RENEWABLE ENERGY MARKETS PANEL DISCUSSION

PROGRESS TOWARD INTERNATIONAL INTERCONNECTIONS IN EMERGING RENEWABLE ENERGY MARKETS



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Wednesday, Sept. 20 • 11:00 AM-12:00 PM



GLOBAL ENVIRONMENTAL CONSULTING FIRM



Climate, Resiliency & Sustainability



Impact Assessment & Planning



Geotechnical/Ground Engineering



Site Assessment & Remediation



Natural Resources Management



Waste Management



Environmental Management & Compliance



Mining



Strategic Advisory



3 levels for an effective intervention in Regional Integration

POLICAL

MULTI-SECTOR

ARY APPROACH

Promote national and regional dialogue on physical integration

AND **MULTIDISCIPLIN**

3

INSTITUCIONAL

Generate mechanisms for comprehensive management of interventions and coordination of actors **OPERATIONAL**

Structuring projects and actions with innovative financial instruments







IDB Group as a regional strategic partner

guaranteeing technical quality, resources, and continuity over time and articulation of dialogue and consensus





SIEPAC \$ **IDB TOTAL INVESTMENT** CONTRIBUTION MX 508 254 **HONDURAS** Millions of US\$ Millions of US\$ **GUATEMALA EL SALVADOR NICARAGUA** 1,800 **PANAMÁ** 6 kilometers Countries **COSTA RICA** interconnected 1. Regional institutions: CDMER, EOR, CRIE, EPR CO 2. It has a Regional Regulation >300 3. It has a MER - Regional Electricity Market 4. Gives rise to the Central American Telecommunications Network market agents times more (REDCA) with the installation of fiber optic cable exchanges 5. Supplies ~6% of regional demand

6. The Northern Triangle is the most active in the use of SIEPAC

INTEGRATING RENEWABLE ENERGY MARKETS INTO THE PHILIPPINE WHOLESALE AND RETAIL ELECTRICITY MARKETS

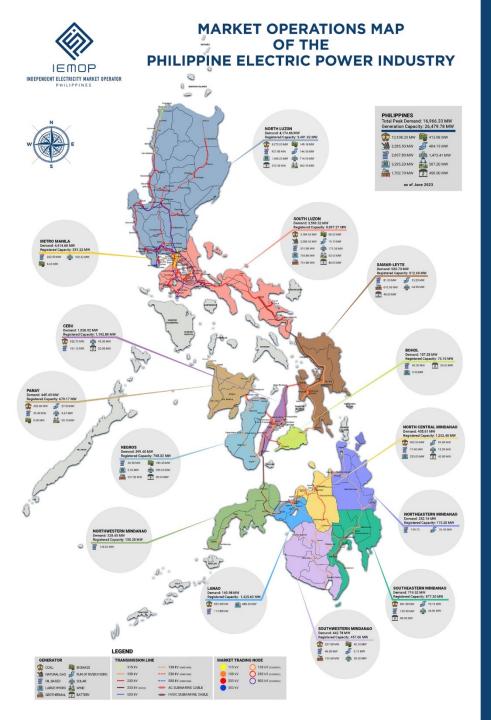
Presentation to REM 2023



INDEPENDENT ELECTRICITY MARKET OPERATOR OF THE PHILIPPINES

ROLES AND RESPONSIBILITIES





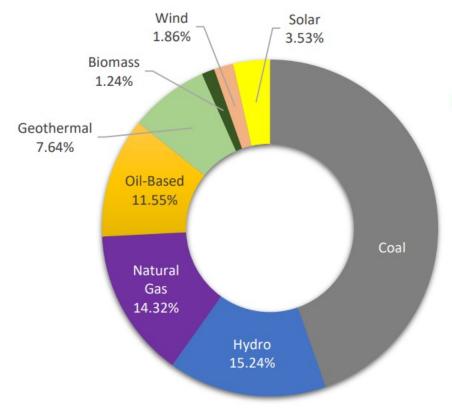
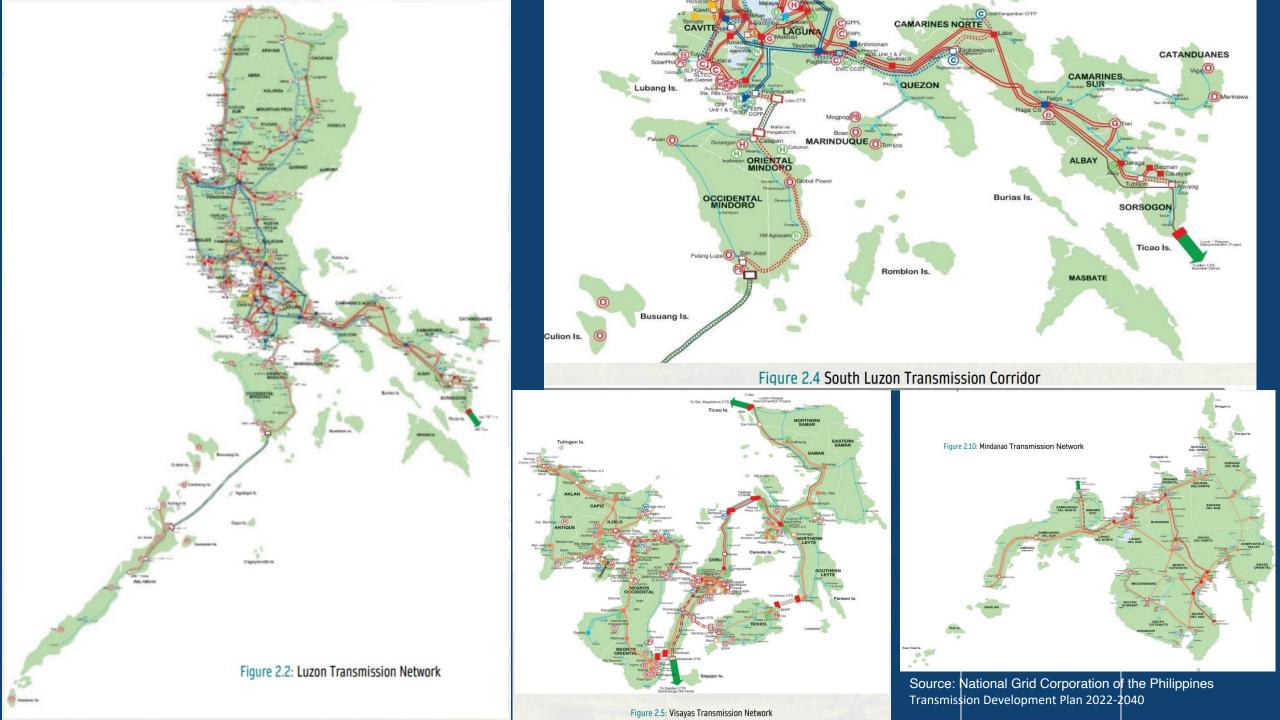


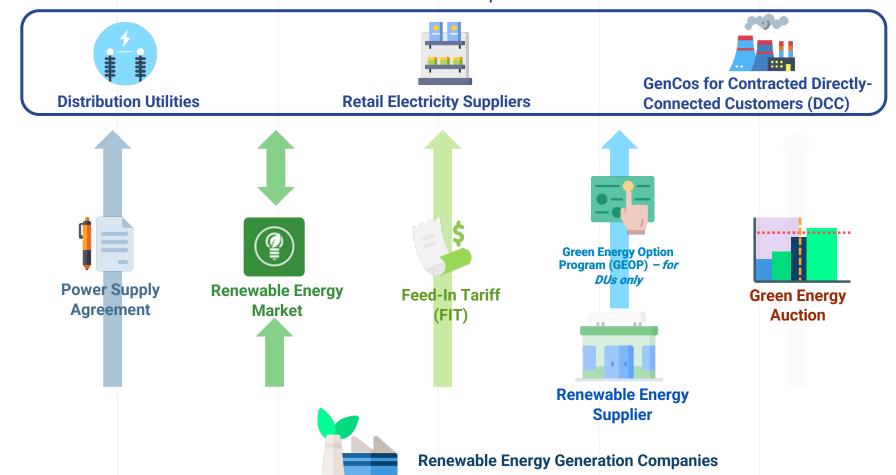
Figure 2.1: Philippine Dependable Capacity Mix (Grid-connected)



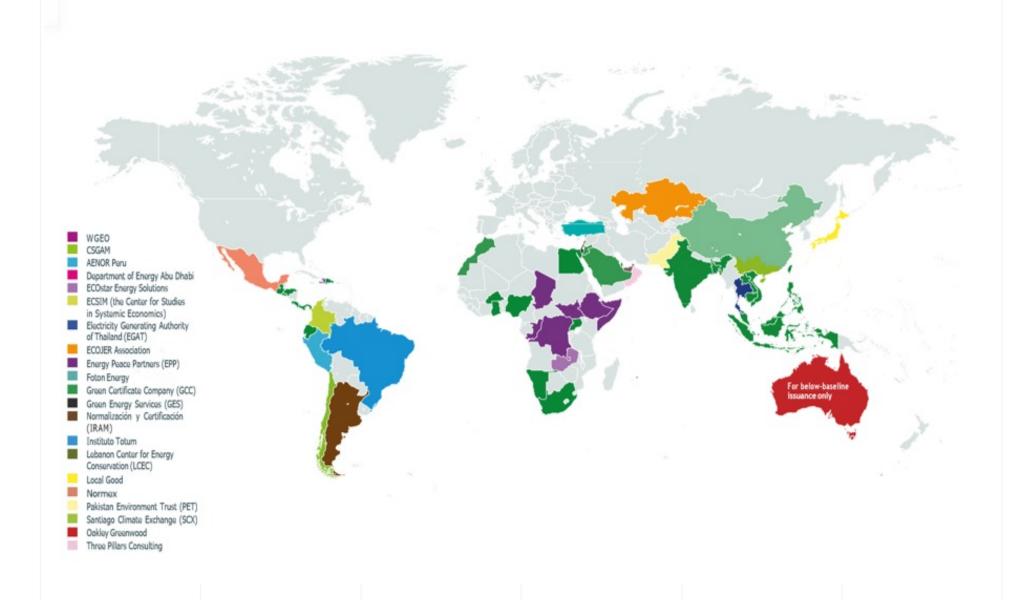
RENEWABLE ENERGY PROGRAMS IN THE PHILIPPINES



Mandated Participants

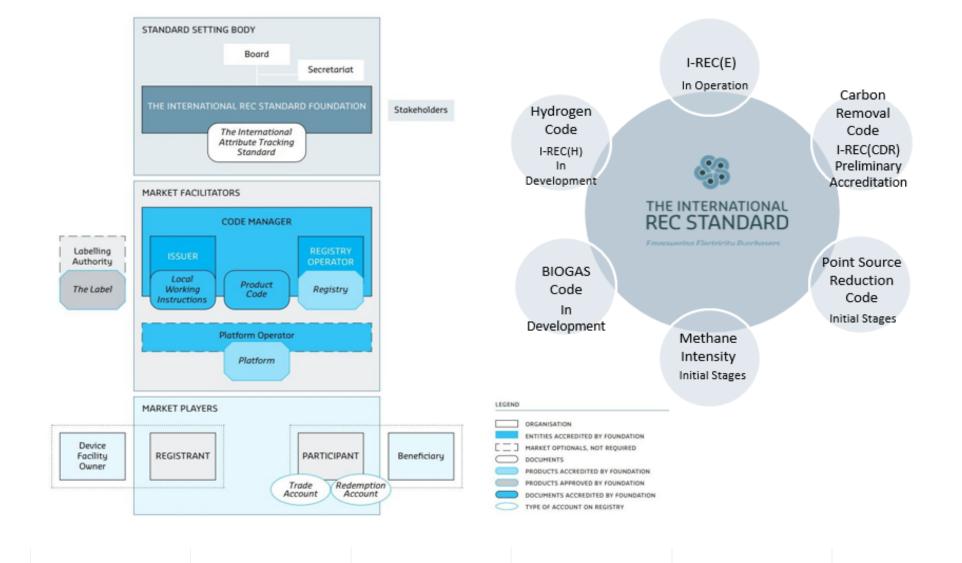








I-REC Governance structure





Regional Activities Related to Interconnection:

Regional I-REC Working Group Launched this Month

 Focused on developing MOUs that meet RE100 best practices for governments

ACE Framework for RECs in BIMP

- Brunei, Indonesia, Malaysia, and the Philippines (BIMP)
- Collecting national inputs (government and private sector) and could define regional preferences, similar to EU systems

ACEC represents private sector (supply/demand) perspectives

 Recent paper on APG highlights EAC cross-border movement needs for encouraging increased cross-border procurement and infrastructure

What Can Countries do to Facilitate interconnection?

- Bilateral MOUs and implementation agreements can drive reporting frameworks to accept transactions if:
 - Country expresses interest directly via MOU, and demonstrate:
 - Physical power movement takes place (and can be shown)
 - There are uniform EAC instruments between countries (e.g I-REC)
 - Grid mix and residual mix calculations <u>harmonized</u> and countries agree on how imports/exports are treated

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