

Case Study 8: GML Gate Master Light

LOCATION: Farm Entrance, Lincolnshire

SYSTEM: RSPS GML

PLATFORM: 24 V / 3 kW

CONFIGURATION:

- 5.0 kWh Energy Storage
- 3 kW Inverter Platform
- 1.32 kW Solar Generation
- Autonomous Gate & Access Infrastructure

System Overview

The Gate Master Light platform demonstrates that RSPS technology is not limited to water movement. The GML system provides autonomous off-grid power for gates, access control systems, lighting, communications equipment and other critical remote infrastructure.

Designed for low-power continuous operation, the system provides reliable year-round performance in locations where mains electricity is unavailable, unreliable or prohibitively expensive to install.

System Operation

- Autonomous gate and access infrastructure.
- Critical remote access support.
- Reliable low-load continuous operation.
- Telemetry-supported monitoring.
- Infrastructure stability in isolated locations.

Real-World Performance

- Continuous unattended operation.
- Typical standby consumption around 30W.
- Telemetry verified year-round performance.
- Reliable operation through prolonged poor weather conditions.
- Stable battery recovery during low solar periods.

What This Demonstrates

Versatility

The same RSPS infrastructure platform can support gates, communications, telemetry, lighting, warning systems and remote electrical loads without requiring mains power.

Critical Access Infrastructure

Reliable access systems are often as important as water infrastructure, particularly where sites are remote or unattended.

Key Takeaway

The Gate Master Light demonstrates that RSPS platforms can provide autonomous electrical infrastructure wherever reliable remote power is required.



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