

ENERGY
EVALUATION
ASIA PACIFIC

Enabling Local RE Development: The Case of the Rizal Wind Farm (Philippines)

Margery B. Bautista

De La Salle University

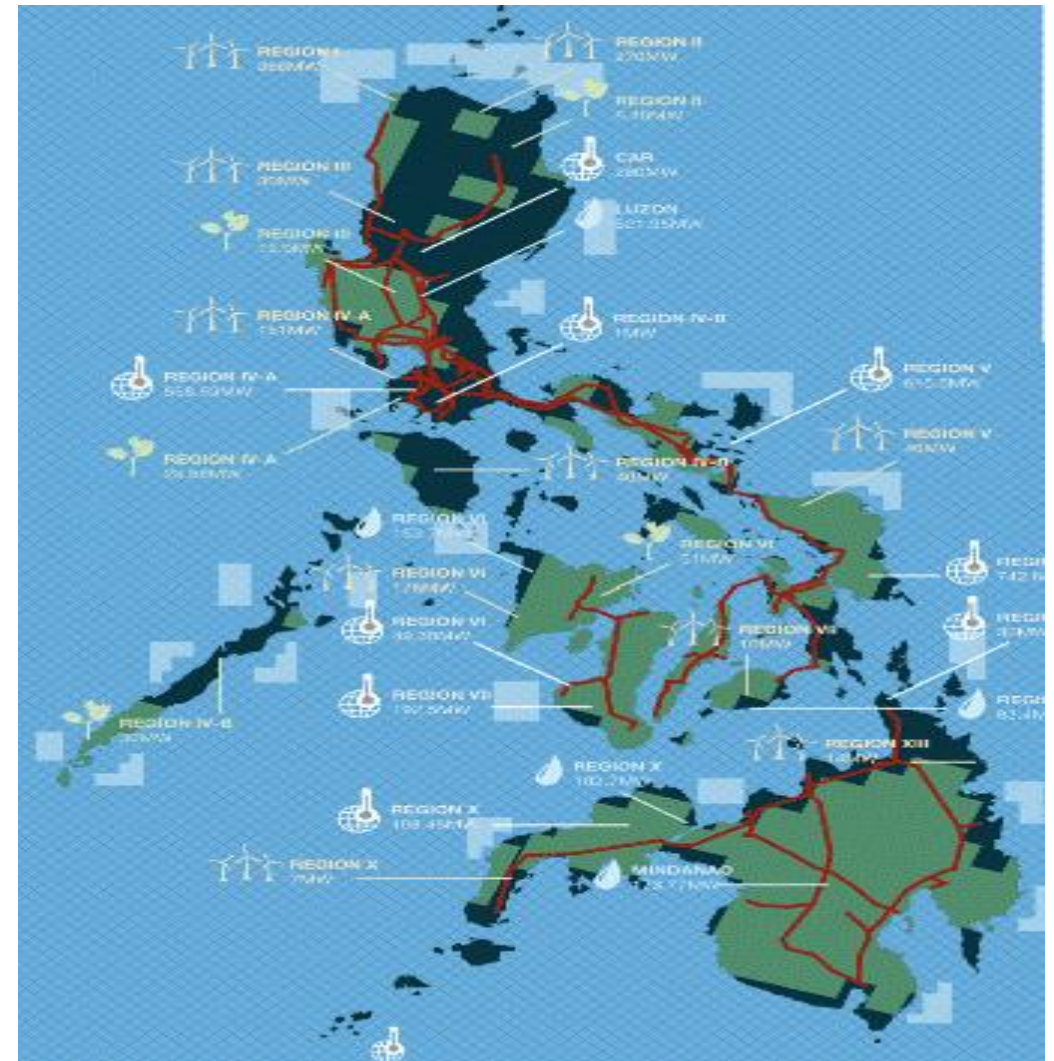
Energy Evaluation Asia Pacific (EEAP) 2019 Conference

Amari Watergate Hotel Bangkok, Thailand

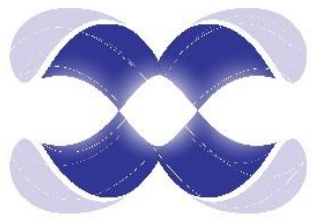
30-31 October 2019

The Paradox of Philippine Experience and Unique Case with Renewable Energy (RE)

- ❖ High capacity of RE in the energy mix (WWF, 2013, Malinao, 2011)
- ❖ Highest electricity rate
2nd in Asia (2018)
4th in the world (2013)
- ❖ RE Act of 2008
1st landmark law in SEA
- ❖ Challenges and Barriers in RE Development



Source: Green is Gold www.greenpeace.org



ENERGY
EVALUATION
ASIA PACIFIC

The Case of the Rizal Wind Farm

Pililla: **Alternative Energy Capital of the Philippines**

Why the
Rizal Wind
Farm?

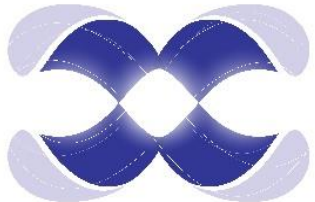
E-governance element in
land acquisition stage

Financing and Technology Transfer

The 54 MW Pililla Rizal Wind Farm (Philippines)

Source: Alternergy and Municipality of Pililla





The Logic Model Framework

INPUT

Enabling Resources

- Organization
- Partners and Networks
- Human resource
- Funding

Barriers

- Attitudes
- Lack of Resources
- Policy and Regulations
- Geography

ACTIVITY

Processes, Techniques and Tools

• Pre-Development Stage of RE

• **Development Stage**

• Operation Stage

OUTPUT

- Partnerships and networks developed
- Participation methods utilized
- Baseline profile of the community for CSR interventions created
- Local instruments utilized
- **Resolution mechanism used**
- Negotiations and agreements made

OUTCOME

- Improved understanding of the public and affected citizens regarding the RE project
- Increased delivery of services to the LGUs
- Increased of benefits to Host Communities

IMPACT

* Social

Increased livelihood options for the community

* Economic

Increased in LGU income and local employment

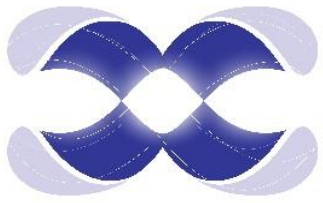
Increased economic movement

* Environmental

Promoted advocacy of LGU for RE

* Institutional

Improved governance and improved local plans and policies



**ENERGY
EVALUATION**
ASIA PACIFIC



Source: Alternergy and Municipality of Pililla

Key Activities

1. Pre-development stage

- Courtesy Meetings
- Public Consultation
- Information campaign
- LGU Endorsement
- Needs Assessment for CSR

2. Development Stage

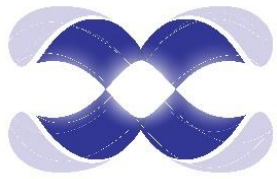
- Wind Turbine Transport
- Negotiation with Affected Household/Citizen
- Land Acquisition (Sale or Lease)
- Hiring of Construction Workers

3. Operation

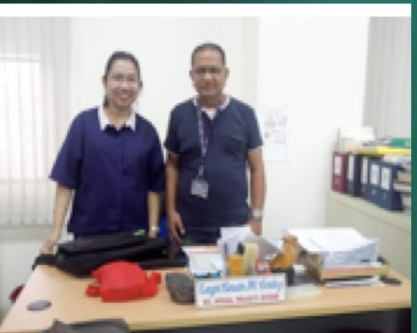
- Community Programs
- Governance Arrangements and Local Partnerships

Local RE Development Challenges and Resolution Mechanisms

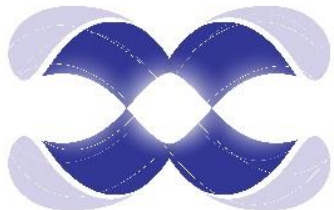
Challenges and Barriers	Mechanisms Used
Initial investor backed out, costly logistics and civil works	<u>Private investors, ADB technical assistance and local bank loans</u>
Difficult feasibility study, wind assessment and technical limitations	The project site is near the <u>national grid</u> . RE developer involved the <u>LGUs and local officials</u> from the pre-development stage until its operation
Community Perception (initial hesitance with something “new” and unawareness on RE)	Meetings and briefing with the Local Officials and consultations with <u>affected community/households</u> by the RE developer
Difficult Transfer of Wind Turbine to Pililla, Rizal (with mountainous, long archaic roads)	Cost-efficient to transport from Manila via land to Laguna area to Rizal
Initial problem on site location and land acquisition with private landowners	Assisted by the <u>LGU’s information technology tools on land mapping</u> and on <u>landowner negotiation</u>



ENERGY
EVALUATION
ASIA PACIFIC

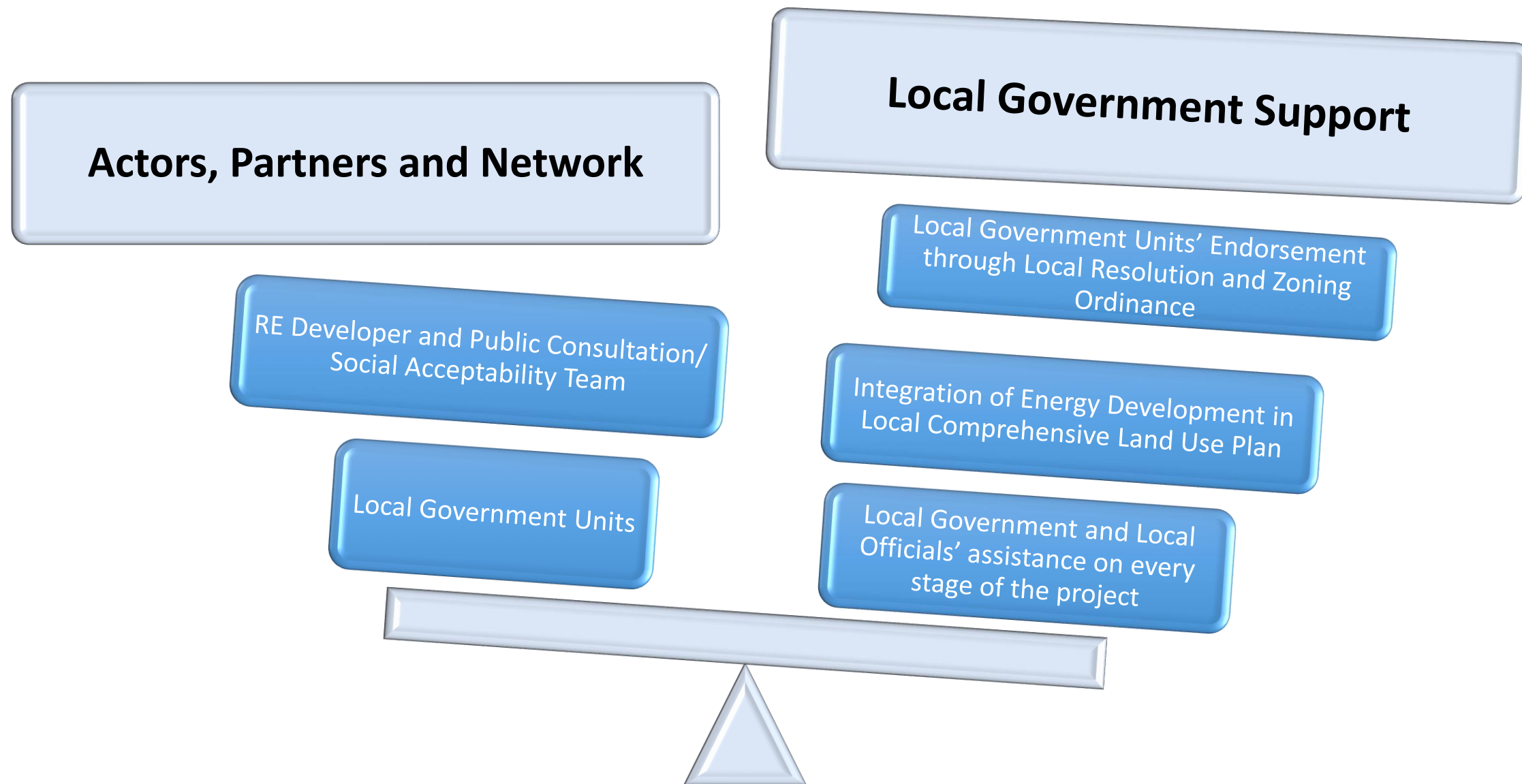


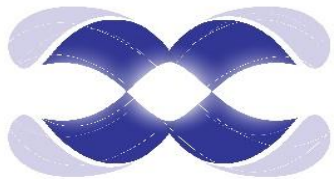
BETTER
PILILLA
MASIGLA PROGRESIBO NAGKAKA-ISA



ENERGY
EVALUATION
ASIA PACIFIC

How to enable local RE development?





ENERGY
EVALUATION
ASIA PACIFIC

Conclusion

Lessons Learned

Partnerships and collaboration (esp. financing and technology transfer)



Best Practice

Local Government Units' endorsement

Social acceptability requirement

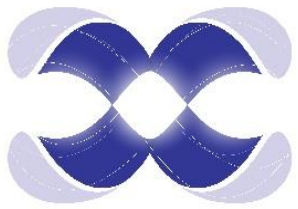


Key Success Factor

Local engagement and local
government support

Active private sector participation

Institutional and policy integration at the
local level



ENERGY
EVALUATION
ASIA PACIFIC

Contact Information

Margery B. Bautista, CPM, MA

Project Evaluation Officer V

Office of the Cabinet Secretariat

Office of the President of the Philippines

margery_b_bautista@dlsu.edu.ph

