

ENERGY CONSTRUCTION CASE STUDY

Spotsylvania Solar Farm

Largest solar facility east of the Rockies

PROJECT BACKGROUND

The 617 MW Spotsylvania Solar Energy Center encompasses approximately 6,350 acres of land including 3,500 developed acres and 2,000 acres of preserved land.

VOLUME SUPPLIER FOR EPC

Over 2 years of peak construction activity, we supplied Mortenson and site sub-contractors with approximately

- 1,100,000 pounds of hydromulch*
- 152,000 pounds of custom grass seed, including more than 11 site-specific blends*
- 33,000 rolled erosion control products*
- 104,000 linear feet of compost filter sock*
- 22,000 square yards of geogrid*
- 41,000 square yards of geotextile fabrics*
- 132,000 linear feet of silt fence*

SOIL STABILIZATION ACHIEVED

Runoff traveling across 23 acres of gradual slope terminated at 2:1 grade before reaching the BMP. High concentrated flow eroded the slope and threatened the stability of the structure. After traditional erosion protection systems failed, soil stabilization was achieved with GEOWEB geocell.

Visit our website to read more about site-specific solutions and project achievements.

AT A GLANCE

Sector

Energy

Project size

617 MW | 3,500 acres

Location

Spotsylvania, VA

Project Partner

Mortenson (EPC)

Project Timeline

Project supplier 2020 - 2023

Construction 2019 - 2023

"Working in Virginia, we knew managing our erosion control and vegetation was critical to the success of the Spotsylvania Solar project. At over 3000 acres of cleared land, we needed someone who would be able to keep up with the demand of BMPs we would need to stop erosion and achieve vegetation growth. Colonial Construction Materials was integral to the project as they provided large BMP deliveries multiple times per week. They were able to source difficult to find geotextiles and seed mixes, maintain solid inventory and provide us extensive customer support even through the pandemic."

Emily Raymond

Assistant Superintendent
Mortenson