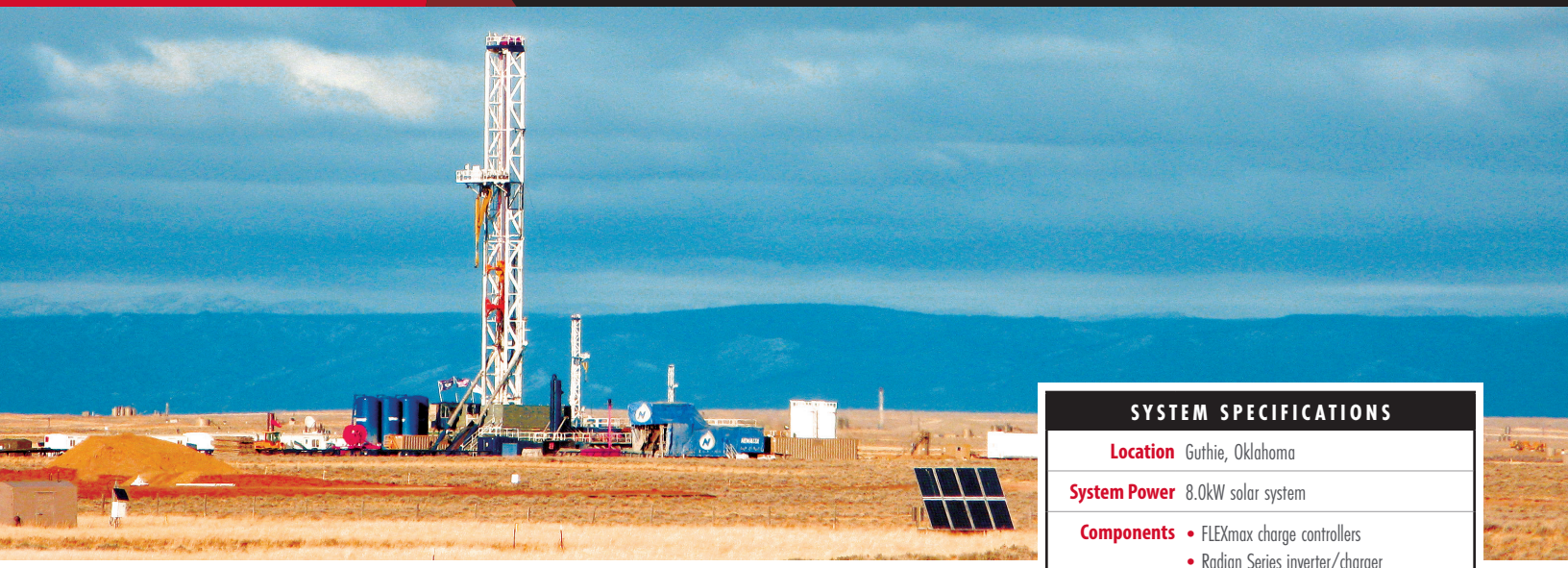
OutBack POWER™
an EnerSys company

CP Masters

OFF-GRID CASE STUDY



SYSTEM SPECIFICATIONS	
Location	Guthie, Oklahoma
System Power	8.0kW solar system
Components	• FLEXmax charge controllers • Radian Series inverter/charger • MATE3 system display and controller • HUB communications

OVERVIEW

CP Masters delivers cathodic protection, a technique for corrosion prevention and control of metallic structures in the North American oil and gas industries.
The company helps clients mitigate risk, decrease unscheduled downtime and repairs, and assure owners and communities that environmental best practices are in place. CP Masters relies on solar power for remote oil and gas installations where utility power is unreliable or unavailable. Solar power is a critical component of the company's promise "to protect clients' equipment and prevent dangerous leaks in well casings and pipelines."

CHALLENGE

- Guarantee 24/7 uptime for remote gas installations
- Ensure complete safeguarding of client sites and surrounding wildlife areas
- Increase renewable energy yield without incurring high maintenance costs

SOLUTION

- CP Masters deployed FLEXmax charge controllers equipped with Maximum Power Point Tracking (MPPT) into all future installations
- The FLEXmax's built-in temperature compensation prevents batteries from overcharging or undercharging under severe conditions
- CP Masters was able to stop both investing in external disconnect cards and manually connecting controllers to relays at each site
- The company adopted Radian Series inverter/chargers and MATE3 and HUB system displays and controllers to seamlessly program, manage and monitor solar energy systems

OUTCOME

- Built-in disconnect feature saves $50,000 annually in related expenses
- Temperature compensation reduces battery replacement costs
- Safe, reliable, renewable energy powers remote gas and oil fields protecting mission-critical equipment

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