



ABB Ability Energy Manager
Single Line Diagram Add-on



- 90 Very good
- 6 Good
- 4 Fair
- 30 Poor
- 10 Very poor
- 30 Offline

Introducing ABB Ability™ Energy Manager SLD Add-On

ABB Ability™
Energy Manager + Asset Manager

ABB SACE Building
ABB Via Pescarola 5 24123 IT IT

Manager 10:28:30

Matching Dashboard Explore Analysis Events Maintenance Settings

Explore: Single Line Diagram

Views

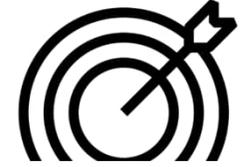
- Single Line Diagram
- Connectivity
- All equipment

SLD Building

Diagram components: Solar Inverter, GSD-Panel 1, GSD-Panel 2, GSD-Panel 3, GSD-Panel 4, Head Post, EV Charger, System Test Lab.

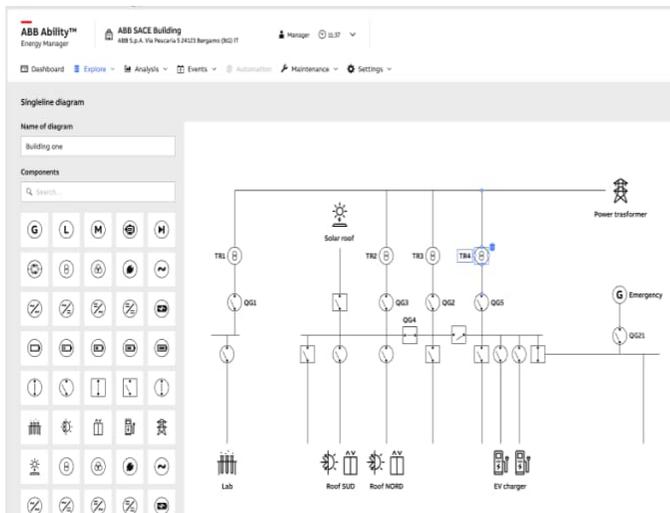
- ✓ SLDs are an essential tool for design institutes, energy consultants, energy service companies (ESCOs) and other professionals involved in designing and maintaining electrical systems.
- ✓ SLD provides a visual representation of the electrical components and connections within a system, making it easier to understand and troubleshoot potential issues.
- ✓ The Single Line Diagram enables users to quickly see data coming from devices, such as whether a breaker is open or closed, and whether a device is disconnected or affected by alerts.
- ✓ With an intuitive drag-and-drop interface, users can quickly add cloud-connected devices to their diagrams. And with cloud-based storage, SLDs are automatically saved and can be easily accessed and shared with team members.

SLD with ABB Ability™ Energy Manager



How we want to solve the needs

The Single Line Diagram Add on has been designed to improve the reliability and efficiency of the electrical systems, and make informed decisions based on accurate and up-to-date information and analysis of current, voltage, power, and connectivity issues.



Key Benefits

Real-time updates and analysis of connectivity

Provides real-time updates of current, voltage, power, and connectivity issues, allowing for timely and informed decision-making.

Improved collaboration and accessibility

Multiple users can access and edit the same SLD simultaneously, facilitating collaboration and reducing the time and costs associated with travel and on-site visits.

Secure storage

Digital SLDs stored in the cloud are secure and backed up, protecting critical data and reducing the risk of data loss.

Increased accuracy

Digital SLDs reduce the risk of errors associated with manual data entry and updating, and they provide real-time notifications of changes.

Technical Features

Easy-to-use lateral menu with different categories:

Generation, Switching Devices, Monitoring, Loads, Wirings, others (text box)

Quick and easy design by dragging and dropping devices from the menu

Link your SLD to connected devices and define the power flow

See critical measurements :

voltage, current, power , power factor

Click on the single device to see additional information

Visualize graphically the statuses of a device:

Greyed out it disconnected

Alert icon if an alert is triggered on such a device

Understand if the CB is open/close

ABB Ability™ Energy Manager SLD Add-on Main Page

The SLD can be found by clicking on the “explore” tab, and the “single line diagram” button.

- ✓ Visualize in a grid view or in a table view.
- ✓ Export one or more SLD projects.
- ✓ Create a new diagram and view.
- ✓ Edit, remove, or clone an existing project.
- ✓ Update the files attached.

The screenshot displays the 'Explore: Single Line Diagram' interface. At the top, there is a navigation bar with tabs: Matching, Dashboard, Explore, Analysis, Events, Maintenance, and Settings. Below this, a grid of four single line diagrams is shown, each with a title and a vertical ellipsis menu icon: 'Building', 'laboratory', 'SLD DEMO', and 'SLD DEMO- Clone - test'. The 'laboratory' diagram has a dashed box around a component labeled 'Centrale Termica B.'. The 'SLD DEMO' diagram shows a utility inverter connected to a busbar, which then branches into two transformers (TR1 and TR2) and a solar inverter connected to a solar roof. The 'SLD DEMO- Clone - test' diagram shows a similar setup but with a 'priority load' and 'laboratory' load. In the top right corner, there are buttons for 'Grid' and 'Table' views, and '+ New' and 'Export' buttons. A context menu is open over the 'SLD DEMO- Clone - test' diagram, showing options: 'View', 'Edit', 'Remove', and 'Clone'. The 'View' option is highlighted with a red box.

ABB Ability™ Energy Manager SLD Add-on Edit Mode

- ✓ Lateral menu with different categories:
- ✓ Generation, Switching Devices, Monitoring, Loads, Wirings, others (text box)
- ✓ Drag and drop devices from the menu
- ✓ The configuration menu with different tabs:
 - Label to set a name for a device which is not linked to the cloud.
 - Assets to select from the list of devices in cloud through the tag name
- ✓ Diagram to connect other SLDs
- ✓ Define the power flow
- ✓ Zoom in/ zoom out
- ✓ Export PDF

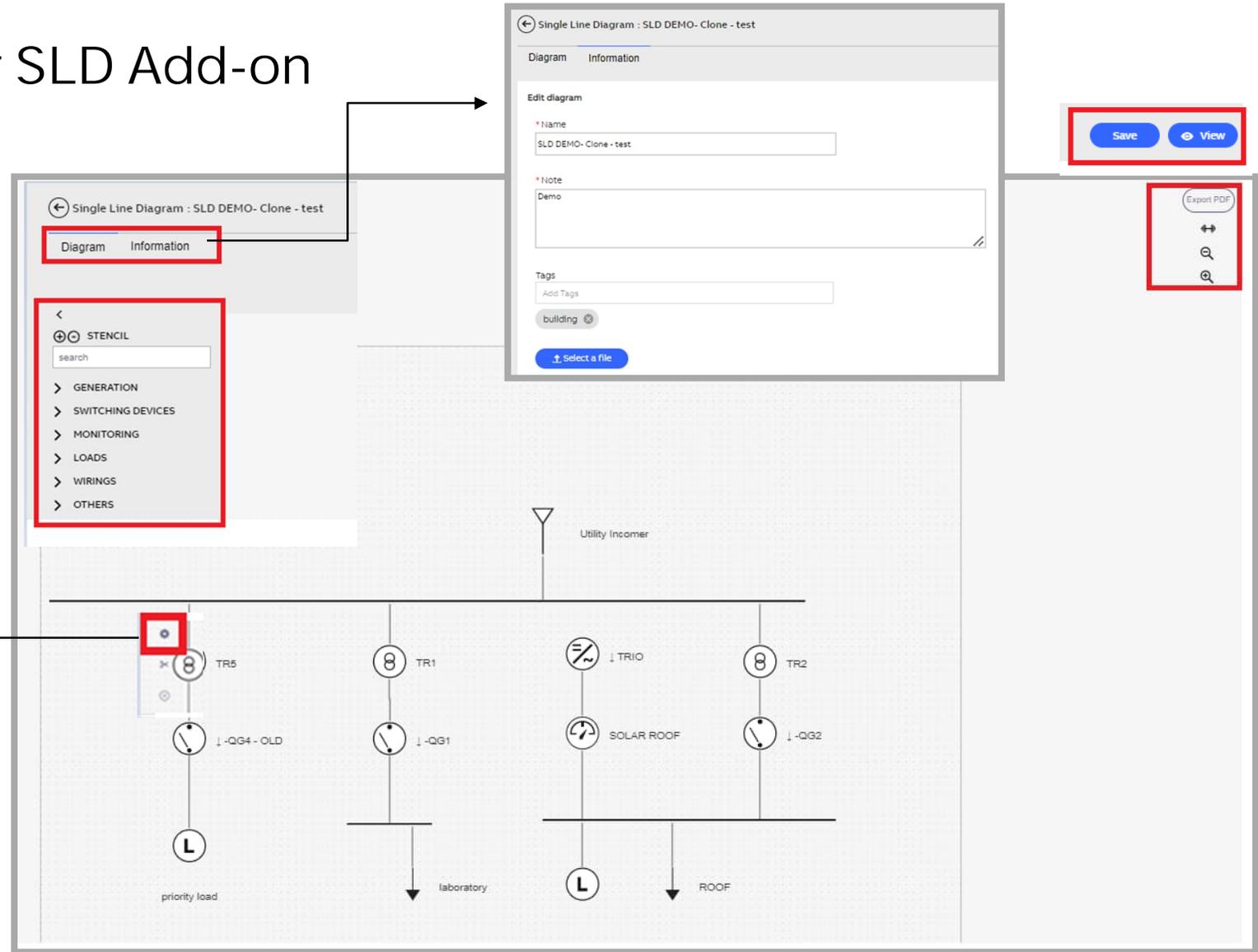
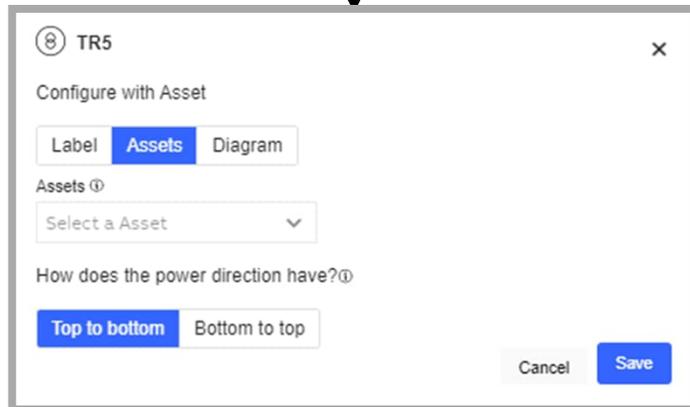
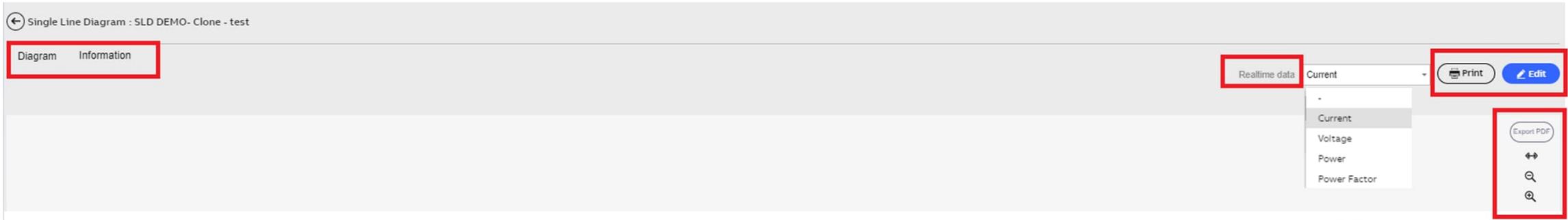


ABB Ability™ Energy Manager SLD Add-on View Mode



Real time measurements: voltage, current, power, power factor

Click on the single device to see additional information

Visualize graphically the statuses of a device:

- ✓ Greyed out if it's disconnected
- ✓ Alert icon with red color if an alert is triggered on such a device
- ✓ Understand if the CB is open/close
- ✓ Blue color to indicate another SLD attached to the existing SLD

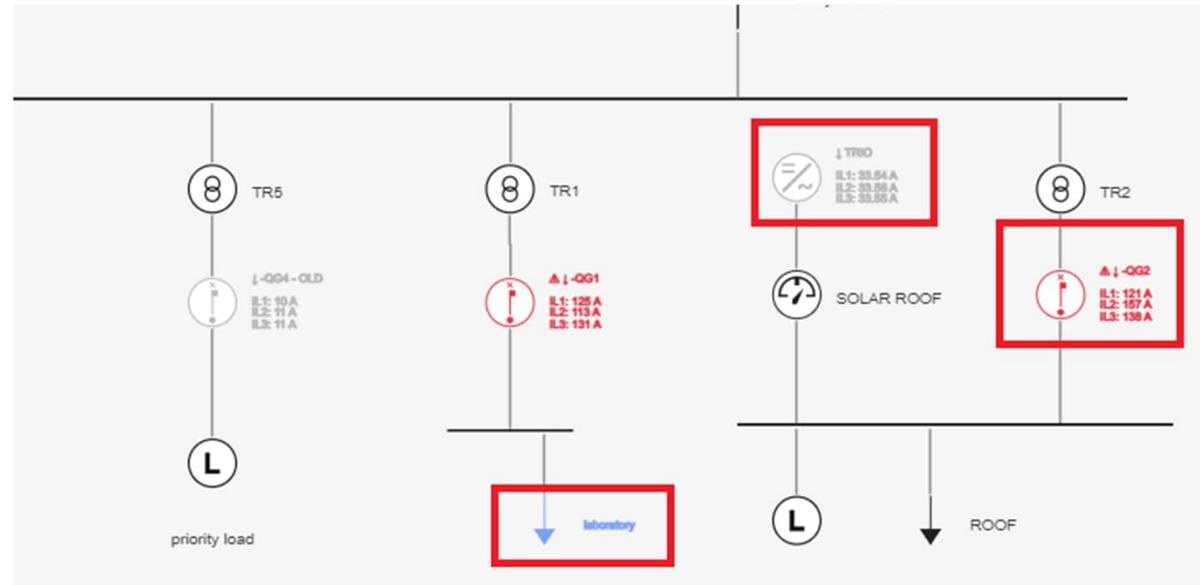


ABB Ability™ Energy Manager SLD Add-On Available

The code of ABB Ability™ Energy Manager SLD add-on is 1SDA116085R1.

SLD add-on is available for ABB Ability™ Energy Manager [Performing](#) and [Scanning](#) editions.

Only during the promotion phase (until December 2023), it will be available also for ABB Ability™ Energy Manager Watching edition.

ABB Ability™ Energy Manager – SLD, being an additional functionality of this Software-as-a-Service solution, it will be available through ABB Ability Marketplace™ at the following web-links:

[Ability Marketplace™ EU and Rest of the World](#)

[ABB Ability Marketplace™ China ABB](#) (it will be available soon)

Only for the Countries which have not access to ABB Ability Marketplace™ , ABB Ability™ Energy Manager – SLD will also be available offline following the dedicated procedure which is available [here](#).



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