CAS Hemera GreenPower

Operational support to feasibility studies and generation, from remote and continuous monitoring of climatic conditions and field instruments.





GreenPower was developed for companies seeking to endevor or expand their business in renewable energy generation market through the continuous metering data monitoring.



Metering instruments installed on anemometric towers allow to record climatic phenomena behavioral data. CAS' GreenPower solution is composed of Communication Module with embedded intelligence and works with CAS Hemera platform to manage and analyze collected information, with various data logger models so that all data generated by the instruments are transmitted and remotely stored.

For data communication, a range of technologies are required to enable the utility to respond to field challenges, including mobile and satellite network communication. The solution can also count on solar energy to feed the equipment.



From field deployed technology it is possible to frequently send data to CAS Hemera GreenPower. Information are organized and processed in order to support the analysts' efforts to be concentrated in necessary information analysis for study. One of the direct results of this process is field teams agility, avoiding to damage collecting data and the quality of the study in compliance with Energetic Research Company and National System Operator requirements.



Features and Functionalities

Reading Automation

Data collection automation enables its storage, shipping and consistent organization, gathering subsidies to remote monitoring and continuous operation.

In addition to the possibility to access updated data, the solution allows the storage by the communication module, so in case of any data logger failure, the historic data base remains available to the utility.

Objects hierarchical presentation allows agility to register and to create field objects links:

- · Complete data of each anemometric station
- Data loggers mapping by station
- Tower instruments individual detailing

Graphic display of Metering Instruments

The generation of graphics for each instrument facilitates analysis. Graphics can be consolidated with daily, weekly, bi-weekly or monthly summarization.



For Wind Vane instrument, a Compass Card chart is added to the screen.





Meeting Regulatory Requirements.

In compliance with Energetic Research Company and National System Operator requirements, CAS Hemera GreenPower offers file export tool to AMA system, according to technical note EPE DEA – 04/12 and to NSO monitoring.

RS2000 product line - Satellite Communication Capability.



To meet all scenarios diversity, it is important to the utility to have options for communication technologies, even in remote environments. The CAS RS2000 communication modules were developed to provide viable alternatives for all environments.

