

COMPANY SPOTLIGHT
DELTA-X RESEARCH

“Applying science to transformer risk management”



Photo: Delta X Research

DELTA-X RESEARCH is trusted by 14 of the top 20 electric utilities in the USA to help safeguard their critical assets. Founded in 1992 and headquartered in Victoria, BC, Canada, Delta-X Research provides science-based decision-support tools that help electric utilities and energy-intensive companies assess the health and operational risk of their high-voltage apparatus.

Assessing high-value assets (like power transformers) using conventional diagnostic methods does not always detect fault conditions and occasionally raises false alarms. A better approach is to understand the relationship between observable test parameters (e.g. dissolved gases) and actual equipment failures. Using advanced statistical analysis, apparatus at risk-of-failure is more correctly identified and the risk of continued operation can be explicitly quantified.

Pushing past conventional paradigms

Our decision-support tools – Transformer Oil Analyst™ (TOA) and Monitor Watch – manage and interpret insulating liquid test data, including dissolved gas analysis (DGA) to:

- More correctly identify abnormal apparatus behavior to avoid unplanned outages and false alarms.
- Prioritize your transformer fleet for repair-or-replace decisions;
- Maximize return-on-investment on aging assets and capital expenditures;
- Evaluate risk for better risk management and efficient maintenance.

TOA uses Reliability-based Dissolved Gas Analysis, an innovative method for interpreting DGA data that more correctly detects transformer abnormalities earlier and avoids false alarms. With Delta-X Research's reliability-entered approach, a utility's maintenance and asset management strategies can be elevated without changing any fundamental business processes. We lead with science.



Our products and services are built using the scientific method. This means we welcome questioning and constructive criticism because they help us improve our offerings. In a conservative industry, Delta-X Research is trusted to innovate in a responsible way.

We work hard to make it easy

Interpreting test and monitor data can be hard... our job is to make the complex simple. We invite customers to talk directly to our scientists so you can ask questions and get the information you need to make critical decisions with confidence. Our open, secure solutions give you unfettered access to leverage your data 24/7.

Our independence is your independence

Commitment to science means commitment to objectivity, which gives us the freedom to be independent and neutral. We work with all other companies and laboratories, so you can choose your suppliers to assemble a complete best-in-class and best-fit solution. Regardless of the data source, knowing that your data is secure and is interpreted in a consistent manner supported by sound science allows you to manage risk with confidence.

A community of peers

When you work with Delta-X Research, you join a community of transformer engineers committed to sharing knowledge, advancing science, and helping one another. This collective not only has a remarkable 99% renewal rate but also plays a role in advancing our scientific research and refining our decision-support tools.



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