



Cut the use of diesel – is the telecom solution for all needs



It is the site solution that substantially reduces OPEX, one of the major challenges today. Mobile telephony is spreading to remote locations, fuel costs are rising and sustainable solutions are required. E-site® has been built with all these aspects in mind.

It runs on wind and solar energy and is specially designed for off-grid locations and remote sites with limited access to infrastructure. As such, E-site® is the ideal choice for emerging markets where telecom expansions and upgrades of existing telecom infrastructure are required.

It requires a very small foot print. The complete solution uses a single tower for both the wind turbine and the telecom equipment. Furthermore, E-site® Modular is an outdoor cabinet site solution based on

a flexible modular design. It is ideal for outdoor base station solutions, upgrades of existing sites and in site sharing scenarios.

With it fuel consumption can be reduced by up to 90 percent, while operational costs are drastically lowered. This means highly increased revenues and profitable means of expanding telecom networks in new markets, combined with great consideration for environmental impact as the reduction of emissions is also substantially lowered.

With it comes a complete, flexible and intelligent solution, with technology that adjusts in real time to conditions on site for optimal energy efficiency. Other advantages include delivery from a single supplier and fast, secure site commissioning.

MAXIMUM IMPACT ON YOUR BOTTOM LINE – MINIMAL IMPACT ON THE ENVIRONMENT

- A SUSTAINABLE SITE SOLUTION

It runs on wind and solar energy. The power generated is stored in a battery bank and a back-up source is provided for secure operation at all times. The exact E-site® configuration is determined by local climate conditions.

MODULAR – FOR ANY SITE CONFIGURATION

Modular is an outdoor cabinet site solution based on a flexible modular design. It is ideal for upgrades of existing sites with renewable energy, for outdoor base station solutions and in site sharing scenarios. Its modular design provides a platform for various site configurations, and is designed to meet the customer's current and future requirements.

COMMUNITY POWER – EXCESS POWER TO THE COMMUNITY

The Community Power provides the option of distributing excess power to community applications outside the telecom site. It combines a sustainable telecom solution with the potential to use surplus energy from renewable sources to provide power to the surrounding community.

The excess power solution includes measurement and control systems to ensure that external power distribution beyond the telecom site is scalable, secure and efficient. This is accomplished using built-in communication over the power cable. The solution provides priority and control between different distribution points to ensure that the telecom equipment's operation is never compromised.

DIRIFLEX® MAKES OPTIMIZATION POSSIBLE

It optimizes the use of renewable energy by adjusting in real time to current conditions on site. Advantages also include increased energy efficiency and component lifespan and reliable, functional operation, along with substantially lower operational costs and emissions.

Diriflex® controls all input power units and control parameters, including continuous measurement of currents and voltages.

DIRIFLEX® REDUCES TOTAL OPEX

- ENERGY SAVINGS THROUGH EFFICIENT, OPTIMIZED USE OF RENEWABLE SOURCES IN AN INTEGRATED SYSTEM
- PROLONGED LIFE EXPECTANCY FOR EQUIPMENT DUE TO CONTROLLED, EFFICIENT OPERATION
- INCREASED RELIABILITY AND SAFE OPERATION
- REMOTE CONTROL AND DATA COLLECTION

WIND GENERATOR FOR TELECOM SOLUTIONS

It has low-maintenance wind generators that are developed for telecom solutions. This means that the mast or tower for the wind generator can also carry the antennas and microwave links for the telecom site. The material and surfaces of the wind generator are salt resistant and provide protection against airborne sand. The generator and the brake mechanics are also protected against sand penetration.

Power System Description

