eWON
MACHINES CAN TALK

Benefits

- Quick visualization of the plant

- Alarm and control system

- Access to data archiving on a long term

A photovoltaic power plant from the inside thanks to eWON visualisation and monitoring system

The Vonsch company is aware of the fact that building a photovoltaic power plant requires a performing communication system embedded into the plant. A communication network able to collect important data concerning the production process and providing diagnosis on basis of panels and inverters.

The cost-effective solution chose was eWON technology combined with the company's inverters and control systems.

Visualisation and monitoring of the system

With this kind of structure, the corporate is now able to perform visualization and monitoring of the system from afar, which enables to provide comprehensive information to the user about the working process of the power plant.

The eWON industrial router is the device that links the control system and the operator through a VPN connection thanks to the online software Talk2M. So, in means of this device, the web visualization of the power plant is possible.

Multiple effective features

The eWON router can collect data archiving about the variables and send this archive files automatically to an FTP server.
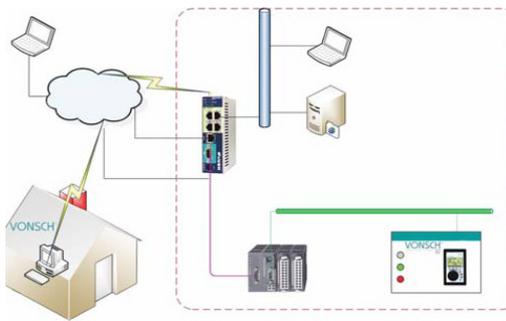
Another possible feature of the eWON structure is the implementation of alarm systems and the sending of SMS or e-mail alarms. Moreover, the remote maintenance system allows direct diagnosis and control of inverters in case of issues.

The only support needed in order to make the eWON work is an internet connection which can be provided through three main ways: a LAN connection, a DSL line or a GPRS/EDGE/HSDPA access.

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Customer: Vonsch
Country: Slovakia
Sector: Renewable Energy (Photovoltaic)

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The FTP server stock collects data archiving about the variables

Schema of the remote maintenance connection to the system

Simplify your life

The eWON router exports data in text and graphic form onto the network disk, which stores the power plant data with a practically unlimited capacity. Thanks to the router, access to the archive is provided via either the FTP server or the Internet. The archived data is therefore available for potential further processing (database or SCADA systems) as required by the installation's operator.

The monitoring system of both a centralised and a decentralised power plant is equipped with the same communication elements, which greatly simplifies the design of various power plant topologies and also reduces the cost of software development and equipment commissioning.

For remote access to the power plant facilities, an internet connection is used exclusively, mediated by the Talk2M service of the eWON Company. The eWON router makes a secure, VPN connection to the Talk2M web server. The user also makes a secure VPN connection to the same server, by signing in to the Talk2M service on the other side. This server interconnects the two VPN tunnels. Only authenticated users can connect to their eWON routers.

In real terms, this provides the possibility of editing the software in the control system online and hanging the setting of any parameter of any inverter in the power plant via the Internet. This is how, in addition to regular servicing, the experts at VONSCH can assist in debugging and adjusting the power plant to optimal operational parameters.

Connecting to a remote location via mobile phone networks is just as straightforward. An eWON router containing an embedded GPRS or EDGE modem can either be permanently connected to Talk2M or can be remotely activated to establish a Talk2M VPN session, by sending it a SMS text message.

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