



Islandmore Wind Farm

Environmental Impact Assessment
Report

Annex 12.5: Operational Wind
Turbine Noise Reduced Modes

Islandmore Wind Farm Limited



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Islandmore Wind Farm – Noise and Vibration

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The operational noise reduced modes that have been assumed for the assessment of the Vestas V162-7.2MW and the Vestas V136-4.5MW turbines are set out in the table below. Where 'Norm' signifies that the turbine is to operation in their normal unconstrained mode.

Turbine ID	Type	Operational mode for given standardised 10m wind speed m/s									
		3	4	5	6	7	8	9	10	11	12
T01	V162	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm
T02	V162	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm
T03	V162	Norm	Norm	Norm	Norm	SO1	SO1	SO1	SO1	SO1	Norm
T04	V136	Norm	Norm	Norm	SO11	SO11	SO11	SO11	SO11	SO11	Norm
T05	V136	Norm	Norm	Norm	SO11	SO11	SO11	SO11	SO11	SO11	Norm
T06	V136	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm
T07	V136	Norm	Norm	Norm	Norm	SO11	SO11	SO11	SO11	SO11	Norm
T08	V136	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm
T09	V136	Norm	Norm	Norm	Norm	SO11	SO11	SO11	SO11	SO11	Norm
T10	V136	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm	Norm

The above noise reduced modes provide one possible example operational configuration where the noise limits are not exceeded, there are many different alternative configurations that can be applied to ensure the noise limits are not exceeded. The required noise reduced modes will be confirmed by the manufacturers for site-suitability. The final mitigation in terms of the requirement of noise reduced modes will be based on the final candidate turbine selected and the noise modes confirmed to be available



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