OMNIMETRIX
GLOBAL MONITORING + CONTROL

OMNI360 Nova

TELECOM MANAGED SOLUTION · Cell-site & tower monitoring
Power · Generator · Battery Monitoring
Includes: Entry tier — base of OMNI360

Stop Outages Before They Become Penalties.

Nova continuously monitors the four systems most likely to cause an unmanned cell-site outage: generators, fuel, batteries, and commercial power. Real-time telemetry, configurable alarm thresholds, and Omnimetrix NOC support keep operators ahead of SLA penalties, battery failures, and fuel depletion — the three leading causes of field-escalation events.

$1K–$5K
Per-hour SLA penalty range for cell-site downtime under typical carrier and tower-lease agreements.

$5K–$20K
Typical cost of a single cell-site outage including dispatch, fuel, and SLA exposure.

$15K–$40K
Replacement cost per battery bank lost to thermal failure, deep-discharge, or theft.

WHAT NOVA MONITORS

1 Generator Health
Runtime confirmation, auto-start verification, oil pressure monitoring, coolant temperature trending, charging voltage, and scheduled exercise-cycle tracking. Threshold alerts notify operations before the generator reaches a failure state, eliminating the "failed to start" discovery event at the next dispatch.

2 Fuel Level & Theft
Continuous tank-level monitoring with consumption-rate baseline and anomaly detection. Identifies slow drains, theft siphon patterns, and supply-truck discrepancies. Configurable pre-alarm threshold (e.g., 25%) ensures re-fuel dispatch before the site reaches minimum runtime margin.

3 Battery String
Individual string-voltage and DC bus monitoring detects cell imbalance, deep discharge, and the DC-anomaly signature of in-progress battery theft. Trending data surfaces degrading strings weeks before a failure event, enabling planned replacement versus emergency dispatch.

4 Commercial Power
Continuous utility-power monitoring triggers an immediate alarm the moment the site transitions to backup. Phase-voltage deviation and power-quality events are logged, enabling root-cause analysis for recurring outages tied to grid instability rather than site equipment.

5 Auto-Transfer Switch
ATS position and transfer-event monitoring verifies the generator actually picked up the load after every grid-loss event. Failed-transfer and slow-transfer alarms catch the class of ATS fault that leaves a site on degraded backup without triggering a visible outage until batteries are depleted.

6 24/7 NOC Proactive Support
Omnimetrix Network Operations Center provides continuous alarm monitoring, triage, and escalation. NOC analysts distinguish nuisance alarms from real events, coordinate dispatch, and maintain a documented response log — reducing field-team workload and ensuring SLA-critical events reach the right person in minutes, not hours.

THE BUSINESS-CONTINUITY ARGUMENT

Industry data places typical cell-site outage cost at $5,000–$20,000 per event once dispatch, fuel, and SLA penalties are included. Generator and fuel monitoring is the single most effective control against the leading cause of cell-site outage: fuel depletion and unattended generator failure. Nova pays for itself by preventing roughly one outage every two years — and the typical break-even in practice is faster.

Disclaimer: Equipment configuration may differ per site based on assessment. Installation costs are billed separately following installation.

Figures cited represent documented industry ranges. Insurance outcomes vary by carrier, policy terms, site characteristics, and underwriter discretion.

RISK → VALUE MAPPING

Risk Category	Annual Exposure	How Nova Addresses It
Generator / power failure	**$5,000 – $20,000 per outage**	Runtime tracking, auto-start verification, ATS confirmation, and oil/coolant monitoring detect failures before the site goes dark. Exercise-cycle logging satisfies carrier maintenance documentation requirements.
Battery theft / failure	**$15,000 – $40,000 per bank**	String-voltage monitoring detects deep discharge and the DC anomalies associated with in-progress theft. Trending surfaces degrading cells weeks before failure, enabling planned replacement versus emergency dispatch.
Fuel theft / depletion	**Lost runtime + outage cost**	Consumption-rate baseline and anomaly detection expose slow leaks, theft siphon patterns, and supply discrepancies. Pre-alarm threshold ensures re-fuel dispatch before minimum runtime margin is reached.
SLA / business interruption	**$1,000 – $5,000 per hour**	NOC-triaged alerts compress time-to-response from hours to minutes. Documented alarm logs support SLA dispute resolution and carrier audit requirements.

WHO NOVA IS FOR

Nova is the entry-tier OMNI360 service — the right starting point for operators whose primary exposure is power-related downtime. It delivers the full Omnimetrix monitoring backbone without the environmental sensors of Horizon or the security suite of Zenith, and upgrades cleanly to either tier as a site's risk profile evolves.

Tower & Co-Lo Operators

Multi-tenant towers where uptime SLAs and lease penalties dominate the loss profile.

Distributed Carrier Sites

Macro and rural cell sites where fuel runouts and unattended generator failure are the top outage drivers.

Critical-Infrastructure Backups

Public-safety, 911, and utility comms sites where backup-power readiness must be continuously verifiable.

Ready to upgrade unmanned sites into supervised assets?

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