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Renewable energy source production device registration

Metro Wind Van Stadens Wind Farm



Prepared for:
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Definitions and Acronyms

AIB	Association of Issuing Bodies
CMO	Central Monitoring Office
CRD	Central Registry Database
EECS	European Energy Certification System
IRECS	International REC Standard
MWh	MegaWatt hour – a measure of electrical energy equivalent to one hour of output at an output power of one MegaWatt.
REC	Renewable Energy Certificate
RED	Renewable Energy Declaration
RES – E	Renewable Energy Source – Electricity
PD	Production Declaration

1. Executive Summary

The Renewable Energy Declaration (RED) for Metro Wind Van Stadens Wind Farm has been prepared by Rubicept (RF) (Pty) Ltd., the device owner. The device inspection has been carried out by Nano Energy appointed as the Production Registrar for the primary device registration by the Issuing Body [RECSA](#) (The Renewable Energy Certificate market participant's Association of South Africa NPO: 096-079). This report documents the Metro Wind Van Stadens Wind Farm device registration inspection audit, RED submission and device registration along with the associated procedure followed in registration of the device in the Central Registration Database (CRD). Issuing of Renewable Energy Certificates from the device is undertaken by zaRECs (Pty) Ltd. on behalf of the RECSA.

Nano Energy (Pty) Ltd was contracted by Rubicept (RF) (Pty) Ltd. to conduct the registration of the Production Device and to undertake the following tasks:

- Production device registration inspection audit at the Metro Wind Van Stadens Wind Farm power facility in the Eastern Cape, South Africa on 6th August 2024 according to the [South African domain protocol](#) and in line with the European Energy Certification System's ([EECS](#)'s) Rules. This includes the preparation of a signed renewable energy declaration (RED) by the device owner. For this purpose a device visit was undertaken.
- Registration of the device on the Central Registry. A document confirming performance compliance of the device according to criteria in the above protocol and subsidiary documents has been prepared. The production device registration audit report and updated subsidiary wind document are attachments to this document.

This report represents the output for these tasks.

The set of definitions and criteria as set out in the European Energy Certification System's (EECS's) Rules (formerly the PRO – Principles and Rules of Operation), and the wind-based facility subsidiary document of the South African domain protocol have been followed in carrying out the registration of the Metro Wind Van Stadens Wind Farm in the Eastern Cape province of South Africa. Following the above procedures, the device has been registered as a Renewable Energy Source – Electricity (RES-E) production device in the Central Registration Database (CRD). The wind specific subsidiary document to the South African domain protocol will be updated where required based on Metro Wind Van Stadens Wind Farm and other wind power station's primary device registrations in these fuel and technology categories and to account for updates in the Rules and requirements of RECSA. The domain protocol sets the rules that are supplementary to the EECS Rules. The relevant subsidiary documents in turn augment the Domain protocol by specifying details which are additional to the Domain Protocol.

Nano Energy hereby accepts the RED deposited by Metro Wind Van Stadens Wind Farm on the 26th August 2024 subject to the requirements outlined herein. The device was registered in the CRD without deviation from protocol as per this device audit report. A duplicate of the confirmation of registration of the device is in

Appendix B: Device Registration Confirmation to this report. Production declarations received will be used for certificate issue against renewable energy production by the device. Certificates may be issued to Rubicept (RF) (Pty) Ltd. account number '30XRUBRPLT' upon lodgement of the PD for the preceding period to the Central Monitoring Office (CMO) c/o crd@zarecs.co.za.

2. Requirements of the wind facility registration protocol

The process required to be followed prior to the issuing of certificates as detailed in section C3 of the EECS Rules (being the PRO release 7.7) requires:

- Identification of the domain within which the market participants are commercially active (South Africa).
- Each RES-E generator must gain registration for the production device (see chapter 2)
- Submission of a Renewable Energy Declaration (RED) by the generator or aggregator acting on its behalf to the issuing body seeking registration as a RES-E. A draft RED for Metro Wind Van Stadens Wind Farm was prepared by Nano Energy appointed as the production registrar for the Metro Wind Van Stadens Wind Farm device. The RED was signed and lodged with the production registrar on 26th August 2024. The RED was accepted following the scheduled site inspection visit. The RED is included as Appendix A. to this report.
- Assignment of a unique identifier to the production device.
- An additional requirement has been included to ensure that suitable reporting processes and data collection are in place at the device to ensure suitable transfer of this to the CMO to enable the issuing of certificates.
- Acceptance of the RED by the Issuing Body.

2.1. Domain definition

For the purpose of these activities the domain has been defined as the South African, both grid and off-grid, electrical distribution and transmission networks.

2.2. Production device identifier

The EECS PRO suggests an 18 digit device reference be recorded in the Central Registry Database (CRD). An algorithm has been chosen to assign unique South African device references. The device registration shall be composed of:

- The CMO Company prefix is used as the CMO ID ('0000027')
- The coding identifying the production device ('00000106'), where '106' is a numeric digit assigned by the CMO,
- an encryption integer as a check for reference authenticity ('9').

The device reference for the Metro Wind Van Stadens Wind Farm is therefore:

'000002700000001069'

2.3. Reporting process and data collection

The declaration of production from a device for the purpose of issuing certificates must make a statement of the volume of electrical output. The statement of electrical production is to be deposited with the CMO c/o crd@zarecs.co.za and is referred to as a Production Declaration (PD).

The issuing body must satisfy itself that systems and procedure are in place at the device or facility for data of a suitable resolution to be captured and transferred to the issuing body in accordance with preparation of monthly PDs.

The declaration of production from a device for the purpose of issuing certificates must make a statement both of the volume of electrical output by the device and of the proportion of electricity which has been generated from renewable resources. The statement of electrical production is to be deposited with the Issuing Body monthly and is referred to as a Production Declaration (PD). It is furthermore required that this proportion be calculated by reference to the energy content of the renewable and non-renewable fuels and own consumption where appropriate. This is accomplished by the device owner preparing and submitting a Combustion Declaration (CD) to the Issuing Body. Wind facilities are not required to submit a CD. Own consumption is recorded in the monthly PD. The issuing body must satisfy itself that systems and procedure are in place at the device or facility for data of a suitable resolution to be captured and transferred to the issuing body in accordance with preparation of monthly CDs and PDs. The following documentation will therefore be used for the process of issuing certificates to the device owner's account in the CRD:

- Half-hourly monthly production data.
- Total monthly production in MWh.

3. Metro Wind Van Stadens Wind Farm registration inspection

An inspection of the production device was carried out by David du Preez. He was ably assisted in this activity by Mr. Nceba Nkosi (Site Manager) and John McGillivray (Director). The issuing body appoints the production registrar for the purpose of initial and periodic device inspections. For the purpose of this registration Nano Energy serves as the production registrar for the Metro Wind Van Stadens Wind Farm. The inspection was conducted on the 6th August 2024 between 8:00 and 09:50 and final documents lodged after inspection completion.

Mr. Du Preez met with Mr Nkosi and Mr McGillivray who have confirmed familiarity with the requirements for registration, submission of the relevant information for completion of the RED and monthly submission of Production Declarations for the issuing of certificates by the CRD operator.

At the device inspection (and per the single line diagram) it was determined that auxiliary consumption occurred behind the meter and power imported from Eskom for internal consumption is measured through the bi-directional Ion meter (Main and Check). As such the main and check Ion meters measure the net renewable energy produced and auxiliary and self-consumption readings are not required for purposes of the PD.

4. Lodging of RED and CRD capture

The RED as in Appendix A. Renewable Energy Declaration (RED) was received and accepted by Nano Energy on the 26th August 2024.

The device details have been captured in the Central Registration Database. The protocols outlined in EECS Principles and Rules of Operation (PRO), RECSA Domain Protocol for Republic of South Africa, and South Africa Wind domain protocol components have been adhered to in the database and associated system.

The above constitutes registration of the device for the purpose of the South Africa renewable energy certificate market and which is in line with the EECS, RECSA and Wind subsidiary document of the South African protocol.

5. PD and Issuing of certificates

The Production (PD) declaration is to be lodged monthly with zaRECs (Pty) Ltd. by the 7th of the month following end of the monthly period in question or as required for batch issuances.

5.1. Production declaration

The Metro Wind Van Stadens Wind Farm (RES-E generator) will provide, on a monthly basis, to the CMO, the following:

- Half-hourly monthly production data.
- Total monthly production in MWh.

5.2. Certificates issued

Production declarations received allow for certificate issue against renewable energy production for capture in the CRD. Certificates are traded separately from physical power.

5.2.1. CRD data formats

The above data is captured in the CRD. The formatting of the production device code, production device-based coupon and coupon number, meter information matrix and code description tables are declared for the purpose of verification of their inclusion in the CRD.

6. Conclusion

Nano Energy hereby accepts the RED deposited by Rubicept (RF) (Pty) Ltd. on the 26th August 2024 subject to the requirements outlined herein. The device was registered in the CRD without deviation from protocol on 28th August 2024. A duplicate of the confirmation notice confirming registration of the device is included as

Appendix B: Device Registration Confirmation to this report. Production declarations received will be used for REC issue against renewable energy production by the device. Certificates may be issued to the Rubicept (RF) (Pty) Ltd. CRD account number '30XRUBRPLT' from 28th August 2024.


Appendix A. Renewable Energy Declaration (RED)

Renewable Energy Declaration by MetroWind Van Stadens Windfarm

Rubicept (RF) Pty Ltd (Reg.no. 2011/123905/07) wishes to receive Renewable Energy Certificates for the Technology-based electrical output from MetroWind Van Stadens Windfarm. Registration is therefore sought for MetroWind Van Stadens Windfarm in the South African Domain. This Renewable Energy Declaration (or RED) is prepared with the intention of declaring that the installation fulfils the criteria set out in the South African Domain Protocol and relevant Subsidiary Documents.

Period of validity: 24 months from date of registration on the Central Registration Database (CRD). After this time a RED will be re-submitted. Failure to do so will result in cessation of certificate issue for this Production Device. The criteria and the procedure for the RED may change over time.

- A.) Name: MetroWind Van Stadens Windfarm
 Production device code: 00000027000001069
 Address: 39 Loyd Road, Walmer, Port Elizabeth, Eastern Cape, South Africa
 Responsible person: John McGillivray
 Director
 Telephone: +27 (0) 713871008
 +27 (0) 410200600
 Email: john@africoastenergy.co.za
 Production Registrar: Nano Energy (Pty) Ltd.
 Responsible person: Mr. Jason Schäffler
 Telephone: +27 (0)72 444 3445
 Email: jason@nano.co.za
registrar@nano.co.za
- B.) CRD Account Number: 30XRUBRPLT
 C.) Location of device (co-ordinates): -33.961901, 25.246282
- D.) Location and detail of export and import meters:
 Generator internal metering panel.
 Main meter ser # PN/1308A019/01
 Check meter ser # PN/1308A020/01
- E.) Possible Sources of Fuel: Wind
- F.) Type of generation technology: Energy Codes: F01050100
 Technology Code: T020001
- G.) Installed Capacity: 27 MW (27 MVA)
 H.) Date of commissioning: 7 FEBRUARY 2014
 I.) Public support schemes: REIPPPP BID WINDOW 1
- J.) It is hereby guaranteed that:
 Rubicept (RF) Pty Ltd will not during the period of its Registration and for the same unit of electrical energy receive tradable certificates which represent the benefit of renewable electricity generation from both RECs and another similar system and can be exchanged for financial support
- K.) A diagram showing the Production Device, the location of export meters used for metering its generation and of transformer substations at the plant site. If there are generating auxiliaries for the Production Device and/or import meters for metering their demand these shall be also shown on the diagram.


 Authorised person
 Director
 Rubicept (RF) Pty Ltd – MetroWind Van Stadens Windfarm

26/08/2024
 Date.

Appendix B: Device Registration Confirmation

28 August 2024

This serves to confirm that:

Metro Wind Van Stadens Wind Farm



Has satisfied¹ the criteria in the wind-based generation facility Subsidiary Document of the RECs Domain Protocol for registration as a:

Renewable Energy Source Electricity Production Device²

Device Number: 0000027000001069

¹ The registration is valid for a period of 24 months from the time of device registration.

² The production device registration audit report and relevant technology-based subsidiary document of the Domain Protocol are attachments to this registration.

Appendix C: Production Declaration Format

The Metro Wind Van Stadens Wind Farm (RES-E generator) will provide, on a monthly basis, to the CMO, the following:

- Half-hourly monthly production data.
- Total monthly production in MWh.