Garob Wind Farm

NERSA Hearings
Port Elizabeth
10 September 2015
GAROB WIND FARM
OVERVIEW
GAROB WIND FARM OVERVIEW

- 46 Turbines
- 138 MW
- Acciona 3.0 MW AW125 turbines
- Hub height of 100 m
• Meteorological measurements commenced in November 2011 following the installation of a lattice mast
• Meteorological measurements confirm high wind potential
• Updated Environmental Authorisation received from DEA in June 2015
• Evacuation via either Eskom’s Kronos or Cuprum substation both within 15km of the site
PROJECT STRUCTURE

• ENEL Green Power RSA - 60%
• KHANA - 30%
• COMMUNITY - 10%
Juwi - OVERVIEW

Track Record
juwi was founded in 1996 when it developed its first wind turbine projects in Germany. In 1999 juwi entered the photovoltaic market and then in 2001, the bioenergy market. The company started its international activities in 2000 with wind turbine and solar power projects in France and the Americas and expanded into the Southern and Eastern European markets. In 2009, juwi further expanded into geothermal energy, hydropower and e-mobility. By 2010 juwi had also added the South African, Indian, Chilean and British Markets and created a new division specializing in “Green Buildings”. In 2011 juwi started business activities in Asia.

Wind Energy
juwi has planned and constructed wind turbines in approximately 100 locations worldwide. By the end of 2015, it will have developed wind energy projects all over the world with a total capacity of more than 3,500 MW.

Solar Energy
juwi plans, constructs and operates rooftop and free-field solar power systems in every size, worldwide. It plans to construct systems with a total output of more than 3,000 MW by 2015.
ENEL GREEN POWER RSA (PTY) LTD- OVERVIEW

- Views for long term presence / complex business plan in South Africa
- Already more than 70 people working in the Johannesburg headquarters
- Awarded over 1200 MW in the REIPPPP Programme of the Department of Energy, accounting for an investment of approximately 18 bn ZAR.
- Experienced investor and subsidiary of Enel Green Power S.p.A. which in turn is subsidiary of Enel S.p.A.
1. As of December 31st, 2014

Total **capacity** by technology

- **9,626 MW**
  - Geo: 9%
  - Hydro: 59%
  - Wind: 27%
  - Biomass: 4%
  - Solar: 1%

Total **production** by technology

- **31.8 TWh**
  - Geo: 19%
  - Hydro: 44%
  - Wind: 36%
  - Biomass: 1%
  - Solar: <1%

**Country of presence**
- North America: 2.1 GW in operation, 0.4 GW under construction, 5.1 GW pipeline
- Latin America: 1.7 GW in operation, 1.0 GW under construction, 12.4 GW pipeline
- Europe: 5.8 GW in operation, 0.1 GW under construction, 4.0 GW pipeline
- Africa: 10 MW in operation, 0.5 GW under construction, 4.5 GW pipeline (Of which: 0.7 GW awarded in 2015)

**Countries of active development**
- North America: 1.7 GW in operation, 1.0 GW under construction, 12.4 GW pipeline
- Latin America: 1.7 GW in operation, 1.0 GW under construction, 12.4 GW pipeline
- Europe: 5.8 GW in operation, 0.1 GW under construction, 4.0 GW pipeline
- Africa: 10 MW in operation, 0.5 GW under construction, 4.5 GW pipeline (Of which: 0.7 GW awarded in 2015)
ENEL GROUP - GLOBAL PRESENCE

1. As of 31st December 2014
2. Among private operators

Global diversified player in more than 30 countries
KHANA

• A South African renewable energy investment company, combining a successful track record in the sector with strong BEE transactional and economic development capabilities, offering a compelling competitive advantage as the preferred local equity empowerment partner to international utilities.

• 100% South African company and a level III B-BBEE contributor enabling us to assist utilities to comply with the local black ownership requirements of the REIPPP programme.

• A broad-based black shareholder base which exceeds the local empowerment shareholding criteria stipulated by the Department of Energy.
  – Black ownership 51% (Black women 28%, Broad Based Ownership 14.5%, Black new entrants 5.1%).
  – A broad-based beneficiary trust aligned with national social objectives focused on uplifting beneficiaries that are most vulnerable through initiatives targeted at women and children own 5.1% of Khana.

• A shared vision by the founders to grow a 100% local, black controlled and managed business, to become the leading and meaningful South African participant in the REIPPP.

• Khana Energy is the result of a strategic partnership between Red Cap and Gamiro with 51% shareholding by Gamiro Investment Group and 49% by Red Cap Consult.

• An executive team with significant and comprehensive REIPPP program experience and a proven record of success complemented by strong financial and social investment capability that will ensure that the projects in which we participate are provided with a solid and competitive foundation that will significantly de-risk project execution.
PPA signing - Expected 1st Quarter 2016

Commercial Operation – October 2018 (as per bid submission)
ECONOMIC DEVELOPMENT - JOB CREATION & BLACK OWNERSHIP

JOB CREATION
- Construction – 404 jobs for South African Citizens:
  - 322 Black Citizens, 166 local,
- Operation - 100 Permanent jobs for South African Citizens:
  - 59 Black Citizens, 52 local.

EMPOWERMENT
- 25% Equity held by Black South Africans,
- 10% of which is a Broad Based Black Community Trust.
CONCLUSION

- Value for money
- International experienced utility
Thank you

Mark Tanton