

7 Ways TOTUS Transformer Monitoring

Pays for Itself

Today, transformer monitoring can no longer be viewed as a “nice to have”; it must be viewed as a core pillar of grid resilience. Transformer monitoring delivers real time visibility of transformer health, allowing issues to be detected earlier, supporting targeted maintenance, and preventing failures.

The result? A monitoring system that doesn't just pay for itself... but often pays for itself many times over.

1 Stop one outage, pay for the whole system.

Unplanned transformer outages routinely cost utilities hundreds of thousands. Avoiding even a single event often delivers **5–10x ROI**.

2 Eliminate expensive emergency callouts.

Emergency repair premiums can run 2–4x higher than standard OPEX. Prevent just one “middle of the night” failure and the **ROI can be achieved right away**.

3 Protect a transformer

A transformer replacement can cost millions. Continuous monitoring, in comparison, is a fraction of that - meaning one saved asset can unlock **>50x ROI**.

4 Stop collateral damage before it cascades.

Secondary failures often cost more than the transformer itself. Early detection can prevent multi-asset impacts and deliver **10–20x ROI**.



5 Cut avoidable site visits with targeted maintenance.

Condition based insights reduce unnecessary O&M trips, saving time, fuel, manpower, and budget - with recurring ROI that **compounds month after month**.

6 Prevent forced outages and protect revenue.

Across the energy network, uptime equals value. A single forced outage impacts capacity, revenue, customers, and compliance - each avoided event can deliver **3–10x ROI**.

7 Enterprise-level stability across your entire fleet.

Monitoring at fleet scale shifts the value from “per transformer” to a strategic resilience tool. Fleetwide visibility **delivers exponential enterprise-level ROI**, driving financial, regulatory, safety and operational improvements.

Early Detection vs. Failure: Real-World Outcomes for a Leading European Utility.

Impact for utility with TOTUS installed	Financial impact with no monitoring solution implemented		
<p>€9k planned intervention</p> <p>Labour (1 day): €1k Offline assessment: €3k New bushing: €5k</p>	<p>€220k unplanned failure cost</p> <p>Replace remaining 63 kV bushings: €10k Cleaning: €10k Expert assessment + restoration: €200k</p>	<p>€1.8m catastrophic failure cost</p> <p>Bay repair: €30k Collateral damage (e.g., 225 kV breaker): €70k Decontamination: €50k Disposal of destroyed transformer: €100k Replacement transformer: €1,000k Transport (6 months): €420k Installation & commissioning: €120k</p>	<p>>€3m major asset loss exposure</p> <p>>100 mVA transformer 36–48 months lead time</p>



Discover your potential ROI from Transformer Monitoring

