Please read this manual carefully and retain it for future reference.
Getting Started

LG ESS Products are designed to collect information of ESS status and send it to EnerVu server. So that user can monitor the ESS status not only in the LCD display of the power conditioning system but also web browser on your PC or Mobile device through the internet.

How to connect the EnerVu web site

1. On your internet-connected PC or Mobile device, open a browser such as Google Chrome.
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LCD touch panel Settings

To monitor the ESS information through the EnerVu web monitoring system, the installer must set several settings on the LCD touch panel when installing the ESS system.

Internet Connection

If there is a DHCP server on the local area network (LAN) via wired connection, the system will be automatically allocated an IP address. After making the physical connection, a small number of home networks may require the network setting to be adjusted.

1. Tab [Menu] on the main screen and tab [Installer Settings] option.

2. [Installer Log In] menu appears on the screen. Input installer password and tab [LOG IN] to enter [Installer Settings] menu.
3 Tab [NETWORK] on [Installer Settings]. Current status of the network connection is displayed.

4 Tab [Wired Settings]. Wired connection options are displayed. If [IP Setting] option in [Wired Settings] tab is set to [Auto], this product will be automatically allocated an IP address from local area network (LAN) via wired connection. You may need to set network connection manually depending on the network conditions. In this case, tab [Auto] to change to [Manual].

5 Fill in [PMS IP address], [Subnetmask], [Basic gateway] and [DNS address] option manually.
**Web data upload setting**

When the internet connection is completed, installer need to set the [Web server data upload] option in the LCD display panel. To monitor the ESS in EnerVu web monitoring system, the [Web server data upload] setting must be set to [On].

1. Tab [≡] on the main screen and tab [Installer Settings] option.

2. [Installer Log In] menu appears on the screen. Input installer password and tab [LOG IN] to enter [Installer Settings] menu.

Sign In Page

1. Select this button to move to the owner sign in page.

2. Moves to the new owner account creation page. Refer to page 11 for more information of owner account creation.

3. Moves to the [Installer Sign In] page. If you do not have an installer account, select [Sign Up] button in the [Installer Sign In] page. Refer to page 8 for more information of installer account creation.

4. Select [Privacy], [Terms] or [Support] to show corresponding page in a new browser.

5. Select a language. [English] and [Deutsch] are available for the selection. The default language is [English].
Creating an installer account
To monitor and manage ESS systems, installer need to create an EnerVu installer account.


2. Select [Sign Up]. The [Sign Up] page appears.

3. Enter the installer’s first name and last name and fill your mail address in [Email] field and select [Check]. And then fill the [First Name] and [Last Name] fields.
Fill the required information on [Company Detail] section.

And then read the [Installer terms] and [Installer Privacy Policy] carefully. If you agree with every terms and policies, click [I Agree] check box in each section. [Submit] button appears on the screen. Select [Submit] to complete creating an installer account.
When you forgot your password

If you forgot your password, proceed the password reset steps described as below.


2. Select [Forgot your Password?]. The [Password Reset] page appears.

3. Enter your account e-mail address in the [Email] field. The instructions of password reset will be sent to your e-mail address.

Follow the instructions of reset password.
Creating an owner account
To activate an ESS on EnerVu web monitoring system, ESS owner must create an owner account. Installer need to guide how to create an owner account and the owner’s e-mail address is needed for system activating.


2. Read the terms, conditions and privacy policy carefully.
If you agree with every term and condition, click the [I Agree] check box and select [AGREE]. The account creation page appears.
3 Fill your mail address in [User ID] field and select [CHECK AVAILABILITY]. Fill in [Password], [Password confirm] and [Birthday] fields and select [CONFIRM]. The e-mail confirmation page appears.

4 A confirmation e-mail will be sent to your e-mail address. On your e-mail, select [CONFIRM] to complete the e-mail confirmation.

LG ACCOUNT

LG Account e-mail authentication

Dear [email address],

Thank you for creating an LG Account.
Please click [Confirm] button below to complete the registration process.
Failure to confirm your e-mail account within 48 hours will result in account deletion. If so, you will have to start over the membership sign up process and receive a new verification e-mail.

CONFIRM

Authentication expiration date: 12-09-2015 04:12:15 [GMT+01:00 Berlin]
5 On the account creation page, select [CONFIRM] to complete creating your account.

![Confirmation Email]

6 Select [SIGN IN] to go to the [SIGN IN WITH LG ACCOUNT] page.

![Confirm LG Account]

7 Input your [User ID] and [Password] and select [SIGN IN]. Available LG account services are displayed on the screen.

![Sign In with LG Account]
Main Page

1. Location and weather information
2. Installer and company information
3. Main menu tabs
4. Select [Privacy], [Terms] or [Support] to show corresponding page in a new browser.
5. Select a language. [English] and [Deutsch] are available for the selection. The default language is [English].
Dashboard page

Show/Hide widgets

1. Select the [Add a widget] button to show all the widget name.

2. You can show or hide specific widget by selecting [Add] or [Eject] button.
Activation List
Shows a list of system activations that are in process.

Add a New System: Directly goes to the [Add a New System] page. (page 29)
Go to Activating List: Directly goes to the [In Process] page. (page 28)
☐: Minimize or Restore widget size.
⚙️: Displays the widget setup.

Event List
Shows a list of system logs such as warnings and faults.

View all System: Directly goes to the [System] page. (page 18)
☐: Minimize or Restore widget size.
⚙️: Displays the widget setup.
**Send Mail**
Send an e-mail of EnerVu web monitoring service guide to an ESS owner.

![Send Mail](image)

Input an e-mail address of ESS owner and select [Send] to send the guide Email.

**Total Product**
Shows various information of all systems activated in my account.

![Total Product](image)

View all System: Directly goes to the [System] page. (page 18)

**System Find**
Input a system name and select [Find] to find the system.

![System Find](image)

The system will be displayed on the widget. Select the system name to move to the system state page directly.
When you select the [System] in the main page. Goes to the system page and display a list of every system that are activated in your installer account.
Select a system name on the list to goes to the system state page of the selected system.
System Tab

Checking the current state

When you select [Current State] in the [System] tab, you can find and check various information related to your system.

1. Weather
   Displays the weather of the location the system has been installed.

2. Location
   Displays the location the system has been installed on the map.

3. System Log
   Displays the system fault.

4. System Overview
   Displays the status of the system in real time. This page provides you with system information such as current power generated from PV, power purchased from grid, power charged/discharged from the battery. ALL the information is renewed every 15 minutes.
## Editing a system profile

When you select [Profile] in the [System] tab, [System Profile] page appears on the screen. The System Profile page shows you the system information registered when the system was activated.

1. On the [System Profile] page, you can find the [Edit Profile] button at the end of the page. Select the [Edit Profile] button. The button will be changed to [SAVE] button.
2. After selecting [Edit Profile] button, every fields on this page can be editable. Select a field you want to change information and input a new value in the field.
3. When you finish editing information select the [SAVE] button to confirm profile editing.

**NOTE**

Information of [PV Info] section can not be edited in the EnerVu web monitoring system. Those can only be edited in the LCD touch panel of the system. When you change the PV information in the LCD panel of the system, information on [PV Info] section will automatically be changed.
**Forecast the energy generation**

The EnerVu web monitoring system provides you with the energy forecast function. Select [Forecast] in the [System] tab, [Forecast] page appears on the screen.

EnerVu system will automatically show you the expected generation this year by graph and table.

There are several graph options below the graph. Select an option to toggle display on the graph.
Analysis Tab

Making a statistical graph

When you select the [Analysis] tab, [Energy View] page appears on the screen. The page shows you graph of statistical data for energy state of your system.

You can make a daily, monthly or an yearly graph of statistical data for energy state.

Select a tab on the left side of the screen.

<table>
<thead>
<tr>
<th>Tab</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy View</td>
<td>Makes an overall graph of statistical data.</td>
</tr>
<tr>
<td>PV Graph</td>
<td>Makes a graph of statistical data on PV. (Generation and Grid feed-in)</td>
</tr>
<tr>
<td>ESS Graph</td>
<td>Makes a graph of statistical data on ESS (Charging, Discharging and SOC)</td>
</tr>
<tr>
<td>Load Graph</td>
<td>Makes a graph of statistical data on household load. (Consumption and Purchase)</td>
</tr>
</tbody>
</table>

Select a duration option among [Day], [Month], [Year] or [Total].

Select a date, month or year to make a statistical graph. After the selection, the graph will be displayed in a short time.
There are several options at the bottom of a graph, click each option to show or hide the statistical information on the graph.

Available options are different depending on the graph. Refer to the table described below for more information on graph options.

<table>
<thead>
<tr>
<th>Tab</th>
<th>Graph</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>CONSUMPTION</td>
<td>Direct Consumption</td>
<td>Amount of directly used energy from PV.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Discharging</td>
<td>Amount of energy that used from the battery.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Purchased electricity</td>
<td>Purchased energy through the power grid.</td>
</tr>
<tr>
<td></td>
<td>GENERATION</td>
<td>Direct Consumption</td>
<td>Amount of directly used energy from PV.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Charging</td>
<td>Amount of energy that charged to the battery.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grid feed-in</td>
<td>Amount of sold energy through the power grid.</td>
</tr>
<tr>
<td>Tab</td>
<td>Graph</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>---------</td>
<td>---------------</td>
</tr>
<tr>
<td>PV Graph</td>
<td>Energy</td>
<td>Generation</td>
<td>Amount of generated energy from PV.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grid feed-in</td>
<td>Amount of sold energy through the power grid.</td>
</tr>
<tr>
<td>ESS Graph</td>
<td>Energy</td>
<td>Charging</td>
<td>Amount of energy that charged to the battery.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Discharging</td>
<td>Amount of used energy from the battery.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SOC</td>
<td>State of charge</td>
</tr>
<tr>
<td>Load Graph</td>
<td>Energy</td>
<td>Consumption</td>
<td>Amount of used energy from ESS system.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Purchase</td>
<td>Amount of purchased energy from the power grid.</td>
</tr>
</tbody>
</table>

Select [ ✗ ] to print a graph or download as an image file.
Report Tab

Making a statistical report

You can make a monthly or an yearly report of statistical data for energy on your system.

2. Select a reporting period option between [Yearly report] or [Monthly report].
3. Select desired month or year to display a report.
4. Select 📈 to download the statistical data as an Excel file.
   Select 📢 to print the statistical data.
Event Tab

Checking the system event

When you select the [Event] tab, the [Event] page appears on the screen. The page shows a list of issues occurred such as system fault, warning.

1. Select a period option among [Current issues], [Past 7 days] and [Custom Range].
   When you select the [Custom Range], select the start date and the end date.

2. Select the [Type] option among [All], [Fault] and [Warning].
   The event list will be filtered by selected type option.

3. Select desired month or year to display a report.

4. Select ✏️ to download the statistical data as an Excel file.
   Select 🌐 to print the statistical data.
**User View Tab**

When you select the [User View] tab, the owner version of EnerVu web monitoring system is displayed in a new browser.
Activation Page

This page is intended to activate a new system to my account. Refer to page 29 for more information of system activation.

When you select the [In Process] tab in the System page, a list of system registrations that are in process. Select a system on the list to continue system activation.
Activating a new system

In order to monitor and manage a new system, the system should be activated in EnerVu web monitoring system by installer.


2. And then input the installer’s e-mail address and the password and select [Installer Sign In]. If the installer does not have an account, select [Sign Up] and make a new installer account.

4. Fill every information in the [System Info] field and select [Save] to save the information.

5. In the [ESS Info] field, fill the product registration number and select [Check]. The ESS information will automatically be filled.

6. Select [Save] to go to the next step.

   Fill the every information in the [Owner] field and select [Save] to save the information.

   And Select [Activation] at the bottom of the page to finish the activation process.
Account Page

The [Account] page shows you the account information. On the [My Account] tab, you can modify your account detail, reset password or secession your account. On the [Company Information] tab, you can check and modify your company information. On the [User] tab, you can check all the installers in your company. You can also add a new installer if you are a administrator.
If your role is not an administrator, you can only check the installers belonging to your branch office and you can not add a new installer.

My Account Tab

Modifying your account detail

2. Change your information in the [Account Detail] section and then select [Modify] to confirm changes.
Changing your password

3. Fill [Current password], [Enter new password] and [Confirm new password] fields and then select [Modify] to change your password.

Deleting your account

2. Select [Secession]. A pop-up message appears on the screen. Select [Yes] to confirm account secession.
Setting the notification preference


2. In the [Notification Preference] section, there are several options for notifying events and reports to an owner.

   - **Send me Transfer notification**: Send me a mail when an owner transfers the system to the other owner.
   - **Send me monthly system performance summaries**: Send me a monthly mail of system performance summaries.
   - **Alert email preference**: You can select a notification option when there is a warning or a fault on the system.

Company Information Tab

The installation company can have several branch offices and each branch office may have several installers.

On the [Company Information] tab, you can check or modify your company information. And also you can add a new branch office in your company. If your role is not an administrator, modifying your company information and adding a new branch office are unavailable.

Modifying company information


![Company Information Tab](image)

2. Change the company information in each field. You can also register or change company logo in [Logo url] field.

3. Select [Modify] button to confirm changes.
Adding a branch office

In the [Office] section, you can check the every branch office and add more branch office.


2. In the [Office] section, select [Add Branch Office] button to open a new company information input page.

3. Fill the company information in each field. You can also register company logo in [Logo url] field.

4. Select [Submit] button to register a new branch office.
Users Tab

You can check all the installers in your company. And also you can add a new installer if your role is administrator. If your role is not an administrator, you can only check the installers belonging to your branch office and you can not add a new installer.

Adding a new installer


2. Select [Add New User] button to open a new user input page.

3. Fill the user information in each field.
