

MT SOLAR POLE MOUNTS IN AGRIVOLTAICS RESEARCH

HACIENDA BERDIEL TORRES COFFEE FARM

Adjuntas, Puerto Rico • Project by Twende Solar



Six single-pole MT Solar mounts stand 15 feet high along a coffee-tree-lined hillside. This system was built for hurricane-level resistance and provides energy

independence for the property, including restored operations of the farm's hydroponic greenhouse. Through the National Renewable Energy Laboratory's InSPIRE initiative, agrivoltaics researchers are studying energy output and crop yields.

USDA NORTHERN GREAT PLAINS RESEARCH LABORATORY

Mandan, North Dakota • Project by Lightspring Solar



Four multi-pole MT Solar mounts are arranged in a checkerboard formation to provide shaded and full-sun control groups. Soil moisture, plant

protein quantity, and other variables will be compared as Researchers aim to define new standards for agrivoltaics systems, particularly those in northern and dry plains environments. Future objectives include cattle-voltaics research.

THE UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN'S INSTITUTE FOR SUSTAINABILITY, ENERGY, AND ENVIRONMENT

Urbana, Illinois • Project by (SCAPES) Team



Three dual-pole MT Solar mounts using reclaimed modules create a testing ground for "Hortivoltaics" research. Advanced through a USDA grant, this SCAPES project

is part of a multi-state collaboration on agrivoltaics research. This specific site tests the growth of high-value horticultural crops and will utilize the mounts to create microclimates with varied light exposure, ground temperatures, moisture levels, and other factors.

UNIVERSITY OF THE DISTRICT OF COLUMBIA'S FIREBIRD RESEARCH FARM

Beltsville, Maryland • Project by Metropolitan Solar



18 single-pole MT Solar mounts shade crops, provide energy for various farming operations, and support a rainwater collection system for a Food-Water-Energy (FEW)

Nexus study. Supported by a USDA NIFA sponsorship, the study will examine food production and closed-loop irrigation under various tilt angles. Researchers also aim to develop guidelines for urban-based agrivoltaics and agriculture at sites with limited space and water resources.

COLORADO STATE UNIVERSITY ARDEC SOUTH FARM

Fort Collins, Colorado • Project by Sandbox Solar



A row of nine single-pole MT Solar mounts is installed alongside growing tunnels. Varied array configurations and module transparencies provide a diverse

research site for measuring crop yields and growing conditions. Sandbox Solar and CSU plan to utilize the results for educational and practical agrivoltaics implementation.

COLORADO STATE UNIVERSITY SPUR HYDRA BACKYARD

Denver, Colorado • Project by Sandbox Solar



One single-pole MT Solar mount located in a publicly accessible area of Spur's campus. Some of the same crops grown under the facility's green roof agrivoltaics system

will be grown at ground level to serve as control groups for comparing roof and ground conditions in agrivoltaics systems. The ground mount also allows public visitors to get an up-close look at an agrivoltaics setup.