



MYR GROUP CONSTRUCTION

Client

MYR Group

Location

Bartonsville, VA

Project Size

170 MW

Module

Maxeon

Racking

Nevados ATT

Key Stats

23%

Reduction in steel pilings

406,413 yd³

Reduction in graded soil volume

43 miles

Length of steel saved

Project Description

Project developer D. E. Shaw Renewable Investments (DESRI) and EPC firm MYR Group sought to reduce overall construction costs and minimize the environmental impact of its 170 MW project in rural Virginia. Due to the site's size and rolling terrain, site grading work would be costly and would add risk. For the project to be feasible, MYR Group needed a solution that could reduce earthwork and material costs and accelerate construction.

Nevados Value

The Nevados All Terrain Tracker® (ATT®) was selected for this project due to its ability to follow the site's natural terrain and accommodate consistent foundation reveal heights. This eliminated a significant amount of grading and reduced the amount of steel piles by 23%.

The ATT® uses articulating bearings and non-continuous torque tubes to accommodate overall slopes of up to 20 degrees and angle changes of up to 15 degrees between posts. Whereas traditional solar trackers require variable foundation reveal heights to accommodate variable terrain — and therefore extra steel for piles — the ATT® allowed the MYR Group to use uniform foundation reveal heights. Sierra Overhead Analytics, an independent civil consulting firm, found that this saved the project 230,000 linear feet (or 43 miles) of steel and reduced the overall volume of graded soil by more than 400,000 cubic yards.



I am blown away by the simplicity and the capabilities of the Nevados All Terrain Tracker. It is truly versatile and does more than reduce cost, it reduces the environmental impact of a project.

Allen Oldroyd

General Superintendent, MYR Energy Services