



Wind Farm Project Achieves Time and Cost Savings with Tensor Geogrid

Golden Hills Wind Farm

 Wasco, Oregon

CLIENT'S CHALLENGE

Access roads needed to be constructed to support heavy turbine loads with a tight schedule for completion. The project site consisted of loess deposits in an agricultural setting. Limited water access for the moisture treatment of the aggregate layer also posed a challenge. The original design section called for 10 inches of AB over geotextile with subgrade compaction.

TENSAR SOLUTION

The Tensor representative visited the project site to perform DCP testing and confirmed the soil conditions before and after subgrade compaction. Next, a design analysis was performed utilizing the ACOE's PCASE design software. The Tensor geogrid design reduced the section to 6 inches of AB over Tensor geogrid and maintained the required performance. This solution also reduced the water usage, required material and saved valuable time. Approximately \$630k in construction costs were saved. This also resulted in several environmental benefits like avoiding pollution of nearby water sources.

Contractor

Mortenson

Installation: 2021

Value: Geogrid design reduced aggregate by 50%, saved 60,000 gallons of water, saved 700 dump truck trips and reduced CO₂ by 26,600 lbs.

