

Single unit solution

Installation failures and related downtime of the telecom site is a major constraint in today's tower management. The elgris TELECOM solution is a single unit solution where all components are integrated.

This includes the generator input including overvoltage and overcurrent protection, the load management system, the main system controller, the output conditioner unit and optional the DC and AC distribution board.

The flexible standardized enclosures also houses the batteries and can be placed indoors. When there is no space in the shelter, the units can also be delivered in IP55 protection class.



elgris TELECOM with integrated storage



elgris TELECOM with external storage

Remote monitoring

The elgris TELECOM main controller is a versatile controller. Standard interface includes Ethernet (HTTP, FTP and SNMP), RS-485 (MODBUS RTU) and optionally CAN J1939 for interfacing with modern diesel generators.



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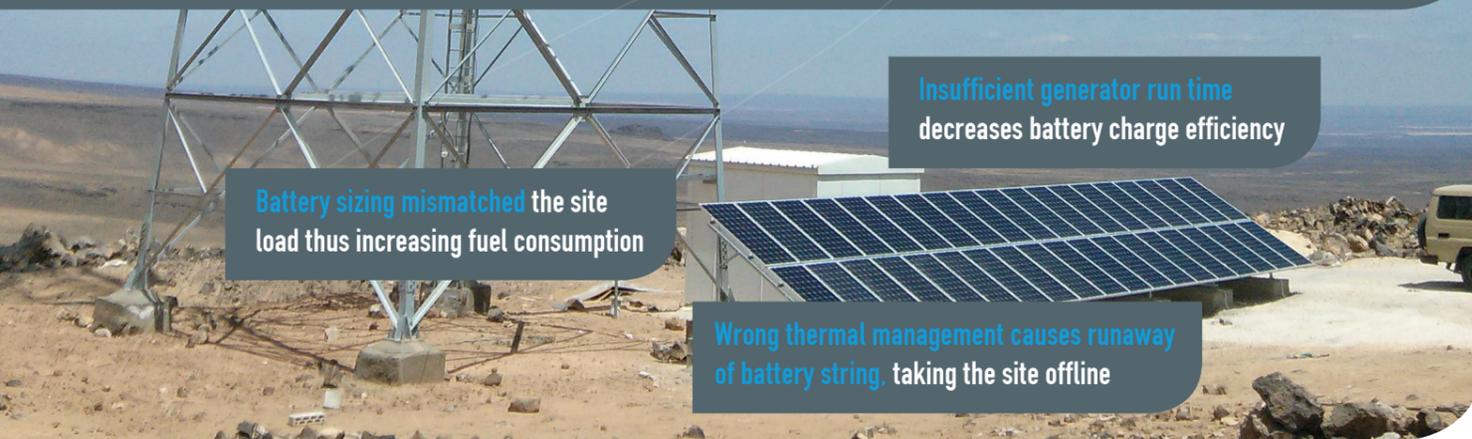
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elgris TELECOM solutions

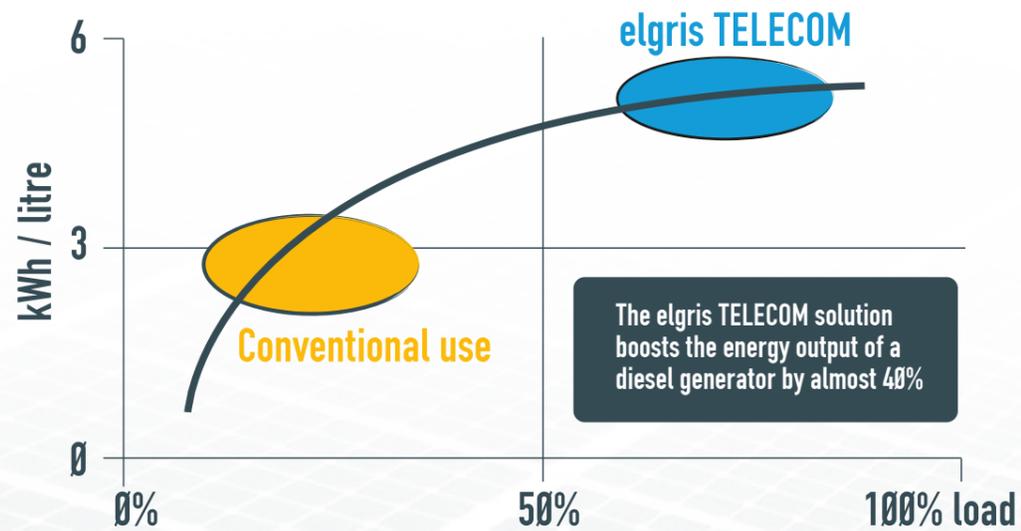
We have the technology to overcome operating challenges



Solar Hybrid for Telecom applications

Most of the telecom antenna systems which are located in off-grid areas are powered by Diesel generators. Not only the fuel consumption is expensive but also the maintenance and logistic is a challenge.

elgris offers a reliable hybrid power solutions based on efficient solar power and a high quality storage system which needs no cooling and thus reduce power consumption.



The elgris TELECOM solution

The elgris TELECOM solution is an innovative approach combining a new or existing generator with the latest development in battery technology.

The whole system is being controlled by a state-of-the-art control and monitoring system. Optionally a renewable energy source like solar energy can be connected to the system.

The remote monitoring and the automatic notification on alerts ensures that the operator is informed with the real time data of the power supply on the telecom sites.

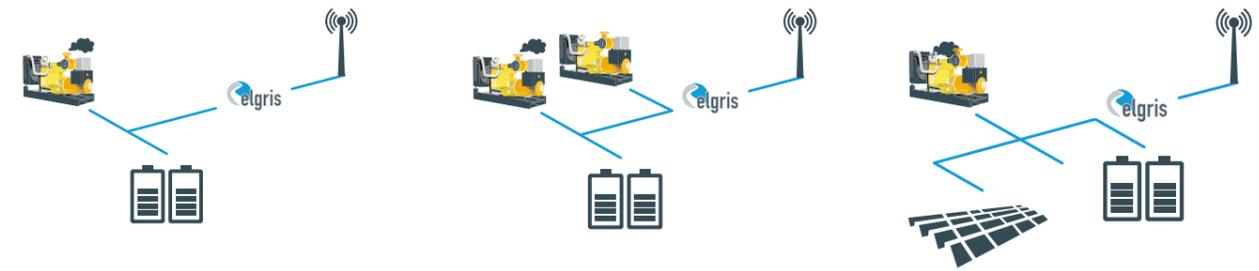
Preventive maintenance can be scheduled based on actual needs and can be as less as four times annually.

Flexible layout enables economy of scale from the first site on

Since the elgris TELECOM solution can be easily adopted to the needs of our clients, there is no limitation in terms of power, footprint or number of sites.

Optionally, the system can be extended by multi genset input, an ATS, uninterruptable power functionality, renewable energy etc.

The standard solution is the elgris TELECOM system including single generator input, load depending battery storage an output conditioner unit and the elgris controller.



Wide temperature range batteries reduce power consumption

By using wide temperature range batteries which can withstand temperatures up to 60 degree and can be charged and discharged even at minus 40 degree, there is no need for additional cooling or heating for most regions.

The use of high temperature batteries in the elgris TELECOM solution is an additional benefit in reducing fuel consumption given the fact that over 50 percent of the energy consumption is dedicated to the environmental control system.

