

Scout Moor Wind Farm

Client	Peel Developments
Contractor	McNicholas Construction Services
Consultant	Scott Wilson
Area	500,000m ²

In brief

CMS conducted a value engineering exercise on behalf of McNicholas Construction, replacing the geogrid originally specified for Scout Moor Wind Farm with the more cost effective CMS Secugrid® range. This was used to provide stable foundations for 26 turbines and 12km of roads.

Project scope

Following a review of the original geogrid specification, CMS Secugrid® was identified as a more efficient solution. For the 4.5m wide access roads, two layers of 4.7m wide Secugrid® 40/40 are rolled along the length of the road. The two geogrids are separated by 300mm of compacted 6F2 graded stone and finished with 700mm on top. In contrast, at 4m wide, the geogrid originally specified had to be rolled across the width of the road and folded back on itself to encapsulate the stone. This time-consuming process meant the project immediately fell behind schedule – until Secugrid® was identified as an alternative solution which put the project back on track.

CMS also achieved cost savings on materials through a technical review of the geogrid specification to support the turbines. Rather than the uniform design originally specified for the site different strengths of geogrids from the wide range of CMS Secugrid® were installed, according to the specific ground conditions.

Benefits

- Availability of wider Secugrid® material enabled faster install on roads
- Range of Secugrid® thicknesses meant more efficient design achieved
- Ease of installation resulted in contractors working ahead of schedule
- Cost savings achieved on product purchase and construction method
- CMS' ability to stock the full range of Secugrid ensured it could react promptly to requirements on site



CMS Secugrid® was specified as a more cost effective and efficient reinforcement solution on difficult terrain.



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