BLOOM
Formerly Discover Energy Systems

CASE STUDY

GPS Base Station Solution

Installer: W.W. Clyde

BLOOM PRODUCTS

- 1 x DLP-GC2-12V, AES PROFESSIONAL Battery

OTHER PRODUCTS

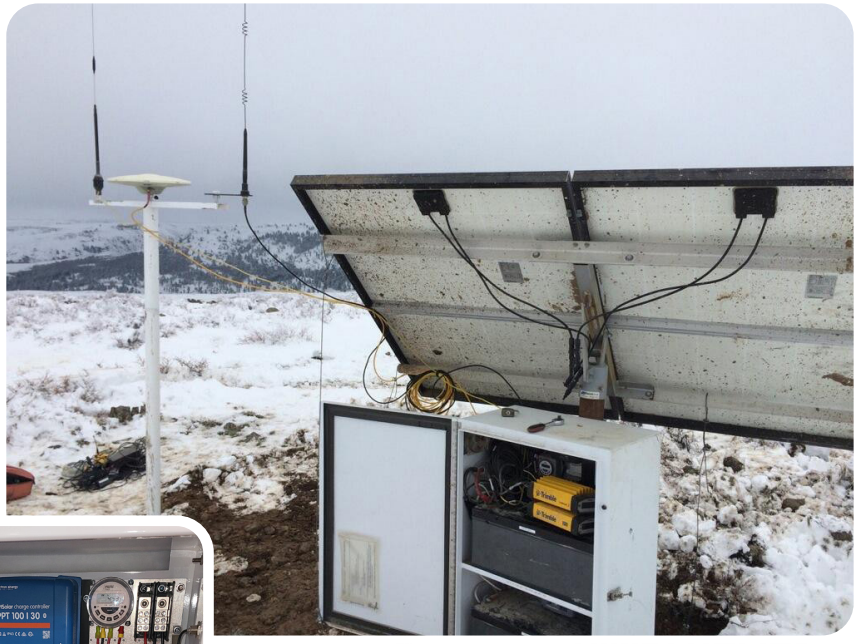
- 1 x Victron SmartSolar MPPT 100/30 Charge Controller
- 1 x Victron 500A SmartShunt
- 1 x Victron GlobalLink 520
- 275 W Solar Panel
- Victron Remote Monitoring (VRM) software
- Trimble GPS radio station

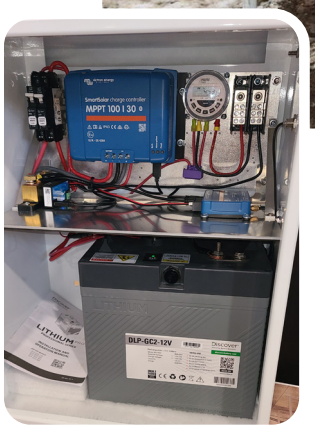
APPLICATION

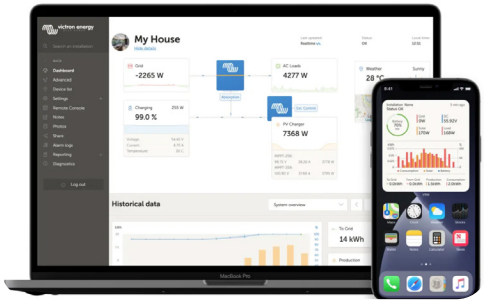
Remote GPS base station

REQUIREMENT

Reliability in extreme weather







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OVERVIEW

AES PROFESSIONAL DLP-GC2-12V

Remote GPS base stations, installed on mountain tops and at large construction road interchanges, can broadcast with their Trimble GPS radio within a 25-mile (40-km) radius, providing accurate GPS set points for surveyors, road graders, and bulldozers all day, every day. If the GPS station goes down, site work has to stop, causing costs that exceed $10,000 an hour.

A primary requirement is having GPS boxes that are reliable and robust enough to work under any condition, which is why the Victron and BLOOM products were selected. The GPS station is powered by a 275-watt solar panel, using a Victron 30 A SmartSolar MPPT charge controller and BLOOM Power AES PROFESSIONAL 1.5 kWh battery with an integrated heater.

Using Victron's Global Link and Remote Monitoring software, you can monitor the environment, solar production, and battery SOC for continued connectivity and runtime and stay on top of any potential issues.

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