

Transportation and Access

Arcus' in-house Engineering Team has extensive experience in the assessment, design and delivery of transportation infrastructure for projects ranging in scale from single turbine projects to major developments and road schemes of national significance.

As a result we are able to offer the following services:

- Traffic surveys
- Road infrastructure condition inspections
- Traffic assessments and EIA
- Abnormal load route assessment
- Topographical surveys
- Detailed design of road improvement works
- Access junction design
- Transport management plans
- Development infrastructure design

Arcus has invested in the latest CAD software to support the assessment and design of infrastructure in 2D and 3D which ensures studies are robust, and designs support the EIA and construction process.



Selected Projects

Doraville Wind Farm, Northern Ireland

Arcus provided all access and transportation assessment services for this major development which included over 15 traffic survey points, and an abnormal load route assessment for 50 metre blade machines within a rural and constrained environment. As part of the service an extensive topographical survey was undertaken to allow the swept path analysis to consider points of constraint in 3D and determine where both horizontal and vertical alterations to existing roads infrastructure are required.

Gaoth and Humbleburn Wind Turbines

Arcus, as Owner's Engineer, was required to develop the abnormal load route assessment undertaken at planning stage, and prepare a Transport Management Plans for agreement with the local authorities. Works included off site road improvements and development of method statements to accommodate the movement of delivery vehicles on tracks which exceeded the normal envelope of acceptable gradients

Dumfries and Galloway Wind Farm sites

Abnormal load route assessment and transport EIA for a cluster of 3 wind farm developments. Two of the sites would have the candidate turbine determined by the constraints on the existing road network. As a result, Arcus was required to establish accurately the points of constraint through topographical survey, and analyse in detail the vehicle permutations that could be used in delivery of plant and equipment.

Beinneun Wind Farm

Detailed design of access junctions from the Trunk Road Network, and design in 3D of internal tracks and crane pads for 25 turbine development. Design was based on the worst case candidate turbine, and was developed to a level of detail to discharge planning conditions including final micro-siting.

