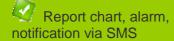


# LanMesh Renewable Energy Software - Server

LanMesh Renewable Energy Software is a secure web based Smart **Energy Management** software collect data and control wind turbine or solar electrical component more easily.



Flexible architecture



Support legacy or emerging network standard

Modbus, RS485, IEEE802.11, and Ethernet

Work with client software - Smart phone based application for industry automation

### Modules:

Driver for external controlled and monitored device: Handle data received Custom or third-party components

Data processing: provide access to arbitrary data streams supplied external data module.

Publish and notification: web service that provides access to live data. This layer has multiplexing capabilities and can communicate to multiple instances of underlying servers running on multiple server computers.

**Database:** monitors live data and records it in a SQL database



### Feature:

**Alarm Service** - receives data updates from LiveData Service and manages alarms.

**Live Data Service** - receives near real-time updates from data sources and provides other components with access to live data.

SQL Data Source Provider - monitors data changes in SQL databases.

Custom Data Source Providers - Custom or third-party components that monitor data changes in arbitrary data

History Database - A SQL database that stores historical data. Alarm Notification Service - sends alarm notification messages via email or SMS, and accepts alarm acknowledgements via SMS.

**Security:** Support SSL protocol. Communication between server and client are encrypted.

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## LanMesh Renewable Energy Software - Server



# V Data Acquisition:

- ♦ Handle data received Custom or third-party components
- ♦ Associate date time stamp for each sample data
- ♦ Associate position information for each sample data
- ♦ Verify data and screen illegitimate data pass through



#### Publish and notification

- ♦ Graphical web interface, real time data is updated as fast as 100 ms.
- ♦ Automatically generate daily, weekly or monthly report
- ♦ Send alarm notification to the administrator via SMS or email
- Arbitrary set up trigger event
- → Easy customize or upgrade client web interface
- ♦ provide stand-alone desktop management isolated from Internet to meet special needs and reduce the risk of external attack
- ♦ Energy benchmark reports
- ♦ Export data to PDF, spreadsheet, txt format
- ♦ Support open flash chart and easily switch among line, bar or pie chart
- ♦ Provide energy consumption trend chart



## **Account Management**

- **Group privilege**
- Secure log in
- configurable user permission



### **Database**

- Support MySQL
- **Support SQLight**
- Support data stored in local disk while use SQL language

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