Reducing CapEx and OpEx Expenses with the Evoltix Vault Power Shelter

Comparing off-grid telecom power solutions: traditional diesel generator and shelter systems vs. the Evoltix Vault Power Shelter

85%
CapEx Savings*

90%
OpEx Savings*

3 yrs
To pay for itself

$650k
Saved over 10 yrs

In off-grid communications infrastructure, a diesel generator is typically used for power with a shelter integrated on-site to house and operate communications equipment. This report showcases the substantial capital expense (CapEx) and operating expense (OpEx) reductions offered by Evoltix's all-in-one Vault Power Shelter when compared to traditional shelter and diesel genset configurations assembled on-site.

Background

Evoltix developed a performance and costing model using empirical data gathered by the company's IntelliCore software at active customer deployment sites. This performance and costing model is used by Evoltix to help customers compare configurations, optimize power management performance, and determine site-specific costing. At the core of every Vault Power Shelter is Evoltix's Zero-Glitch Power Module™ (ZPM) with IntelliCore software that provides uninterrupted power, real-time operational visibility, data logging, alerts, and site performance insights.

For this comparison, a potential customer's New Mexico site analysis was chosen utilizing a Vault Power Shelter including lithium-ion batteries, ZPM, five integrated solar arrays, and a propane generator. Significant CapEx and OpEx savings are demonstrated when compared to an on-site integrated diesel-forward solution.*

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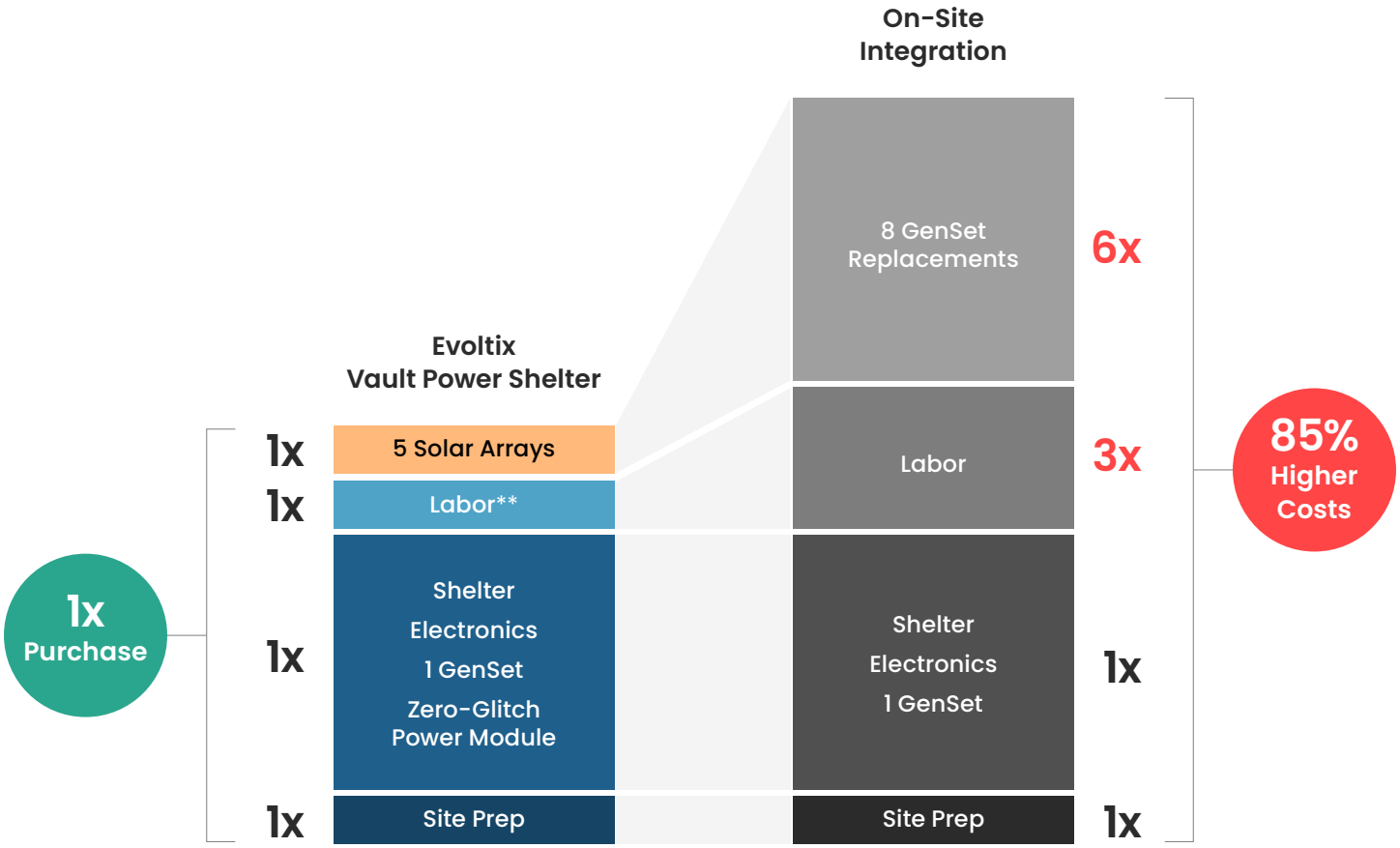
CapEx Savings

Each Vault Power Shelter is turnkey and shipped ready to deploy. Other solutions consist of disparate equipment that requires intensive architecture, engineering labor, and on-site integration. Evoltix's turnkey Vault Power Shelter reduces site integration labor costs by more than two-thirds while enhancing system quality and reliability. The Vault Power Shelter's battery-forward architecture and integrated renewables eliminate the need for continual genset replacements (typically required every 10,000 runtime hours). These combined benefits reduce overall CapEx by 85%* and enhance operational resilience, quality, and proactive site management.



> These findings validate what our customers are already experiencing in the field—significant cost savings, faster ROI, and a resilient and reliable power supply that scales with demand."
>
> **JOE KESSINGER** | Evoltix CEO

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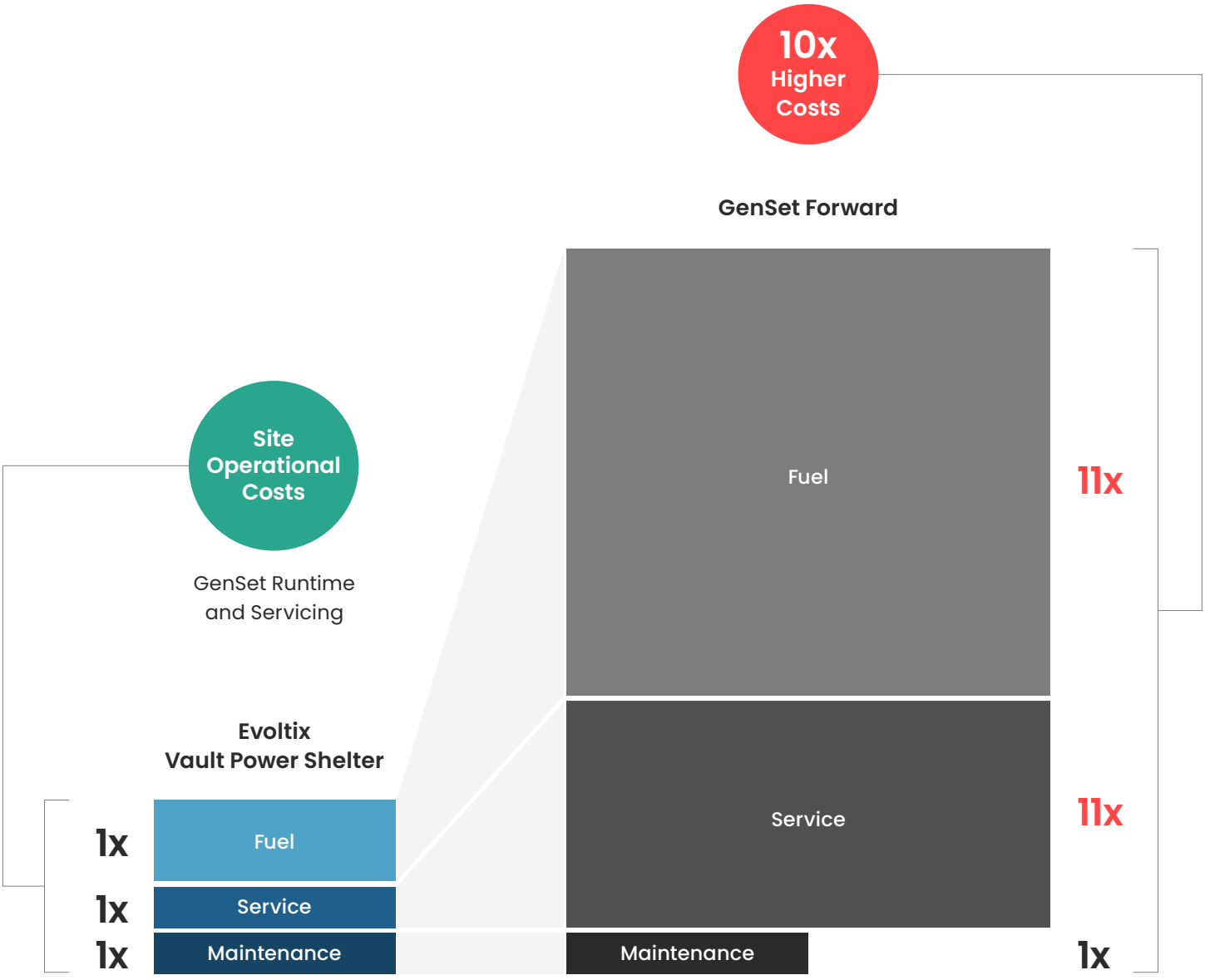
OpEx Savings

Unlike traditional, always-on diesel generator setups, Evoltix's Vault Power Shelter — powered by Evoltix's proprietary ZPM technology — features a battery-first design, region-specific solar array configurations, and intelligent power management. This reduces generator runtime by over 90% and provides proportional reductions in fuel consumption and maintenance costs equaling more than $650,000 in dollars saved over 10 years.*



Get in touch to learn more or to run a financial savings scenario for your communications sites. powered@evoltixenergy.com

* Results may vary by site location, renewable and storage options, and cost fluctuations in fuel, materials, and labor rates.
** The Vault Power Shelter is shipped fully integrated, tested, and ready to deploy.

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