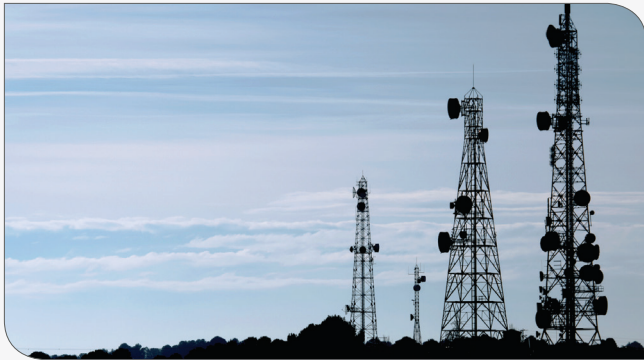


Cell Sites Remote Monitoring

Today BTS are one of the most dependable infrastructures for most businesses, delivery of continues quality communication defines leading carriers.

- Site downtime creates huge losses to the operator.
- Carrier switch/cell sites is a large-scale energy consumption, 70-80% of the energy in a network is consumed by the cell sites
- Power management and Hybrid activation are essential for energy efficiency.



Galooli offers a unique Cell Site remote performance and analysis solution, as part of its telecom optimizing solutions.

- Operational Benefits
 - Business continuity/revenue protection-preservation
 - Increase network uptime
 - Maintain uptime of mission critical equipment
- Cost Reduction
 - Operational Expenses (OPEX)
 - Save on unnecessary refueling/maintenance trips
 - Maintain equipment and peripherals in optimal condition
 - Early and rapid detection to support reaction to remote site events
 - Early warning of equipment operational deviations-reprioritize preventative maintenance across the fleet
 - Reduce generator fuel consumption
 - Detect and monitor fuel “shrinkage” and fuel invoice errors
 - Capital Expenses (CAPEX)
 - Monitor, manage and maintain equipment to increase its life cycle

Solution Features

- AC Supply Monitoring – I/O's and battery cells
- DC Supply Monitoring – I/O's and battery cells
- Hybrid monitoring and activation
- Optional Peripherals:
 - Communication room temperature
 - Site access/intrusion
 - Power monitoring
 - Tower light
 - Access control
 - Additional sensors per request
- Battery Management:
 - Cells voltages are constantly monitored and performances are logged
 - Weak cells are early identified for rehabilitation or replacement
 - Logs are available on remote request or send at required intervals
- Generator monitoring:
 - Battery voltage
 - Engine/Standby hours
 - Temperatures/pressures
 - Engine speed
 - Power monitoring
 - Up to 70 other engine data parameters
- Fuel monitoring:
 - Fuel amount
 - Refueling events and amount dispensed
 - Fuel consumption rate
 - Theft detection
- Operation:
 - Operator ID
 - Real time location
 - Remote control
 - Preventive maintenance
- Reporting
 - Automatic alerts to back office, e-mail and mobile phone
 - Operational reports
 - Option for real-time video solution
 - NOC interface