Global Data Asset Collaborative: Transformers

Collaborative, Privacy-Preserving Analytics to Improve Grid Reliability

GDAC™ members have more robust analytics than a single utility has alone,

thanks to benchmark comparisons with other member utility's fleets, a key differentiator of GDAC™. Typically, most transformer analysis only covers a subset of a utility's fleet. GDAC™ analysis includes oil, DGA, Furan, and other measurements, at the full fleet level. By doing so, utilities decrease the risks of transformer failure, improve SAIDI and SAIFI performance, reduce asset management capital expenditures, and streamline O&M costs.

Benefits of GDAC™

Access to comprehensive data
System utilizes data from nearly 40,000+ readings, 1,000+ transformers, 40+ manufacturers, 4kV to 138kV, dating back 30 years
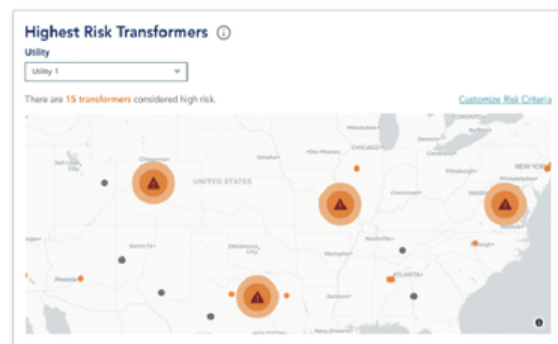
Strong ROI
Members report a 5x return on investment within the first year of implementation

Millions in savings
Savings from averted failures, outages, and emergency corrective maintenance are estimated in the millions

A solution to growing transformer management challenges - GDAC™

Unlock significant ROI potential using a members-only portal, which includes:

- A new, open-source, standards-based Condition Based Rating (CBR) of transformer condition

- Proprietary comparisons of specific equipment from different transformer manufacturers

- One to ten year forecasts for the conditions of individual transformers or transformer fleets

Trusted by

Hawaiian Electric

vector

Many utilities face transformer management challenges, including:

- Rising numbers of transformer failures existing, analysis tools should anticipate, but do not

- Rising number of transformer failures from causes that existing tools cannot anticipate

- Difficulty prioritizing transformer replacement across manufacturers

- Loss of staff with subject matter expertise without replacements or alternatives

- Stronger supporting evidence required to acquire new transformers

- Imprecise guidance for optimizing transformer purchasing and spares planning

Why members choose to join GDAC

Collaboration

By pooling data from multiple utilities, robust quantities of data are made available for AI to predict transformer health 1-10 years in advance

Data privacy

GDAC™ provides a secure way for utilities to pool data about their transformers without compromising data privacy

Analytics

Insights are made available on-demand to asset managers in one place, in the convenience of a web-based portal

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"GDAC™ helped me to make decisions on asset priorities in just days. This analysis would have taken me a year to pull together previously."

Current **GDAC** member, Asset Management

Tackling supply chain challenges with GDAC™

Utilities are experiencing interrupted supply chain networks, shortages, and long lead times for essential pieces of equipment like substation transformers. These shipping and manufacturing delays are causing a critical need for spares, now more than ever. With this new environment, utilities rely on GDAC™ to pinpoint exactly what replacement and maintenance decisions to prioritize and when.

Interested in learning more about what GDAC™ can do for you? Reach out to us:

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