

TRANS-ASIA RENEWABLE ENERGY CORPORATION

Gamesa   TRANS-ASIA
RENEWABLE ENERGY

TAREC's Experience

DOE Investor's Forum
Elizabeth Hotel, Cebu City
July 30, 2015

Barangay Suclaran, San Lorenzo, Guimaras, Philippines

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Harnessing Energy Literacy for Planet EARTH



Project Proponent



TRANS-ASIA
OIL & ENERGY DEVELOPMENT
A PHINMA Company



- **Trans-Asia Renewable Energy Corporation (TAREC)**
 - Established in 2003 to **develop renewable sources of energy** and pursue clean and energy efficient projects
 - Present focus in wind energy, particularly in Western Visayas and Northern Luzon
 - Wholly-owned subsidiary of Trans-Asia Oil
- **Trans-Asia Oil and Energy Development Corp. (TA OIL)**
 - Energy arm of the Phinma Group, established in 1969
 - PSE listed company with core business in power and energy resource development
- **Philippine Investment Management, Inc. (Phinma)**
 - Filipino-owned investment management company with interests in education, energy, hotels, housing, steel products and strategic consulting

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The Phinma Group



EDUCATION



ENERGY



HOTELS



HOUSING



STEEL PRODUCTS



Education

Energy

Hotels

Housing

Steel Products



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TA Oil - Generation Portfolio



**135-MW CFB
COAL POWER
PLANT
(SOUTH LUZON
THERMAL
ENERGY
CORPORATION-
JOINT VENTURE
WITH THE AYALA
GROUP)**



**116-MW BUNKER FIRED POWER
PLANT
(ONE SUBIC POWER GENERATION
CORPORATION)**



**20-MW GEOTHERMAL POWER PLANT
(MAIBARARA GEOTHERMAL, INC. -
JOINT VENTURE WITH PETROGREEN AND
PNOC-RC)**



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TAREC's 54MW SAN LORENZO WIND FARM



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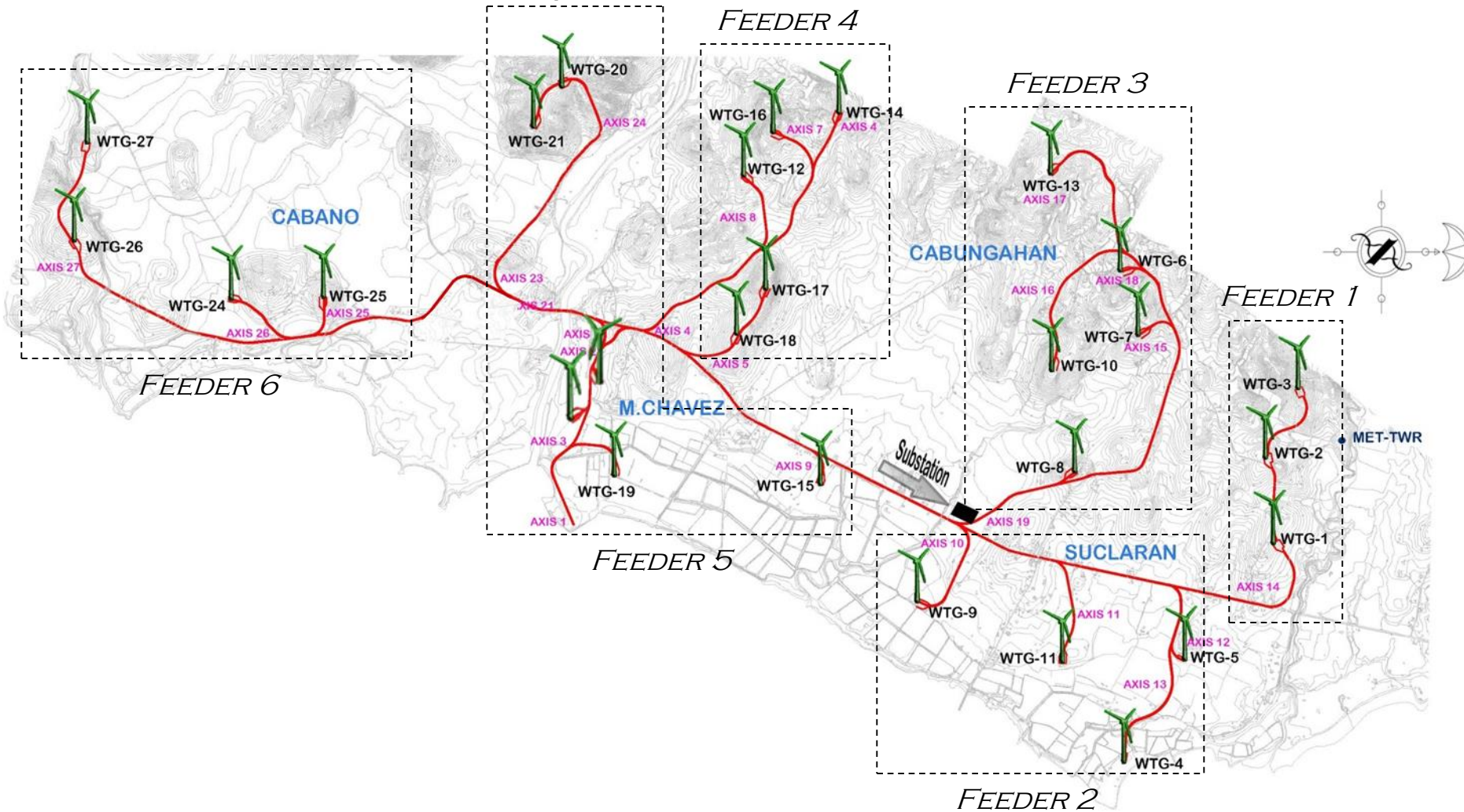
Project Profile



- **Wind Farm** (*Consisting of 27 x 2.0 MW WTGs*)
- **Wind Farm Roads** (15 kms. in total length)
- **Substation & Switchyard**
 - *60 MVA (22.8/69kV) substation in San Lorenzo*
 - *69/138kV switchyard station in Brgy. Zaldivar, Buenavista, Guimaras*
 - *138KV switchyard station in La Paz, Iloilo*
- **Transmission Line**
 - *27 km overhead transmission line from San Lorenzo to Buenavista, 69kV*
- **Submarine Cable**
 - *3 km submarine cable along Guimaras Strait between Guimaras and Iloilo*



Wind Farm Layout



Transmission Line Route



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Submarine Cable and CTS



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Construction of Submarine Cable



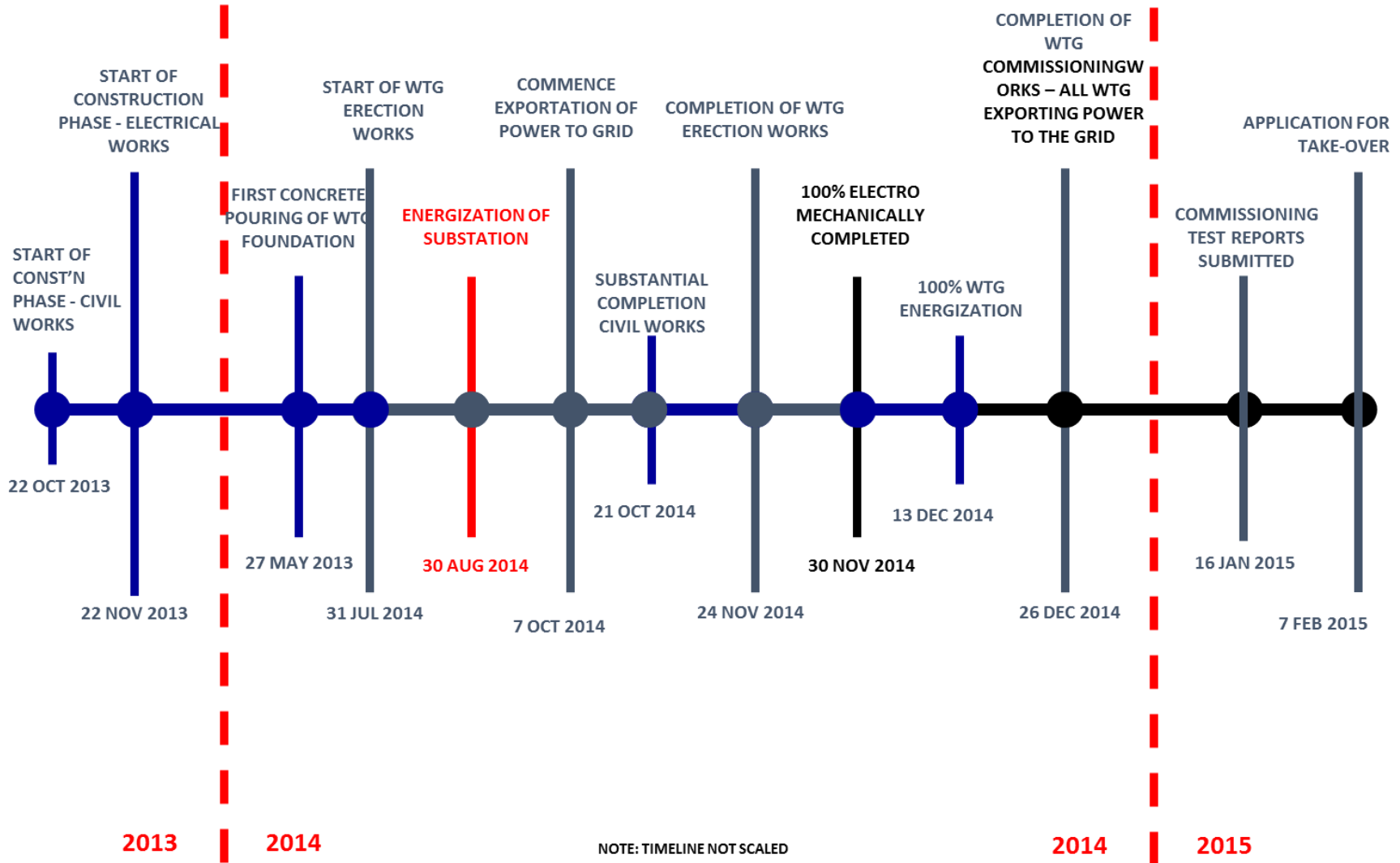
Cable Laying between Guimaras and Iloilo completed – 27 Dec '13



Submarine cable commissioned in
March 2014



Project Milestones



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Project Milestones



First Concrete Pouring of WTG Foundation – 27 May '14

27 WTG Foundation Completed – 21 Oct '14



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Project Milestones



27 WTGs Erected – 24 Nov '14

27 WTGs Electromechanically Completed – 30 Nov '14

27 WTGs Energized –
13 Dec'14



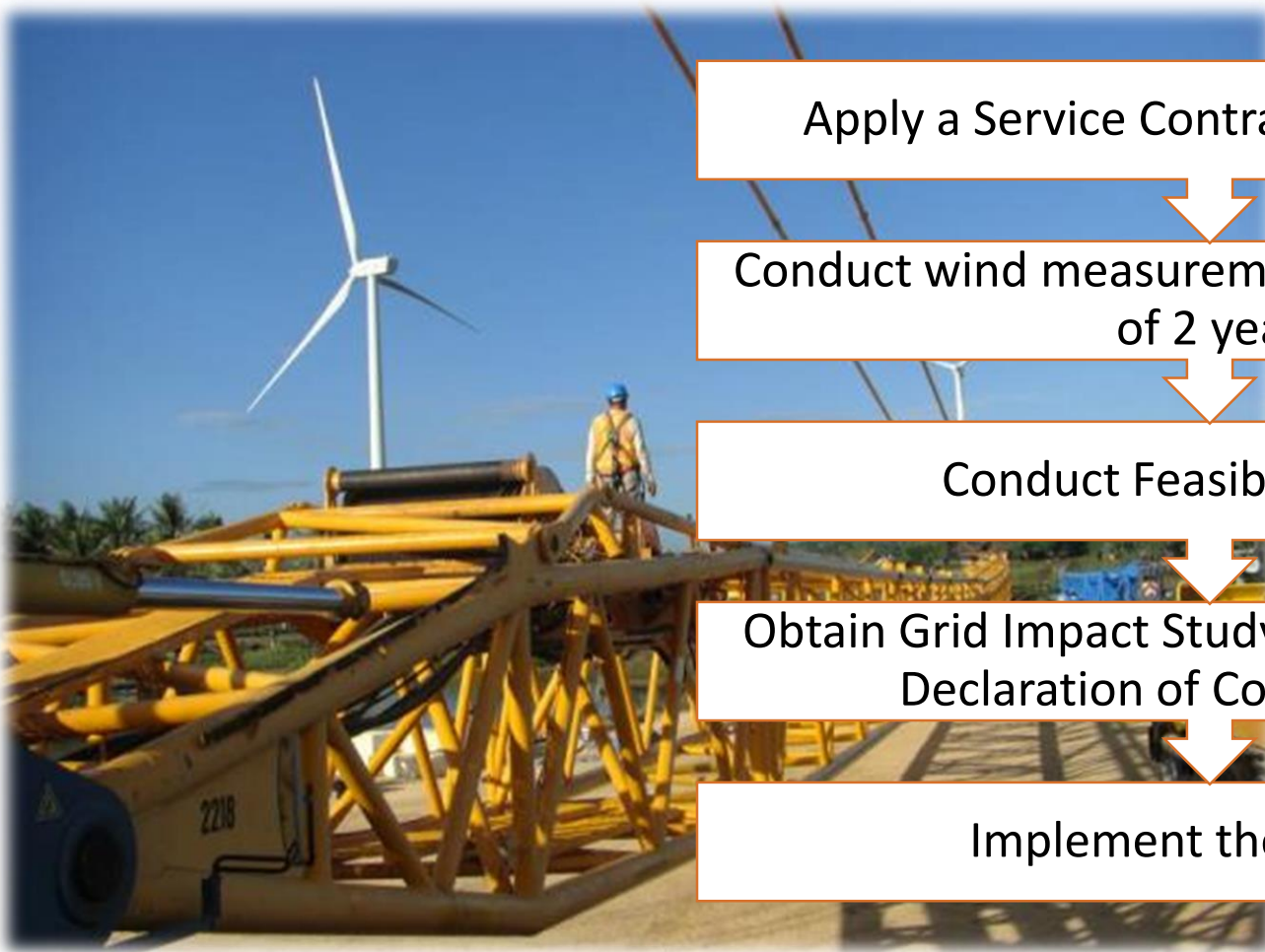
Project Milestones



27 WTGs Commissioned and Exporting Power to the Grid – 27 Dec '14



Implementing a Wind Project



Apply a Service Contract with the DOE

Conduct wind measurements for a minimum
of 2 year

Conduct Feasibility Study

Obtain Grid Impact Study (GIS), Permits and
Declaration of Commerciality

Implement the project



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Investor's Experience

- RE Policy Fine Tuning
- Challenging project financing
- Land acquisition and permitting
- LGU support critical to success
- Positive impact to the community



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Thank You

*Trans-Asia Renewable Energy Corp.
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