



**Hopefield Wind Farm
NERSA Generation Licence Public Meeting
Thursday 1 March 2012**



AFRICAN INFRASTRUCTURE INVESTMENT MANAGERS





Overview of AIIM & Umoya

- **Umoya Energy (Pty) Ltd is the company established by African Infrastructure Investment Managers (Pty) Ltd (AIIM) in early 2008 for the development, ownership and operation of the Hopefield Wind Farm.**

- **Umoya Energy's Shareholders consist principally of Funds managed by AIIM :**
 - **African Infrastructure Investment Fund (AIIF)**
 - **Kagiso Infrastructure Empowerment Fund (KIEF)**
 - **Infrastructural Developments Environmental Assets Fund (IDEAS)**
 - **Tomlo Commodities (Pty) Ltd**
 - **Hopefield Wind Farm Local Community Company (HWFLCC)**

- **The Hopefield Wind Farm is some 67 MW in size (installed capacity) and entails an investment of approximately R1.5 billion.**

- **It has now been selected as "Preferred Bidder" under the Department of Energy's Renewable Energy IPP process (December 2011) and accordingly has applied to NERSA for a generation licence.**



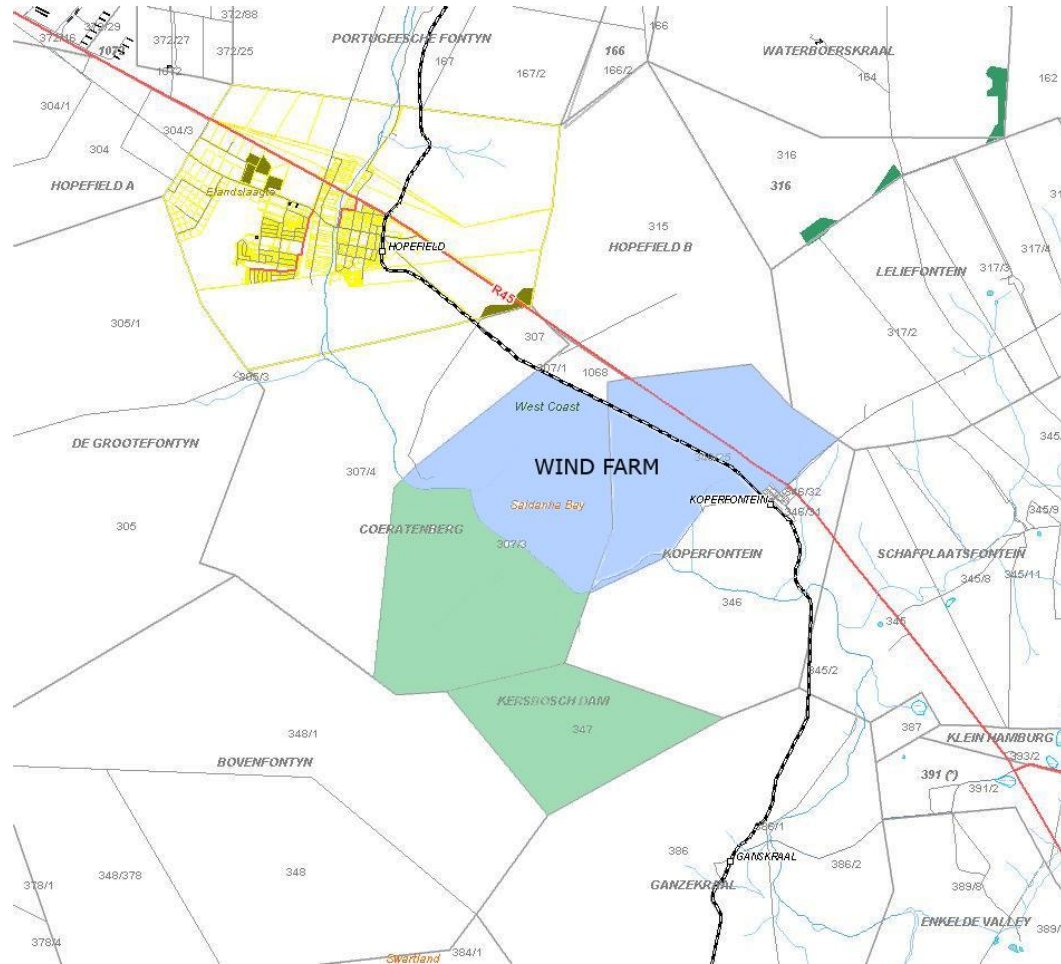
Hopefield Wind Farm

- **Located on some 2200 Hectares of farm land (Koperfontein, Coeratenberg & Kerschboschdam)**
- **Suitable for some 67MW of installed wind turbine generators - 37 No turbines @ 1.8MW each and placed on 95m masts**
- **Over 36 months of wind measurement via an 80m high mast – proven wind resource**
- **The project is within the recommended WC wind site zone (WC Dept Environmental Affairs & Development Planning)**
- **The project has received all required permits, e.g.:**
 - **Department of Environmental Affairs**
 - **Saldanha Bay Municipality**
 - **Civil Aviation Authority**





Hopefield Wind Farm





Community Upliftment Programme

- **Umoya Energy is committed to local community development and upliftment and has cemented these commitments through its tender**
- **Construction contract will have local content requirements (sub-contractors & labour recruitment)**
- **Ongoing operations will benefit the local community**
 - **Locals employed directly on the Wind Farm**
 - **Sub-contract service opportunities (e.g. provision of maintenance, security service etc)**
 - **Wind Farm consumables purchased locally where possible**
- **Environmental offset of a nature reserve of almost 900 Ha will ensure bio-diversity whilst creating ongoing employment opportunities**
 - **Alien vegetation removal – commercial firewood sub-contract**
 - **On going management – employment and training of environmental officers and wardens**



Job Creation

- **Umoya Energy will create over 1,675 person-months of employment in South Africa during the construction phase of the project and some 4,080 during operations**
 - **1 person-month = 1 job for 1 person for 1 month**
 - **1,675 person-months equates to 120 full time jobs for the 14 month construction period**
 - **4,080 person-months equates to 17 full time jobs for the 20 year operations period**
- **Preference will be given to people local to the Hopefield area, black people as well as South African citizens**





HWFLCC

- **Section 21 (Not for Profit) Company (HWFLCC) has been established to manage ongoing benefits to the Hopefield community for the life of the project (20 years) – Ms Johanna Stoffels is a Director of the HWFLCC.**
- **Assist the Hopefield Municipality with key community identified projects**
- **Support to local schools and community structures**
- **Bursary scheme to promote tertiary education for locals in fields that utilise maths and science or that further the education of maths and science**
- **Bursary scheme to promote tertiary education for locals in fields that promote conservation and the environment**
- **Initial Project – Hopefield Home Improvement Project**
- **Subsequent Projects – the Community to advise the HWFLCC**



Home Improvement Project

- **Umoya Energy would like to improve the living conditions of people living in the Hopefield community and would train and employ local people to carry out the work**
- **The addition of insulated ceilings, solar hot water geysers, and in some instances improved electrical and plumbing installations, to the approximately 900 “RDP” (or similar) houses in Hopefield will make an immediate and significant impact**
 - **significantly warmer in winter**
 - **eliminate condensation & reduce illness**
 - **reduce need for heaters (expensive & dangerous)**
 - **significantly cooler in summer**
 - **hot water to those who do not have it**
 - **reduced electricity charges**
- **Two homes in Hopefield have been upgraded as a “pilot” project and have been visited by many RDP residents resulting in an uptake of over 90%**





Home Improvement Project





HWF – Technical Aspects

- **Vestas Southern Africa (Pty) Ltd will be appointed by Umoya Energy as the EPC contractor to design and construct the Hopefield Wind Farm and as the O&M contractor to operate and maintain the Hopefield Wind Farm**
- **Vestas V100 1.8 MW turbines were chosen as the most suitable turbines for the site, providing a wind farm capacity factor of in excess of 30%**
- **The construction duration is 14 months from Commencement Date to Commercial Operation Date**
- **The Hopefield Wind Farm will yield in excess of 190 GWh per annum**
- **Eskom average residential consumption in 2010 approximates 2400 kWh per annum – hence the Hopefield Wind Farm energy output is equivalent to the needs of some 79 166 average RSA families**



Conclusion

- **The Government's Department of Energy has conducted a tender process to select a number of wind farms throughout South Africa that will be eligible for a Power Purchase Agreement (PPA)**

- **Umoya Energy is delighted that the Hopefield Wind Farm is one of the projects selected by Government as "Preferred Bidder" and we now have 4 months to conclude contractual and financing arrangements**

- **A generation licence is required from NERSA**

- **Provided that Umoya Energy is successful in these aspects and the PPA is signed with Government :**
 - **construction will begin in July 2012;**
 - **energy generation will be effective from September 2013;**
 - **the local community (50km radius) can look forward to immediate and ongoing (20 years) benefits from the Hopefield Wind Farm.**