



SYSTEM DETAILS:

SIZE: 310KW

MODULES: CSUN 335W

TECHNOLOGY:
HIGH-EFFICIENCY
POLYCRYSTALLINE

INVERTERS:
SOLAREGE 33.3KUS

RACKING: FIXED TILT (25°)

MODELED PRODUCTION:
1452 KWH/KW

HISTORICAL PRODUCTION:
1475 KWH/KW

Isbell Farms

England, Arkansas

Isbell Farms is a multi-generational family rice farm located in Central Arkansas that focuses on the sustainable production of quality rice. Each year, the farm grows and stores enough rice to feed more than 70 million people. Five generations have now farmed rice on Isbell Farms, and rice has been in cultivation here for over 70 years. The farm embodies a spirit of continual curiosity and persistent research, which has resulted in the implementation of several innovations such as Zero Grade Farming and Alternate Wetting and Drying to conserve water, as well as on-site solar to offset electric consumption.

Farming approximately 3,000 acres means there are many separate electric meters to power everything from the irrigation pumps, grain-drying silos, farm shops, and residences. The adoption of intelligent policies in Arkansas for net-metering and meter aggregation (described below) enables the Isbell family to build a centralized solar array instead of many small arrays. The result is a solar array that creates long-term value for the farm, helps achieve sustainability goals, and enhances the local grid by reducing peak demand during the busy season.

Isbell Farms

? What is Net Metering:

Net Metering is a policy that accounts for both power consumption and generation. Arkansas has 1-to-1 net metering which means that if someone puts a kilowatt-hour (kWh) onto the grid, they can take that kWh back at any time. The energy returned to the grid is never converted to money; it is simply available for use in the future. This means that the value of the power stays the same as the rates they are charged.

? What is Meter Aggregation:

Meter aggregation is a policy that allows an energy customer to provide a list of accounts to which any excess net metering credits should be credited. The solar field's electricity will first be applied to the meter to which it is connected, and any surplus credits will be applied to other meters on the list until all of the credits have been used up.

For the agricultural community, the combination of Arkansas net metering and meter aggregation policies is crucial. Electric consumption on any given meter in farming might fluctuate dramatically from month to month and year to year. These policies enable Isbell Farms to invest in solar knowing that any extra power they generate will offset their future consumption regardless of common seasonal variations.

"We view Solar as a valuable part of our operations and would encourage anyone to reach out to Doug and the Delta Solar team."

- Mark Isbell, Owner, Isbell Farms



DID YOU KNOW:

Isbell Farms pioneered the production of Japanese rice in the United States and is a leading supplier of specialty rice for Sake. Sake production is a centuries-old art form, and high-quality sake necessitates high-quality ingredients. It all starts with the rice!

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