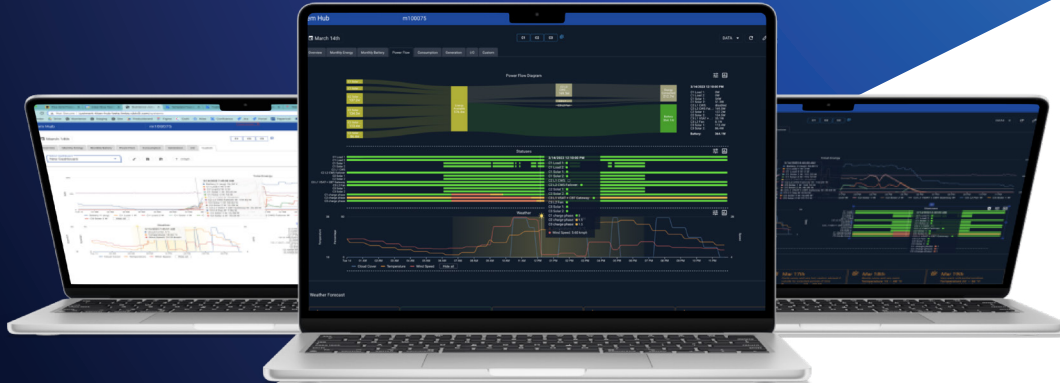


Illumience

The Intelligent Cloud-Based
Power Management Platform
for Smart Off-Grid



Illumience is the industry's most advanced remote management and control system for off-grid power devices. Illumience is supported by Clear Blue's expert service team, from local control centers, where all of your systems are monitored and managed.



Real-Time Intelligence in the Cloud

Configuration, load profile changes and power optimization are all done remotely and communicated via customized system alarms and automatic alerts, and multi-level reporting provides unmatched intelligence.



High Reliability and Optimized Performance

Through active monitoring, management and control individual systems are managed to deliver 99.999% uptime, maximum battery life and elevated energy control.



Remote and Proactive Maintainability

Full remote control and monitoring of all system components to allow for proactive maintenance, remote troubleshooting, and active control, reducing ongoing costs by up to 70%.



Expert Management Service

Clear Blue's power management experts provide ongoing support and service from installation and commissioning support through remote servicing and ongoing energy management.

Illumience

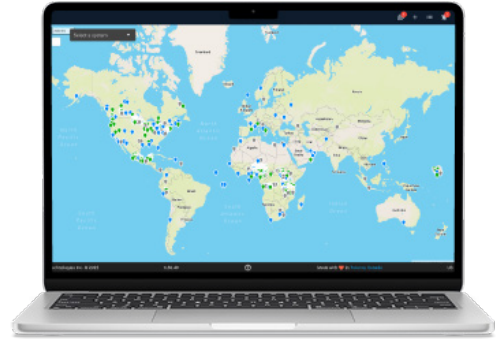
The Smart Power Advantage



Global Monitoring and Management

Performance analysis and management of systems remotely from anywhere in the world.

- Live and historical data for any system provided in a user friendly way.
- Local monitoring and management through Local WiFi App
- Manage settings remotely to optimize system performance.



Energy Forecasting

Advanced analysis of energy capabilities for better energy management and reduction of downtime.

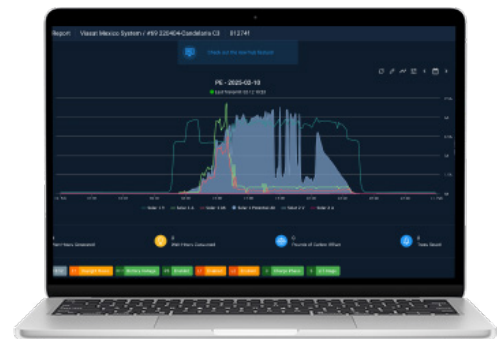
- Historical and live weather data.
- Multi-day weather forecast.
- Customizable load management to accommodate bad weather periods.



Potential Energy

Greater uptime through advanced analysis of shading impacts and solar soiling.

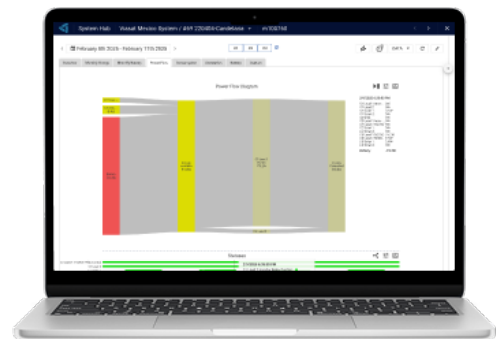
- Measurements of the potential energy the system can generate versus actual energy generation.
- System degradation due to dust or shading.



Battery Life Cycle

Variety of battery management features to maximize battery life and performance.

- Patented dynamic charging algorithms.
- Scalable battery pack.
- Support of multiple battery types.
- Remote battery monitoring and management.



Illumience

Cloud Software Features



System Monitoring and Status

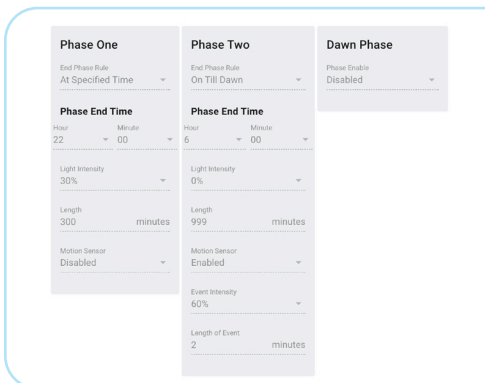
Data is continuously streamed from Clear Blue's Smart Off-Grid Controller to Illumience's cloud service. This data is stored in the cloud to enable ongoing support, maintenance, and troubleshooting. Collected data includes:

- Voltage and current readings for two independent solar panels and two independent load ports (applies to Nano-Grid systems only),
- Battery current, voltage and temperature
- Wind current and voltage, frequency, power and wind speed* at the installation site (voltage and current for AC and DC inputs as well as turbine frequency for systems configured with wind support),
- Integrated weather data, forecasts and alerts, and
- Over 24 other indicators are also sent to the cloud to monitor services maintained by the controller.



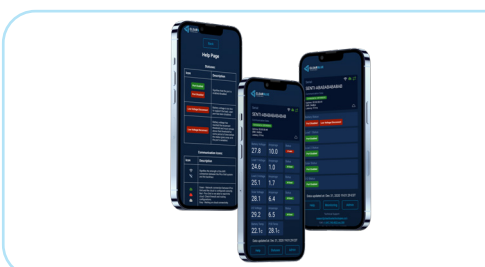
Alarms and Alerts

Each user can optionally create alerts for their systems individually or as a whole. Notifications can be delivered via email, or online via Illumience, with adjustable frequency. All statuses, and ports can have customized alerts based upon rules defined by the user. As trouble tickets are cleared, notification alerts are also sent out stating that the alert is no longer active.



Lighting/Load Profiles

Illumience makes it simple to set up and change load profiles that automatically adjust based on time of day, day of week, and whether or not motion has been sensed (motion sensor option must be included.) Illumience can manage two independent load profiles. System templates and modifications to profiles and other attributes can be easily applied across multiple systems. Profiles can be activated during the day for providing power to other devices which may or may not be a light.

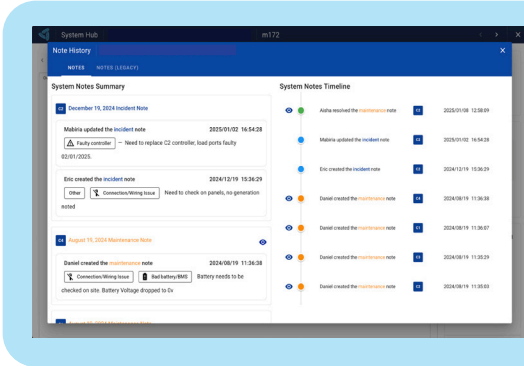


Local WiFi App for Commissioning and Maintenance

Our local Wi-Fi app simplifies commissioning and maintenance by providing real-time monitoring of currents and voltages. Adjust settings, update system location, and control loads—all without a network connection.

Illumience

Hub: System Analysis



Hub: Proactive Maintenance

Proactive maintenance provides complete visibility into your system's history, allowing you to track past issues, understand their causes, and identify trends before they become major problems. With easy access to maintenance records, you can make informed decisions to keep your system running smoothly. Our service team collaborates with you to address system needs, ensuring optimal performance, minimizing downtime, and reducing costly on-site visits.



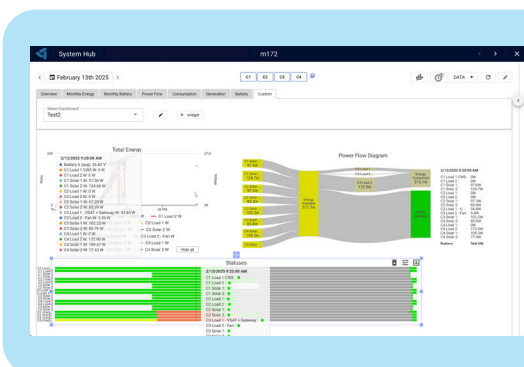
Hub: Monthly Energy Analysis

Our monthly energy analysis provides a comprehensive view of your system's performance, allowing you to track total energy generated and consumed over the past two years. Identify trends, pinpoint outages, and assess solar panel efficiency with detailed performance metrics. By analyzing energy usage patterns, you can determine if your system needs resizing to better meet demand, ensuring optimal performance and reliability. With this data-driven approach, you can make informed decisions to improve energy efficiency and prevent future power shortages.



Hub: Monthly Battery Analysis

Our monthly battery analysis gives you deep insights into your battery's performance over time. Track key metrics like max/min voltage, current, and temperature to understand usage patterns and detect early signs of degradation or aging. By identifying trends, you can take proactive steps to extend battery life, optimize performance, and prevent unexpected failures. With long-term data at your fingertips, you can make informed maintenance decisions and ensure reliable power when you need it most.



Hub: Custom Tab

Our Custom Tab lets you personalize your hub to display exactly the data you need, how you want it. Use our default charts and arrange them to fit your workflow, or create your own from scratch to track any combination of metrics. Whether monitoring performance, identifying trends, or comparing key data points, the Custom Tab gives you complete flexibility to build the perfect dashboard for your system.