

IMPA Solar Park Revegetation

Central Indiana



PROJECT OVERVIEW

CUSTOMER:

Indiana Municipal Power Agency (IMPA)

PRODUCT:

ProGanics® DUAL™

LOCATION:

Washington, Indiana

CHALLENGE:

Sandy soil with very little organic matter proved difficult to revegetate. Soil test results from Profile Products' Soil Solutions Software (PS3) showed just 0.4% organic matter (ideal levels are 5% or higher), as well as extremely low silt and clay levels.

SOLUTION:

To revitalize the depleted, sandy soils at a new solar site, Ferguson Waterworks consulted with partner Profile® Products to analyze the soil and create a custom solution.

PRODUCT ADVANTAGES:

- Increased productivity by reducing time and tank loads required for projects
- Replaces costly compost and topsoil while naturally and sustainably raising organic matter percentages over time
- Prevents erosion with a single application
- Simplifies and streamlines project logistics by reducing the need to transport multiple products to the jobsite

BACKGROUND

Originally a melon farm, the Washington, Indiana solar site was repurposed to provide a renewable energy supply for the local community. Construction began in early 2022. Significant work was needed to revegetate more than 24 acres with native plants and grasses instead of melons, which prefer sandy soils.

PROJECT SCOPE

The Indiana Municipal Power Agency (IMPA) has developed solar parks throughout the state of Indiana, and the Washington location is one of the largest projects the municipal agency has taken on. With many eyes on the project from taxpayers to government officials, the pressure was on to deliver an environmentally friendly and effective solution to establish vegetation and reduce potential runoff. Nearing the end of seeding season, a quick, effective application was essential to ensure successful growth at the solar site, so Ferguson Waterworks and Profile Products worked together to evaluate and prescribe the right products and treatments to ensure success.

METHOD

Ferguson Waterworks began the hydraulic application of ProGanics® DUAL™ in May 2023. Key components of the DUAL hydroseeding slurry includes plant seed, growth stimulators, organic matter materials and biological inoculants to mimic and speed up natural soil processes. Hydraulic application ensures smooth, consistent ground coverage of the erosion control product and resists rainfall better than alternatives due to advanced tackifier technology. In areas around the solar panel bases, a manual hose spray application was necessary to ensure product did not coat the panels.

THE SOLUTION: FERGUSON WATERWORKS AND PROFILE PRODUCTS

The solution included a hydraulic application of ProGanics® DUAL™, a unique topsoil alternative that converts depleted subsoils into ideal substrates while combining the erosion control performance of a Bonded Fiber Matrix (BFM). It supports the establishment of healthy vegetation and simultaneously locks down seed and soil.

With Profile's data-backed approach, an innovative erosion control and revegetation solution was created and implemented by Ferguson Waterworks to ensure the solar site not only met code, but also provided a healthy habitat for regional insect and animal species.

**For more information, contact a Geo & Stormwater Specialist
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