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DEEP RIVER WIND ENERGY FACILITY (WEF): EASTERN CAPE PROVINCE

COMPARATIVE VIEWSHED ANALYSES

Dear Sir/Madam

Following the assessment of 12-month's wind data it has become evident that in order for the wind energy facility to produce at an Economic Viable Rate, VentuSA Energy is now proposing to:

- Increase the maximum hub of the wind turbines from 80m to a maximum hub height of up to 120m
- Increase the rotor diameter from 90m to a maximum of 116m.

Please see attached map for a Comparative Viewshed Analysis that addresses the potential visual exposure of both the original wind turbines and the proposed amended (increased dimensions) wind turbines.

The Comparative Viewshed Analysis indicates the potential visual exposure of the wind turbine infrastructure at 80m hub-height and the potential additional visual exposure at 120m hub-height. Although the extension of the wind turbines represents a theoretical 33% increase in turbine height, the potentially visible surface area increases by only 17%.

The total surface area potentially visible (utilising the 80m hub-height wind turbines) is 111km² and is expected to increase by 19km² when utilising the 120m hub-height option. The **area of additional visual exposure** is not expected to encompass any additional sensitive visual receptors (observers at residences and homesteads within the region), as indicated in the Visual Impact Assessment report.

The proposed increase in wind turbine dimensions is also not expected to significantly alter the influence of the WEF on *areas of higher viewer incidence* (observers travelling along national, arterial/main or major secondary roads within the region).

The proposed increase in turbine height is consequently not expected to significantly influence the anticipated visual impact, as stated in the original Visual Impact Assessment report.

Kind regards

LM du Plessis (PrGISc)

Director: MetroGIS (Pty) Ltd.