

1 TRAFFIC AND TRANSPORTATION

1.1 Introduction

This report includes a complete assessment to the route plan and approach for the road transport of Vestas V90 Wind Turbines (Blades, Nacelles, Tower sections, Hubs, Foundations and additional components).

The preferred route is confirmed within this report as from the Port of Entry, Great Yarmouth, Norfolk.

Access from Great Yarmouth Dock is unhindered. The route planning report is specific to the route from the B1159 towards Hemsby.

The Planning of this route has confirmed a number of road modifications that are required and are detailed within the route evaluation section of this report with photographic reference. Supporting those requirements for road modification are specialist Computer Aided Design (CAD) drawings.

1.2 Scope

The scope of this Route Planning, Approach and Access Report is specific for the Hemsby Wind Farm project to transport turbine components from the Port of Discharge (Great Yarmouth, Norfolk) to the Hemsby Wind Farm site. It is conclusive to those requirements as known to MDF Transport at the time of production of this report. Those requirements are as agreed with the customer (SLP Energy).

1.3 Transport Specifications

The following tables of requirements and specifications are in support of Vestas V90 turbines, and are per component.

1.3.1 Nacelle - 2 axle, Bed 4 axle modular low loader trailer with remote steering

Rigid / component length	11.10 M
Overall Vehicle Length	42 M
Width	3.6M
Height	4.4M
Max Vehicle Weight	119 Tonnes
Max Axle Weight	12.75 Tonnes

1.3.2 Blades - 3/4 axle triple extending blade trailer with remote controlled steering

Rigid / component length	44M
Overall Vehicle Length	49.5 M
Width	3.15 M
Height	3.8 M
Max Vehicle Weight	39 Tonnes
Max Axle Weight	8.5 Tonnes

1.3.3 Hub - 3 axle semi low loader

Rigid / component length	6.0M
Overall Vehicle Length	16.5
Width	2.7 M
Height	4.5 M
Max Vehicle Weight	44 Tonne
Max Axle Weight	11.5 Tonnes

1.3.4 Bottom Tower Section - 5 Nooteboom clamp lift adapters

Rigid / component length	19.2 M
Overall Vehicle Length	16.5 M
Width	4.2 M
Height	4.6 M
Max Vehicle Weight	90 Tonnes
Max Axle Weight	12.5 Tonnes

1.3.5 Mid Tower Section - 5 Axle extending semi low loader with remote controlled steering

Rigid / component length	29.0 M
Overall Vehicle Length	33.4 M
Width	3.49 M
Height	4.6 M
Max Vehicle Weight	85 Tonnes
Max Axle Weight	12.5 Tonnes

1.3.6 Top Tower Section - 4 axle triple extending trailer with remote controlled steering

Rigid / component length	29.0 M
Overall Vehicle Length	33.4 M
Width	2.82 M
Height	3.8 M
Max Vehicle Weight	63 Tonnes
Max Axle Weight	12.5 Tonnes

1.3.7 Foundation Ring – 4 axle semi low loader with 2x foundation rings

Rigid / component length	4.55 M
Overall Vehicle Length	16.5 M
Width	4.55 M
Height	3.44 M
Max Vehicle Weight	38 Tonnes
Max Axle Weight	11.5 Tonnes

1.3.8 Control Cabinet & Transformer – sliding roof curtain sider

44 Tonnes	Del in sliding roof Curtain sider for weather protection
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1.4 Component Delivery Map and Route



1.4.1 From Great Yarmouth Docks:

T/L onto South Denes Road
Continue to roundabout
2nd exit off Roundabout onto A149 Lawn Avenue/Caister Road
1st exit off Roundabout onto Caister Bypass
2nd exit off roundabout continuing Caister Bypass
2nd exit off roundabout onto Scratby Road changing to Yarmouth road/Kings Way
T/L onto The Street changing to Ormesby Road
Continue onto North Road – Site entrance is then approximately 200 yards on the left.

1.5 Route Evaluation & Route Maps

1.5.1 Roundabout Caister Bypass

No problem to navigate roundabout with turbine components

'Manual override trailer steering to be used'



1.5.2 View looking back on Yarmouth Road

Wide open road accessible for wide turbine components.

No obstructions on this road.



1.5.3 Kings Way leading to The Street

Alterations to be made to this junction.

Blade trailer with over hang to over sail verge on right hand side.

Manual trailer rear steering will need to be used



1.5.4 The Street junction

Keep left bollards to be removed

Soft tarmac too be placed on edge of traffic island to minimise damage to trailer tyres

Street furniture and road direction signs to be removed on right hand side of junction.

See drawing number MDF134A & 134B



1.5.5 The Street leading to Ormesby Road

Blade trailer wheels required to run over grass road edge on left hand side.

Type 1 material or steel plates to be laid.



1.5.6 Ormesby Road leading to North Road

To move all large turbine components on this road all parked cars will need to be removed.

Telecom lines on date of survey give height clearance of 5mts
These need to be rechecked before construction commences



1.5.7 North Road

Wide open road to width of 6.7m, turbine component vehicles can navigate this road with no problem.



1.5.8 Entrance to turbine 2 - 4

Running beside power lines.

Construction of site roads required to incorporate splay to provide vehicles to navigate entrance to site with larger turbine components.

Note power lines running along possible site road to be weary of.



The survey was only conducted to the site entrance as at the time of survey no further information was available.