

CASE STUDY

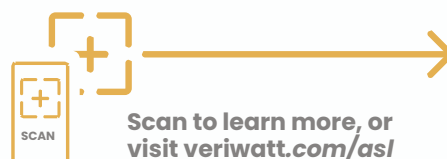


Seligman, MO
Solar Ground Mount
\$500,000 Lifetime Electricity Savings
99.8 kW System Capacity

*While this project is very profitable, future customers will experience even better returns based on increases in the ITC (30%) and increases in the USDA REAP grant (50%).

92% Energy Offset

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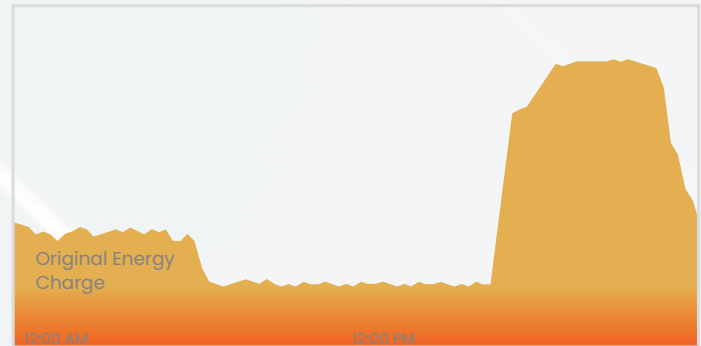
CASE STUDY



Project Scope: Circle M Farms is a multi-generational agricultural enterprise focused on purchasing and rehabilitating older poultry farms for organic poultry and beef production. With a strong belief in being good stewards of the earth, the farm used food scraps from various sources for 95% of their feeds, but the environmental impact of energy for the operation was a concern. After exploring solar options independently, Dave Mareth realized the process of securing funding, managing the installation, and handling daily operations of the system was too complicated and beyond the scope of anyone on the farm. They turned to APC Solar for help.

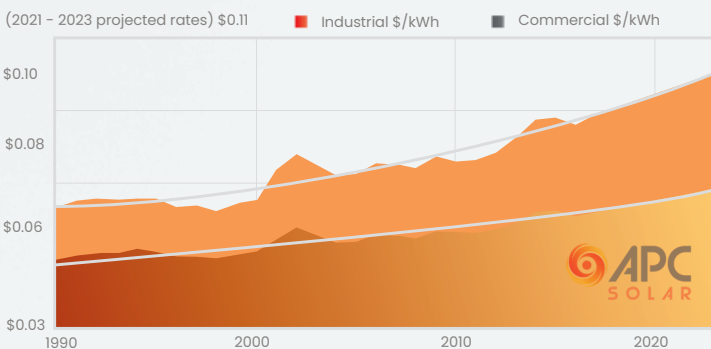
The Outcome: Discussing the project with Dave Mareth at Circle M Poultry Farm several years after the project, he continues to say great things about both the project and the outcome. Delivering a true turnkey agricultural solar solution, he felt that the farm had received

Energy Consumption Prior to Solar Investment



tremendous value, including a dramatically decreased power bill, and were provided with the details they needed but not the hassles of the overall process. *“Even three or four months after they were done, we’d have a light blink or something beeping and they’d be right there to fix it with a phone call,”* Mareth mentioned in a recent follow-up. *“The level of customer service was amazing, and we’d work with them again in a heartbeat.”*

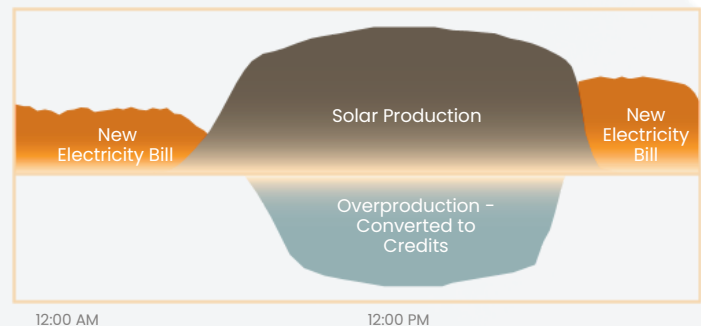
1990 - 2020 Historical MO Energy Rates



The Solution:

Shawn Roberts and the team at APC Solar knew that Missouri businesses have seen a **6% average growth in electric rates**, with some seeing their rates nearly double in recent years. They presented the farm with a turnkey solar solution that would **provide 92% of the farm’s electrical needs**. This system featured a 99.75 kW rooftop solar array of 285 photovoltaic panels without taking up any additional farmland that would produce approximately 155-megawatt hours annually. **A combination of a USDA REAP grant, MACRS Depreciation, and federal tax credits created a fast payback period of 5.9 years without putting any undue financial strain on the farm’s budget.**

Electricity Profile WITH SOLAR + NEM



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