

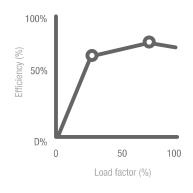
The use of an energy consumption monitoring and analysis system is the prerequisite for satisfying the legal requirement (Italian Decree Law 102/2014) for **Energy Audits** for large and energy intensive enterprises; it is the essential condition for acquiring the data required by the Energy Services Operator (ESO) to issue **White Certificates**.

The outcome of the monitoring and analysis is summarised in an **Energy Audit** which sets out the energy health of the company and identifies measures for improvement. To ensure that the improvement is continuous, the Energy Audits have a periodicity of at least four years, thus verifying the results achieved and the new objectives to be set.

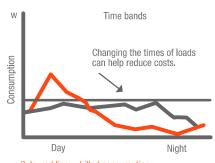
An adequate energy consumption monitoring and analysis system is the principle ally of the company's **Energy Manager** in the difficult task of planning the efficient use of energy resources.

We indicate below the principal factors considered in an effective energy analysis:

Using no more energy than necessary

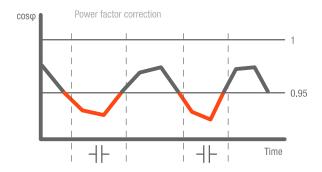


Flattening off demand



Coloured line = billed consumption

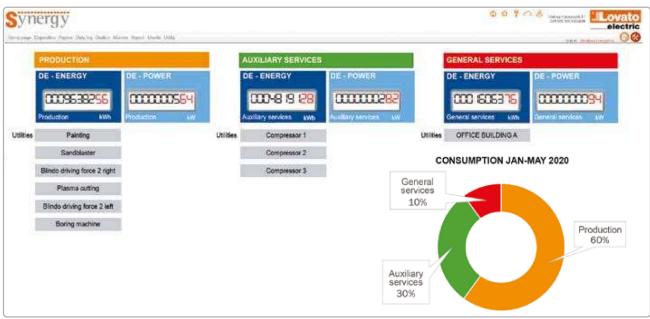
Avoiding penalties



Identifying mains supply disturbances

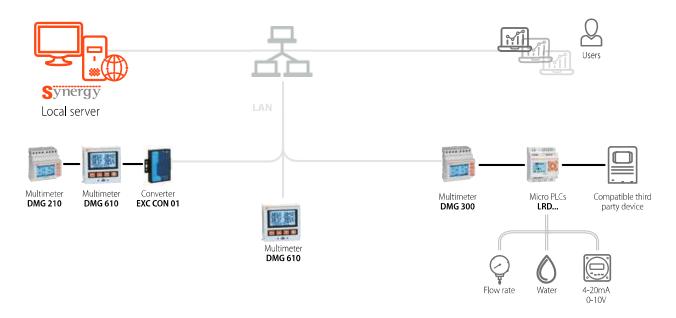


Division of energy

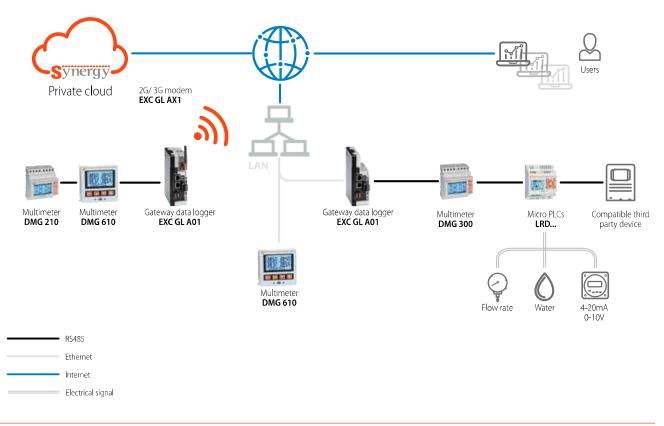




Synergy On Premises On Site (physical or vurtual server)



Synergy On Premises On Customer Cloud (cloud-based server)





Synergy Cloud

In this solution, **Synergy** is supplied with a subscription service which provides a LOVATO Electric cloud server running **Synergy**.

Synergy Cloud allows you to check and display the electrical and power parameters of your field devices without having to install any software and without needing a dedicated server at your premises.

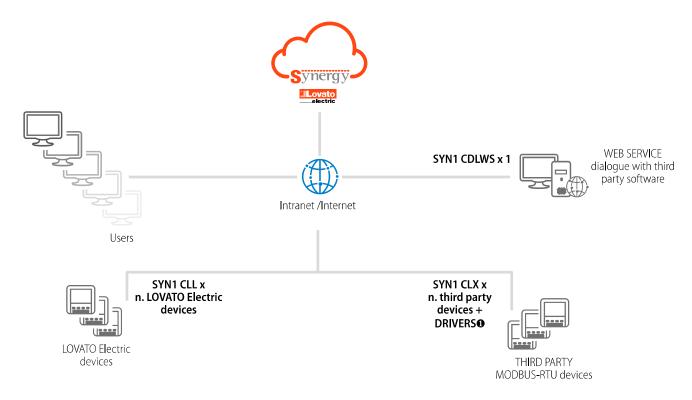
The field devices are configured as Clients which send the monitoring data to the Synergy Cloud server, in two possible ways:

- via https using the local EXC GL A01 gateway data logger (recommended option);
- via a specific comms port assigned by the Cloud server (this must be checked by LOVATO Electric Technical Support).

The EXC GL A01 gateway data logger collects the data from the field devices connected via an Ethernet or RS485 serial port. Supports the Modbus RTU, ASCII and TCP protocols.

Access to internet for data is provided by an Ethernet port or by adding the accessory EXC GL AX1 2G/3G modem.

Order code	Description	Packages
SYN1 CLL	Enables the supervision function for each LOVATO Electric device equipped with MODBUS-RTU communication port.	Annual subscription license (365 days) for each device
SNY1 CLX	Enables the supervision function for each third party device equipped with MODBUS-RTU communications port.	Annual subscription license (365 days) for each device
SYN1 CDLWS	Enables WEB API access to Synergy's MS SQL database by third-party software	Annual subscription license (365 days)



● Contact our Technical Support office (Tel. +39 035 4282422; Email: service@LovatoElectric.com).



Synergy Cloud

