



## Case

# STUDY

### TENAX

Muirhall South Wind Farm  
Access Tracks



**MARKET SECTOR:**  
Commercial



**LOCATION:**  
Muirhall Farm, Auchengray  
Lanark, ML118LL



**CONTRACTOR:**  
Jones Bros Ruthin Civil  
Engineering limited

## The BACKGROUND

**Muirhall South is an extension of the existing Muirhall Wind Farm in South Lanarkshire.**



## Our Client's REQUIREMENTS

Construction of 1.5km access tracks and crane hardstandings for the installation of three additional turbines.

**The scheme comprised the construction of 1.5KM access tracks and crane hardstandings for the installation of three additional turbines.**

The proposed turbines have a height of 147m making them amongst the tallest onshore turbines in the United Kingdom.



## Our Value Engineered SOLUTION

**The underlying soils were very weak organic soils and in order to accommodate both construction traffic and material deliveries a reinforcement solution was required.**

The introduction of a geogrid directly onto the formation allowed the thickness of granular material to be reduced whilst still providing the required bearing capacity. This is achieved by spreading the loads across the width of the geogrid/subbase and ensuring that deformations are minimised.

Jones Bros elected to use Tenax HM3L this provided a range of benefits to the construction.

- HM3L is produced in a 5.3m wide roll which eliminated the need to cut and overlap geogrids to achieve a 4.5m running width.
- HM3L is an extruded Polypropylene geogrid with excellent resistance to installation damage.
- HM3L has a large aperture ideal for integrating with 6F2/6F5 soils.

**“Our designer was keen to utilise an extruded geogrid, the Tenax HM3L was readily available and provided a host of benefits to speed up our construction programme.”**

**MIKE O'CONNER**  
Project Manager

