

Accelerating Private Sector Clean Energy Investment: A Demand Side Approach

Mr. Charlie Ayco Chairman & President WeGen Energy Philippines

KEY CHALLENGES

- AVAILABILITY
- RELIABILITY
- AFFORDABILITY







A DEMAND SIDE APPROACH TO ADDRESS THE KEY CHALLENGES



Picture credit: www.wha-up.com

CASE 1: SHRIMP FARM (Mindanao)





- 704 kWp, grid tie, ground-mounted
- 12,770,018 KWH est. yield in 25 years
- 62% net savings vs. DU rate in 25 years
- Php6.45/KWH 15 years PPA (rent-to-own)
 vs. Php11/KWH projected average DU rate
- Php4.18/KWH LCOE

CASE 2: CHICKEN HATCHERY (Northern Luzon)



- 355.2 kWp, grid tie, ground-mounted
- 9,864,147 KWH est. yield in 25 years
- 52% net savings vs. DU rate in 25 years
- Php6.80/KWH 15 years PPA (rent-to-own) vs. Php9.96/KWH average DU rate
- Php4.41/KWH LCOE



CASE 3: MUNICIPAL HALL (Visayas)



- 86.4 kWp, grid tie, roof-mounted
- 2,652,242 KWH est. yield in 25 years
- 70% est. net savings vs. DU rate in 25 years
- Php6.90/KWH 15 years PPA (rent-to-own) vs. Php15/KWH DU rate
- Php4.00/KWH LCOE



WHY ROOFTOP SOLAR? WILL YOU SAVE?

Electricity is cheapest when produced at or near the place where it is consumed.

WHERE YOUR MONEY GOES*

When you pay your monthly electricity bills, your money goes to different entities in the power supply chain. In line with its mandate as a distribution utility, Meralco consolidates and collects all charges in one bill and turns them over to the corresponding entity. The distribution charge, which is the only amount that goes to Meralco, has not changed in the last 25 months.



For this reason, solar farms do not necessarily translate into lower power cost for the consumers!



ACCELERATE PRIVATE SECTOR CLEAN ENERGY INVESTMENT: DEMAND SIDE

• POTENTIAL FOR SOLAR INSTALLATION FOR SELF-CONSUMPTION

- 5 million homes/buildings x 4 kWp = 20 GW
- More resilient (no concentration risk); distributed system helps address the problem of intermittent power supply from solar
- Recent grid-forming inverters can operate when the grid is down
- Much cheaper cost of electricity at the consumer level

PROMOTE SOLAR PV INSTALLATION FOR SELF CONSUMPTION

- Encourage electric coops/DUs to install home solar systems (new way of generating and distributing power to consumers)
- End-user financing (residential, commercial, industrial)
- Higher feed-in-tariff for exported power from rooftop solar; not just Net Metering credit; tariff is at least equal to the blended cost of generation + transmission + systems loss when sold to DU
- Massive training of small solar PV designers and installers

THANK YOU!