

Efficient Energy Solutions

Lowering the Operating Costs of Telecom Sites



bringing green to telecom

Harris Stratex Networks offers innovative energy saving solutions to reduce operating costs of telecom sites, downtime, maintenance and to extend equipment life cycle.

EfficientSite™

Intelligent Controller

Convection Cooling

Hybrid Energy

Energy Optimizer

Design and Deploy

Operations and Maintenance Support

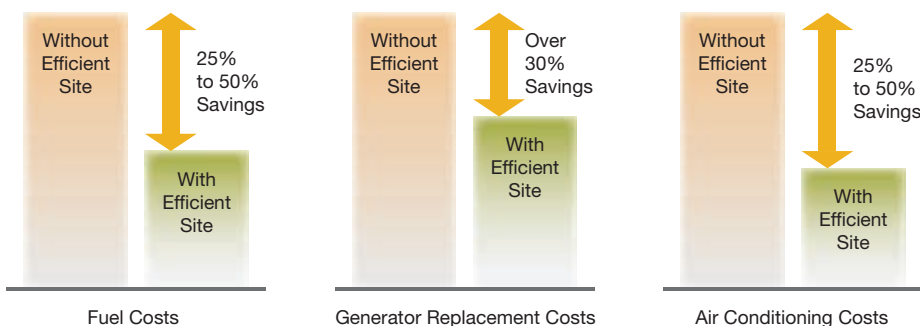
Skyrocketing Energy Costs

Telecom site operators around the world are grappling with exploding energy costs. This problem is more pronounced in locations where grid power is scarce and is supplanted by diesel generators.

EfficientSite™ provides a comprehensive energy solution designed to reduce site energy costs. It is an integrated platform of several green technologies including forced convection cooling, hybrid power using batteries and diesel generators, and intelligent software algorithms optimized for each site to minimize energy costs.

Major Solution Highlights

- **Immediately reduce cell site diesel fuel and energy costs –** Forced convection cooling, A/C usage algorithms and cycle charge technologies can immediately reduce diesel usage and grid power use.
- **Extend the run life of high maintenance equipment –** Intelligent site controllers extend the run life of generators and HVAC (Heating, Ventilation, and Air-Conditioning) equipment through optimized cycling algorithms and cycle-charge systems.
- **Track true fuel usage and reduce theft –** Advanced fuel monitoring sensors and systems track true fuel costs and provide accurate verification of refueling operations.
- **Intelligent operations planning and maintenance –** Infrastructure sensors and remote monitoring systems give a true picture of equipment state and wear. Intelligent operations management software supports efficient and proactive maintenance reducing maintenance cost and protecting network availability.
- **Green technology –** Reduce diesel consumption and lower CO₂ emissions.



Hybrid Energy

EfficientSite includes an hybrid energy solution that cycles between a generator and stored energy from a battery source to power a cell site. If the cell site is currently powered mostly by a diesel generator, the addition of a bank of batteries and an intelligent controller can result in dramatic fuel savings. The cost of this solution can be paid back in the diesel savings alone in a matter of months.

Convection Cooling

A major benefit of the EfficientSite solution is the removal of the heat generated by equipment with a highly efficient forced convection cooling system.

When the convection cooling system is turned on, the HVAC is turned off. Since the HVAC uses significantly more power than the convection cooling system, the reduction in energy costs is immediate and dramatic.

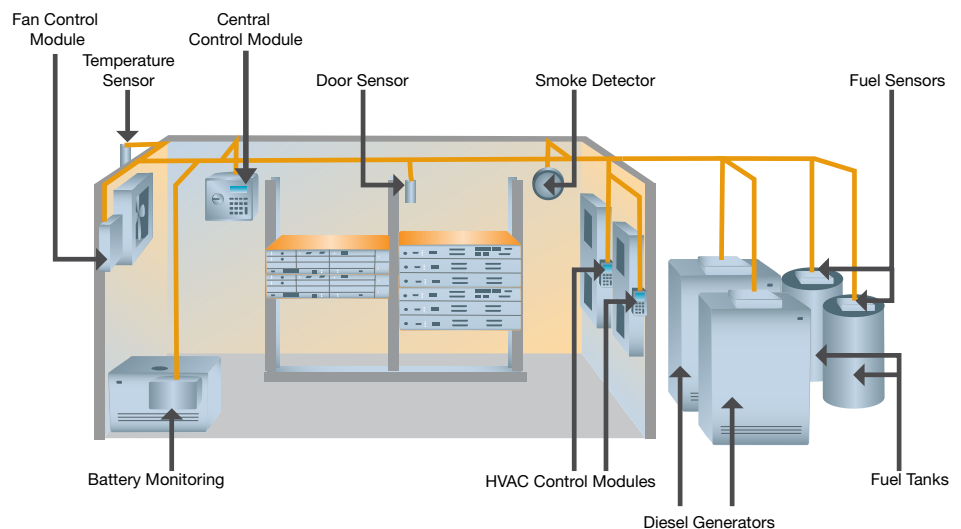
Additional Benefits

- Seamless integration with Harris Stratex SecureSite™ security solution
- Runtime reports of generator, air-conditioner and battery systems
- Fuel usage reports and trend analysis for proactive maintenance
- Fully compatible with existing Harris Stratex network management systems

Product Offerings

- **Intelligent Site Energy Controller**
Provides command and control capabilities of the entire system from a Network Operation Center (NOC).
- **Convection Cooling System**
Forced convection cooling significantly reduces energy consumption in a telecom shelter.
- **Hybrid Energy Solution**
Uses energy efficiently by cycling between diesel generators and deep discharge batteries.
- **Fuel Monitor**
Specialized fuel sensor technology communicates accurate fuel level and consumption rate to the NOC for control and trending.
- **Energy Optimizer**
Site data is collected and compiled to optimize the site energy profile for maximum energy efficiency.

- **High Duty Cycle Battery System**
Optimal battery technology for power cycling design reduces replacement costs while ensuring reliable backup power.
- **Installation**
Professional installation teams assure cost-effective, high quality, and on-schedule implementation.
- **Operations and Maintenance Support**
On-going maintenance support services or turnkey end-to-end managed services are available.
- **Turnkey site build**
Complete site build services including shelters and power systems are available.



www.harrisstratex.com



Harris Stratex Networks, EfficientSite, and SecureSite are trademarks or registered trademarks of Harris Stratex Networks Operating Corporation, a wholly owned subsidiary of Harris Stratex Networks, Inc. and/or its subsidiaries in the United States and other countries.

© Harris Stratex Networks, Inc. 2008
Data subject to change without notice.

d_univ_energy_100308

