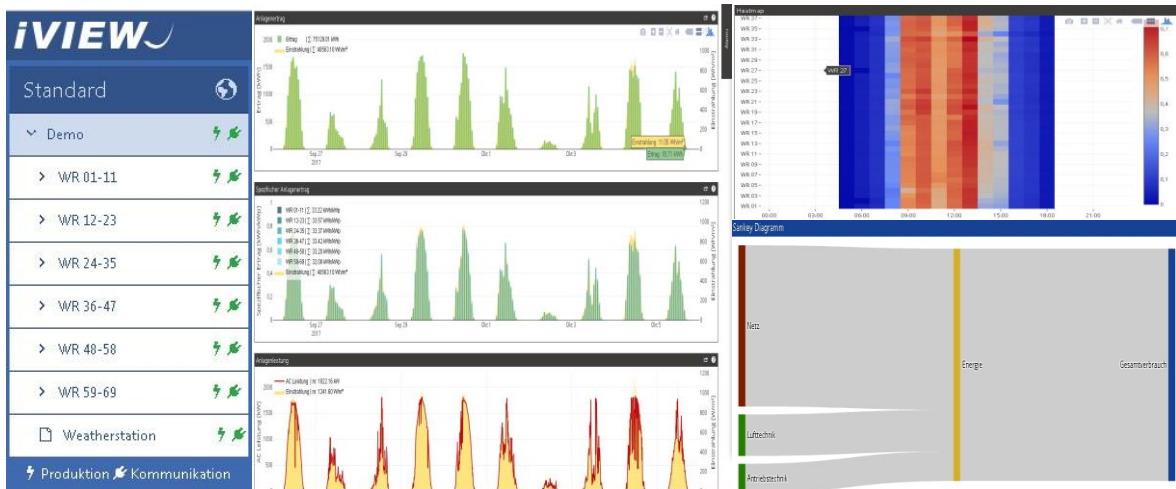


iSOL Portal for power plant management

The iSOL portal is a holistic web application that is used for modeling, logging, visualization and fault monitoring of power generation plants. In the intuitive iWizcon editor, the devices to be logged are created in a tree structure, from which the navigation and the panels for the individual devices are subsequently generated. A customer-specific display of all logged values of the plant components is possible at any time by creating new, individual panels.

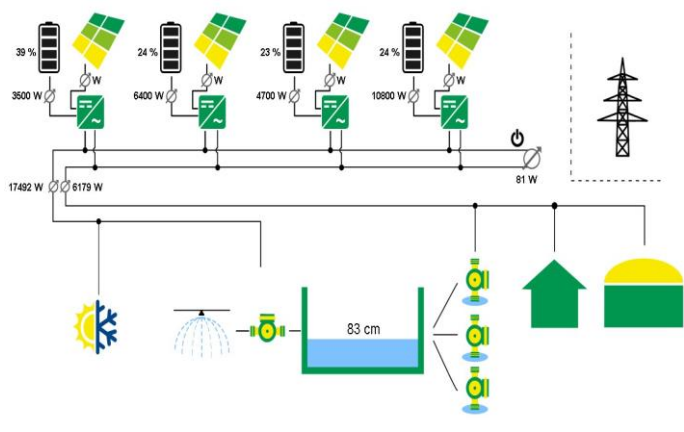


Visualization

For each node in the generated tree structure, dashboards with diagrams for the modeled devices are created. For new device types, corresponding models with new diagrams can be created at any time (e.g. heat maps, Sankey diagrams, etc.). In addition, it is possible to create a control room view with all instantaneous values of the plant.

Modeling

In the iWizcon editor, the plant structures as well as all devices to be logged are modeled. From this model, a navigable tree structure and dashboards for all nodes of the tree are automatically generated. These panels can be adapted to the specific needs of the customer and the conditions of the plant.



Logging

For each device created in the model, a selection of data points corresponding to the device type is collected and stored in a timeseries database. The data can be displayed in the form of diagrams and tables and exported as an Excel or csv file.

Alarming

The system detects and saves predefined errors of the modeled devices. On the one hand, there are the errors reported by the device itself and, on the other hand, the errors detected by the portal (e.g. inconclusive yield values). The customer can view these errors directly in the portal, be notified by e-mail or be informed daily in the form of a report.

Interfaces

Additional interfaces to ticketing and asset management systems extend iSOL to a scalable O&M platform.

The screenshot shows the iSOL software interface. On the left, a hierarchical tree structure displays components: a 'Plant' (Example 132) containing several 'Block' (North, South-East-N, South-East-S, South-West), 'Kale' (Kale 6x29 (6109), Kale 6110 (6110), Kale 6111 (6111)), and 'TO Module' (Irradiation Sensor (S-F948)). The 'WR 06 (PowerOneInverter_07)' component is highlighted in red. On the right, a detailed view for 'WR 06 (PowerOneInverter_07)' is shown, including 'Base Data' with fields for 'Identifier' (PowerOneInverter_07) and 'Alias' (WR 06), and sections for 'Product', 'Role Tags', and 'Form'. The top navigation bar includes options like 'Metaplant', 'Change Plant', 'Mapping', 'Editor', 'Build', 'Save', 'Add Child Element', 'Delete Node', 'Up', and 'Down'.