

## 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
- ✓ Report chart, alarm, notification via SMS
- ✓ 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 sources.

**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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For a free consultation or demonstration, please contact us at (416) 623-9360 Ext. 505

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### **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 SQLite
- ✧ Support data stored in local disk while use SQL language

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