



**CREATING OPPORTUNITIES THROUGH CLEAN ENERGY**

**Plant Operator, Khobab Wind Farm**

<b>Reporting to</b>	Senior Plant Operator
<b>Department</b>	Operations & Maintenance
<b>Job Location</b>	Loeriesfontein
<b>Travel Required</b>	Minimal, local travel to other operational sites
<b>Company Overview:</b>	
<p>Khobab Wind Farm achieved its Commercial Operations Date on schedule and on budget, as part of the third round of the South African Government’s Renewable Energy Independent Power Producer Procurement Programme.</p> <p>Khobab Wind Farm received support from the local municipality and surrounding communities during the construction phase and into operations. A number of economic development projects, aimed at contributing to sustainable community growth through financial and non-financial community development involvement. During the operations, a monetary commitment has been made to specifically developing enterprises and improving the socio-economic welfare of the community for 20 years.</p> <p>Situated in the Hantam Municipal Area, 60km north of Loeriesfontein in the Northern Cape, Khobab Wind Farm spans 3,453 hectares of agricultural land and comprises sixty-one 99m-high wind turbines.</p> <p>When operating at full capacity, the 140MW Khobab Wind Farm generates around 563,500 MWh/year of clean renewable energy per year and is expected to supply electricity to power up to 120 000 South African homes.</p>	
<b>Summary of Role:</b>	
<p>To ensure the availability of the electrical network by executing the planning, operating, maintenance, repairs and building work in accordance with policies, directives, standards, regulations, procedures, work practice, guidelines and agreements up to and including 132 kV.</p>	
<b>What you will do?</b>	
<ol style="list-style-type: none"> <li>1. Maintain: <ul style="list-style-type: none"> <li>• Inspecting, evaluating and executing non-intrusive maintenance on apparatus in the substation, control room, switch gear room, overhead &amp; underground lines, including transformers, junction and combiner boxes and back-up generator equipment <ul style="list-style-type: none"> <li>▪ Ensuring low impedance earth paths and earth resistivity by electrical testing, observations and applying remedial actions.</li> </ul> </li> </ul> </li> </ol>	

- Inspecting, replenishing and replacing the following on/in transformers, NECs, breakers, isolators: Silica gel, Insulating, cooling and arc control medium, lubrication and electrolytes.
  - Analysing and capturing current operating values on transformers, lines, AC/DC systems and feeders. (e.g. Current, voltage, loading, charging rates and temperatures)
  - Ensuring conformance to plant and equipment component alignment, contact pressure, insulation levels, anti-decay/oxidation and electrical clearance requirements.
  - Planning and executing operating and barricading on HV/MV/LV networks to ensure safe working sites (Switching, linking, safety testing and earthing).
2. Repair:
- Responds to call outs from the Senior Plant Operator / Supervisor or designated person and/or automated calls and sms notifications during abnormal conditions and power supply interruptions on a 24-hour basis to minimise network downtime on a standby basis
    - Analyse network fault indicators:
      - Interpreting, logging, resetting and reporting relay flags and indicators, breaker and fuse status and counter movements.
      - Providing feedback to the Senior Plant Operator (Supervision) or designated person via agreed means of communication.
  - Liaise with the local Eskom control centre regarding switching or trips causing 10% or more loss of electrical network capacity.
  - Operating under permission of control.
  - Rapidly restore the electrical network:
    - Planning, negotiating and executing system reconfiguration to restore supply.
    - Executing restoration within competency and resource constraints to a minimum (safe) specification to restore supply.
    - Activating additional resource requirements to execute immediate restoration
    - Being on standby
3. Build:
- Updates information systems by:
    - Completing plant, commercial operation sheets and asset register.
    - Updating data files and revising diagrams

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### 4. Health and Safety:

- Ensures a safe working environment and eliminate unsafe acts complying with statutory, including OHRVS and the wind farms requirements.
  - Executing safety inspections
  - Complying to wind farm and statutory requirements
  - Review of contractor's risk assessments and method statements, and ensure compliance thereto

### 5. Other:

- Perform and support activities on wind farm other than electrical network as required
  - Management of contractor/s as required
  - Support the Senior Plant Operator and Supervisor on wind turbine related activities
  - Ensuring that all appropriate records of operations and maintenance activities on site are complete and easily accessible as required.
  - Liaison with & reporting to Plant Manager, as needed
  - Support the Senior Plant Operator & Supervisor to ensure overall site Health and Safety
  - Manage the processes by which site data is handled and analysed, and ensuring that all proactive monitoring is carried out effectively with appropriate alarms and failures being directed via the appropriate channels
  - Daily reporting & monitoring
  - Assist with Performance, downtime and availability analysis
  - Preparing monthly reports and submit for review by required deadlines
  - Review all service/maintenance records and any issues identified.
  - Procurement functions for the site.
  - Ongoing development of systems and procedures to improve efficiency

### What we require?

The Plant Operator will have appropriate technical skills, knowledge and experience. An excellent working knowledge of MS Office Suite is required. The position requires an organised approach. The Plant Operator may have to liaise with other engineering disciplines as and when required.

### • Experience & Qualifications

- Minimum 3 years' relevant applicable work experience, switching and operating up to 132kV in similar environment will be advantages
- Competency certificate in OHRVS
- Relevant electrical trade test with N2 Certificate or equivalent technical qualification



## CREATING OPPORTUNITIES THROUGH CLEAN ENERGY

- Valid Driver's licence
- Willingness to further develop skills and experience, by further education and training

Please send your CV to Lindsay Burgess on [africacareers@mainstreamrp.com](mailto:africacareers@mainstreamrp.com) before Wednesday 3 February 2021.

The company operates in accordance with the Protection of Personal Information Act (POPI Act), Act 3 of 2013, and by submitting their personal information to us (through the application form, CV and other documentation as required during the recruitment process), candidates agree that the company may utilise their personal information as directed by POPIA.