on five categories: government leadership, technical approaches, finance, data, and mindset

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC-APN ADVANCING NET ZERO READINESS FRAMEWORK

GOVERNMENT LEADERSHIP

- commit to carbon neutrality targets,
- pave the way towards a decarbonized built environment.
- develop national emissions targets, decarbonization roadmaps, mandatory regulations, and performance requirements, supportive policies, and
- implement a national grid decarbonization plan.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC-APN ADVANCING NET ZERO READINESS FRAMEWORK

TECHNICAL APPROACHES

- adopt innovative technologies that advance net zero for both operational and embodied carbon,
- achieve consensus on a definition of net zero,
- garner public commitments from industry leaders,
- create energy performance improvement strategies,
- implement policies for renewable energy integration, and
- establish certification schemes for net zero and green products.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC-APN ADVANCING NET ZERO READINESS FRAMEWORK

FINANCE

Organizations should:

- optimize the potential of green financing by expanding investment instruments that support the net zero movement,
- develop guidelines for project budgeting and planning,
- integrate net-zero performance into reporting requirements, and
- establish frameworks for measuring net-zero project performance.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC-APN ADVANCING NET ZERO READINESS FRAMEWORK

DATA

transparency and secure data sharing are of utmost importance.

- translate improvement strategies and net-zero targets into specific, measurable, achievable, relevant, and time-bound parameters.
-implement data governance, infrastructure, and processes that enable data collection for operational and embodied carbon, adopting digital solutions for effective decision-making, and
- promote data transparency through voluntary disclosure.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC-APN ADVANCING NET ZERO READINESS FRAMEWORK

MINDSET

- garner public declarations of net-zero commitments,
- form net-zero leadership teams,
- develop and implement programs that incentivize and promote net-zero practices,
- provide training and awareness campaigns, and
- strengthen positive perceptions through various platforms.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC-APN ADVANCING NET ZERO READINESS FRAMEWORK

WorldGBC-APN Advancing Net Zero Readiness Framework empowers organizations to align their practices and policies with the global goal of net-zero carbon emissions. By establishing a robust process for measurement, verification, and disclosure, we can track progress and showcase our commitment to sustainability.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

ASIA PACIFIC KNOWLEDGE HUB

- developed to facilitate knowledge exchange and capacity building,
- created to serve as a centralized platform for sharing best practices, case studies, research, and expertise,
- aims to enhance collective understanding of sustainable building practices, and
- promote the adoption of innovative solutions throughout the Asia-Pacific

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

ASIA PACIFIC KNOWLEDGE HUB

- developed to facilitate knowledge exchange and capacity building,
- created to serve as a centralized platform for sharing best practices, case studies, research, and expertise,
- aims to enhance collective understanding of sustainable building practices, and
- promote the adoption of innovative solutions throughout the Asia-Pacific

The WorldGBC website offers information on energy conservation, efficiency, and renewable energy for a low-carbon economy and mitigating climate change's negative impacts on the built environment. For detailed insights, visit the WorldGBC-APN Advancing Net Zero Readiness Framework and Asia-Pacific Knowledge Hub.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC ASIA-PACIFIC NETWORK MEETING 2023

DISCUSSION OUTCOMES

Varied lifecycle stages of buildings pose a significant hurdle.
The reduction of carbon emissions requires tailored strategies and solutions at each stage of the process, addressing the unique considerations and difficulties at each stage.

Setting ambitious targets for carbon reduction can feel overwhelming due to the scale of the challenge.
The built environment's significant greenhouse gas emissions require ambitious goals, which can be achieved by breaking them down into manageable steps for tangible progress.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC ASIA-PACIFIC NETWORK MEETING 2023

DISCUSSION OUTCOMES

Addressing carbon in the built environment requires context-specific considerations.
The carbon footprint of construction and energy consumption, as well as operational carbon, is significantly influenced by factors like building context, geography, and stakeholder preferences, necessitating the development of tailored strategies.

Differentiating between new and existing buildings is essential.
Recognizing the distinction between new and operational buildings is crucial for taking appropriate actions for each type of building.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC ASIA-PACIFIC NETWORK MEETING 2023

DISCUSSION OUTCOMES

The issue of split incentives in the built environment arises from differing motivations and responsibilities among stakeholders in carbon reduction efforts.

Misaligned incentives among stakeholders due to differing goals, influence levels, and benefits of action are crucial for collective change, and aligning incentives is essential.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

WORLDGBC ASIA-PACIFIC NETWORK MEETING 2023

DISCUSSION OUTCOMES

Collaboration among businesses, governments, communities, and stakeholders is crucial for developing innovative strategies. This involves pooling resources, expertise, and perspectives, leveraging unique strengths, and implementing supportive policies, regulations, and knowledge-sharing initiatives. Engaging with local communities and showcasing success stories can demonstrate the positive impact of collective efforts and inspire others to take action.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

PHILGBC GREEN BUILDING ASSESSMENT, RATING, AND CERTIFICATION TOOLS

BUILDING FOR ECOLOGICALLY RESPONSIVE DESIGN EXCELLENCE (BERDE)

The BERDE Program, developed and administered by the Philippine Green Building Council (PHILGBC), was established to facilitate the implementation of sustainable practices in the building industry. One of the key outcomes of this program is the BERDE Green Building Rating System, which serves as a framework for evaluating and certifying the environmental performance of buildings. Within the BERDE system, various resources have been developed, including the BERDE Green Building Rating Schemes (GBRS) and BERDE User Guides. These documents provide comprehensive guidance on achieving sustainable building practices and assist stakeholders in navigating the certification process.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

PHILGBC GREEN BUILDING ASSESSMENT, RATING, AND CERTIFICATION TOOLS

ADVANCING NET ZERO PHILIPPINES (ANZ/PH)

The Philippine Green Building Council (PHILGBC) has established and administers the Advancing Net Zero Philippines (ANZ/PH) Program. One of the key outcomes of this program is the Advancing Net Zero Philippines Certification, which serves as a benchmark for evaluating and certifying the energy performance of projects. The ANZ/PH Program has also developed a range of resources, including the Advancing Net Zero Rating Schemes and the ANZ/PH User Guide. The User Guide is available online and serves as a voluntary reference standard for project teams, building owners, professionals, contractors, and other interested parties seeking to assess and improve the energy performance of their projects.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

PHILGBC GREEN BUILDING ASSESSMENT, RATING, AND CERTIFICATION TOOLS

BERDE and ANZ/PH

The project aims to reduce overall energy consumption by integrating energy efficiency and conservation strategies, as well as utilizing on-site or off-site renewable energy, to eliminate excessive energy usage in projects.

These tools offer a comprehensive framework for green building design, construction, and operation, focusing on energy conservation, efficiency, and renewable energy utilization. They empower stakeholders to optimize energy usage, reduce carbon emissions, and promote environmentally sustainable buildings.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

PHILGBC GREEN BUILDING ASSESSMENT, RATING, AND CERTIFICATION TOOLS

BERDE and ANZ/PH

The BERDE and ANZ/PH energy criteria are evaluated through a comprehensive process that includes documentation review and on-site inspections. Project teams submit relevant documentation, such as energy models, drawings, specifications, and reports, to demonstrate compliance with professional standards and regulations. Qualified assessors ensure projects meet industry best practices and exceed code requirements, while PHILGBC assessors possess extensive experience for optimal outcomes.

The company is eagerly anticipating the release of the Department of Energy's latest EEC and RE regulations, and is committed to integrating them into BERDE and ANZ/PH, ensuring that our certification tools remain current and aligned with the latest standards.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

PHILGBC GREEN BUILDING ASSESSMENT, RATING, AND CERTIFICATION TOOLS

BERDE and ANZ/PH

BERDE and ANZ/PH conduct a rigorous assessment of building projects' energy performance, providing valuable insights and recommendations for improving energy efficiency, conservation, and sustainable development in the Philippines, based on predetermined criteria.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

MOVING FORWARD

The WorldGBC-APN's efforts in developing the Advancing Net Zero Readiness Framework, decarbonization strategies, and the Asia Pacific Knowledge Hub have significantly contributed to the region's goal of energy efficiency, conservation, and renewable energy adoption. These initiatives foster sustainability in the built environment and contribute to a greener future for the Asia Pacific region.

At the national level, the implementation of PHILGBC's Green Building Rating tools, BERDE and ANZ/PH, demonstrates the industry's commitment to the Department of Energy's leadership in promoting Energy Efficiency and Conservation (EEC) and Renewable Energy (RE) in the Philippines. These tools are relevant and effective in driving sustainable practices within the built environment, and by embracing and implementing these tools on a large scale, the Philippines can contribute significantly to its sustainable development and greener future.

17 October 2023
Makati City, Metro Manila, Philippines

Asia-Pacific Economic Cooperation

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENERGY

ENERGY UTILIZATION MANAGEMENT BUREAU

Thank you

17 October 2023
Makati City, Metro Manila, Philippines