Overview

The Solar1000-SCE is a meteorological station that meets or exceeds CAISO PIRP standards and is compatible with SCE Exhibit T Meteorological Station Specifications. Although offered as a turn-key package, the Solar1000-SCE retains the powerful, module nature of the Campbell Scientific product line. Nearly every aspect of the station is customizable, including sensors, communications, mounting, and power supply.

Features

- Station designed to minimize field wiring errors and reduce deployment time
- Wiring diagram, system drawings, and support documentation included
- Technical sales and commissioning support from Campbell Scientific application engineers included
- Station factory fabricated and tested prior to shipment

Attributes

- Campbell Scientific CR1000 or CR3000 Measurement and Control Datalogger
- Battery-backed system sized to allow data collection during power outages and network failure
- Any communication technologies such as TCP/IP, RS-485, fiber, cellular, satellite, and radio supported
- Compliant with Modbus, PakBus, and DNP3 protocols
- One second data delivery, storage, and management operation

CAISO, SCE Compatible Operational MET Station for Solar Energy Producing Utilities
Typical Configuration

1. CR1000 Measurement and Control Datalogger
2. SCADA Connectivity via Modbus and DNP (wireless and remote options available)
3. Uninterruptible Power Supply (solar panels available)
4. Robust Instrumentation Tower and Mounting Hardware
5. Heated Wind Sensor
6. Air Temperature Sensor
7. Relative Humidity Sensor
8. Barometric Pressure Sensor
9. Total Global Plane of Array Irradiation Sensor (one per collector plane)
10. Total Global Horizontal Irradiation Sensor
11. Diffuse Radiation Sensor
12. Precipitation Sensor
13. Back of Module Temperature Sensor
14. Soiling (Optional)

See Also

Solar800
Solar Resource Assessment Station with turn-key functionality and data collection

CSP100
Power Plant Assessment Station with the best possible solar resource measurements.