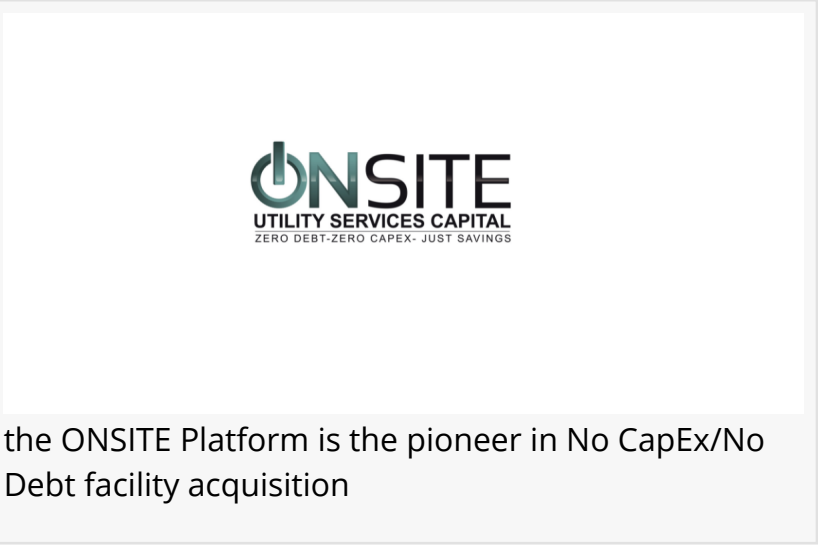
National Wireless Carrier Cuts Remote Tower Operating Costs by $1.9 Million a Year With Supercapacitor Storage

A hybrid generator-supercapacitor system slashes diesel fuel and maintenance expense across 15 off-grid cell towers, with zero capital and zero debt



the ONSITE Platform is the pioneer in No CapEx/No Debt facility acquisition

LOS ANGELES, CA, UNITED STATES, September 29, 2026 / EINPresswire.com/ -- A national wireless carrier has cut the annual operating cost of 15 remote, off-grid cell towers by nearly $1.9 million, ONSITE Utility Services announced, after a supercapacitor storage upgrade let the towers' diesel generators run at full, efficient capacity instead of idling around the clock.

Each of the 15 towers sits in terrain so isolated it had to generate its own electricity using diesel fuel 24/7. The rugged locations made fuel delivery, fuel consumption, and generator maintenance extremely costly, totaling $2,539,000 every year. ONSITE conducted a full review of 12 months of fuel and maintenance records and modeled the equipment's behavior and load profiles, finding that the existing generators were running inefficiently at low loads, where diesel engines burn more fuel per kWh and wear out faster.

> When a cell tower is hours from the nearest road, every gallon of diesel and maintenance trip is expensive. This fix to efficiency cut carrier's cost more than 75% without changing field SOP.”
>
> *Fritz Kreiss, CEO and Founder*

ONSITE's team evaluated how adding supercapacitor battery storage could transform the operating profile. By allowing the generators to run at full, efficient capacity and store the excess electricity in supercapacitors, the towers could operate primarily off stored energy, dramatically reducing generator runtime, fuel consumption, and maintenance hours, with no operational changes required from the carrier's team.

The entire project, including installation and ongoing supercapacitor maintenance, was delivered through ONSITE's Energy-as-a-Service platform at zero capital investment and zero debt. At the end of the five-year service term, ONSITE abandons the equipment and the carrier keeps 100% of the ongoing savings.

Key Results:
- Annual fuel and maintenance costs cut from $2,539,000 to $603,166
- $1,935,834 in total annual savings
- $30,179 in net monthly savings during the 5-year service term
- $14,323,748 in projected 10-year net savings
- $5,869,228 in capital retained by the carrier

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