BIOMASS POWER IN THE PHILIPPINES
REALIZING OUR TRUE POTENTIAL

PRESENTED BY
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The Philippines is blessed with an abundant supply of biomass resources.

- **Agricultural Crop Residues**
  - Rice Straw
  - Coconut Shells & Husks
  - Corn
  - Cane Leaves

- **Forest Residues**
  - Thinning Harvests

- **Agro-industrial Waste**
  - Rice Husk
  - Animal Manure
  - Bagasse
  - Cobs

- **Municipal Solid Waste**
  - Organic Waste
Our 356.1MW Current Capacity & 4,400MW Potential Capacity

**BIOMASS POWER CAPACITIES BY ISLAND GROUPS**

- **Luzon**: 130.9MW of 2,095
- **Visayas**: 63MW of 1,500
- **Mindanao**: 22.14MW of 845

**BIOMASS IN THE PHILIPPINES REALIZING OUR TRUE POTENTIAL**
With the imminent rise of energy costs for fossil fuels, Biomass will play a key role for providing renewable baseload power in the Philippines.
By end of 2019, only 8% of our potential biomass resources will be utilized for power generation.

Market opportunities and growth areas are available for the development of more biomass facilities.
Industry Challenges

**FEEDSTOCK CONTROL**
- Resource Supply Management
- Quality & Quantity Concerns

**PROJECT LEADTIME**
- 1.5 to 3 years on construction alone.
- Longer time compared to solar & wind.

**COST COMPETITIVENESS**
- Upfront capital costs and financing
- VS. Traditional & Other RE Sources

**REGULATORY COMPLIANCE**
- Strenuous & fragmented permitting process
- Complex policy hurdles on availing incentives
Breaking Barriers for Deployment

**SIMPLIFY INVOLVEMENT & COORDINATION WITH AUTHORITIES**
Local, regional, & national authority level.

**EDUCATE TO INCREASE AWARENESS & INTEREST ON BIOMASS ENERGY**
as a source of sustainable development and energy.

**INVEST IN BIOMASS R&D, MODERNIZE AGRI & WASTE SECTOR**
Determine social and/or environmental impacts of Biomass resources to further support government energy strategies and plans.
A PATH TO DECARBONIZE

- Coal substitute for base load power (also co-fire)
- Part of GHG mitigation strategies
- Utilization of waste

REJUVENATE AGRI & WASTE FOCUSED BUSINESSES

- Supporting food production & security
- Additional income to farmers

INTERNAL VALUE ADD

- Expanded countryside development
- Fuel grown by Filipinos for Filipinos.

LOCALIZED MULTIPLIER EFFECT

- Employment upside on growth-related jobs
- Positively affect local economy
SUSTAINABLE CLEAN ENERGY

POSITIVE ECONOMICAL & ENVIRONMENTAL IMPACT

ENERGY SELF RELIANCE

SOCIO-ECONOMIC BENEFITS TO HOST COMMUNITIES
Thank you!