

DGA / Transformer Monitoring Survey Results



October 2012

Transformer Monitoring Survey

Over a period of 3 months in 2012, LumaSense Technologies conducted a global survey related to online Dissolved Gas Analysis and Transformer Monitoring. The survey was implemented via online, written and verbal interviews. The following slides highlight the key points of the survey.

Survey Key Points

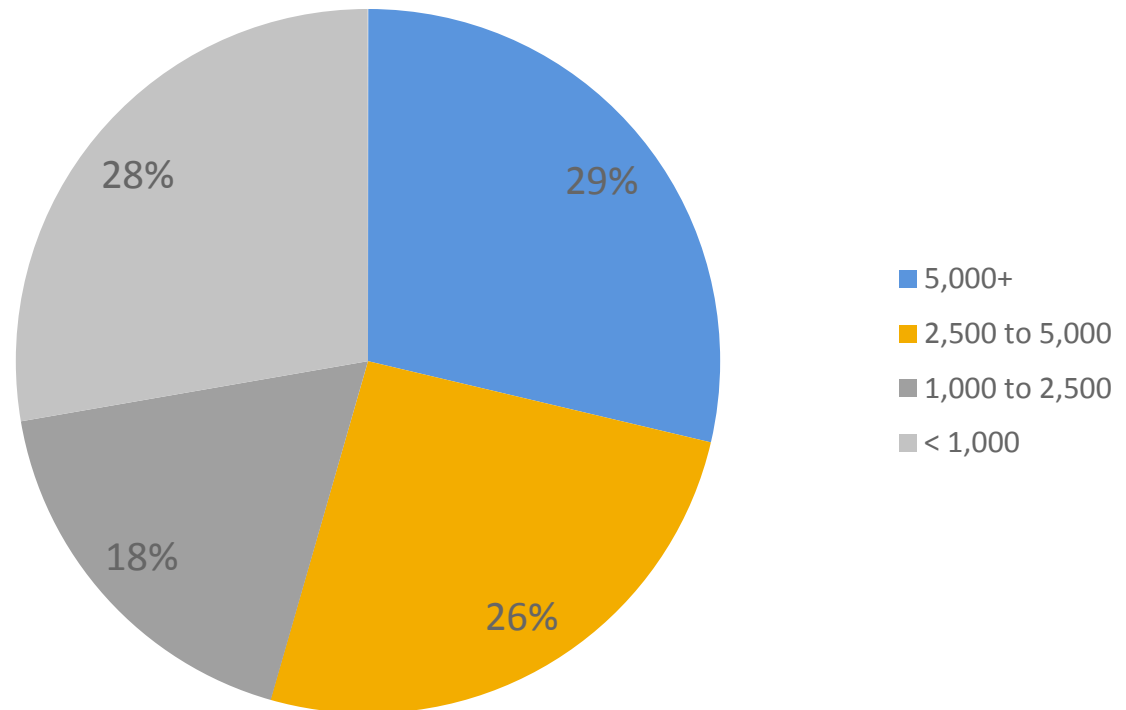
- **94%** of respondents consider Online DGA **important**
- **44%** of respondents stated that **0-10% of their transformers have online DGA monitoring**
- Top 3 Items to **Monitor on a Transformer**
 - Transformer DGA
 - Load Tap Changer (LTC) DGA
 - Winding Hot Spot
- Top 3 **Gases/Readings to Observe**
 - Hydrogen
 - Acetylene
 - Ethylene
- Top 3 **Most Critical Factors In Choosing Instrumentation**
 - Price
 - On-site Service & Support
 - Technology Used

About the Survey Takers

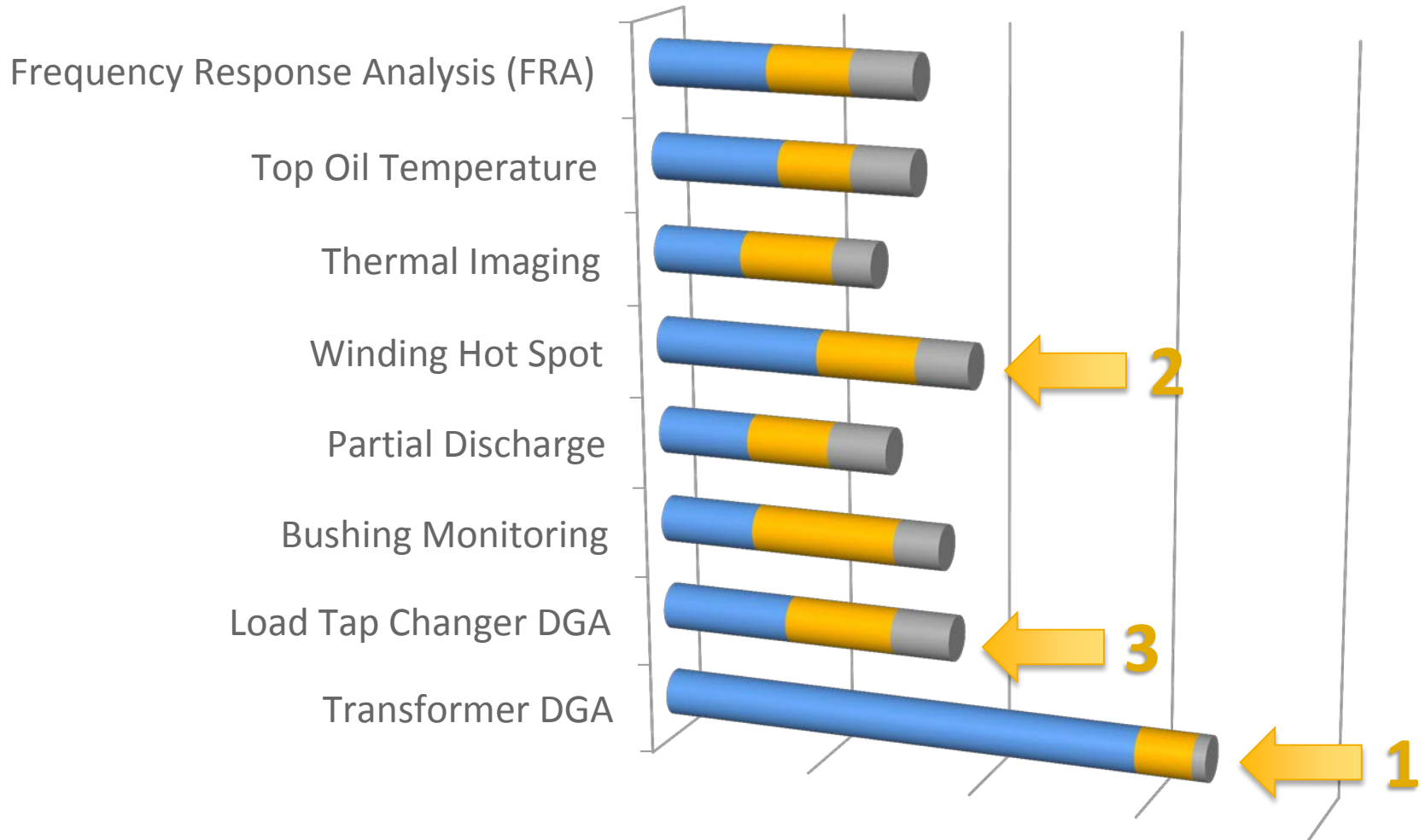
40% of survey respondents work for Transformer Manufacturers

48% of survey respondents work for Electric Utilities

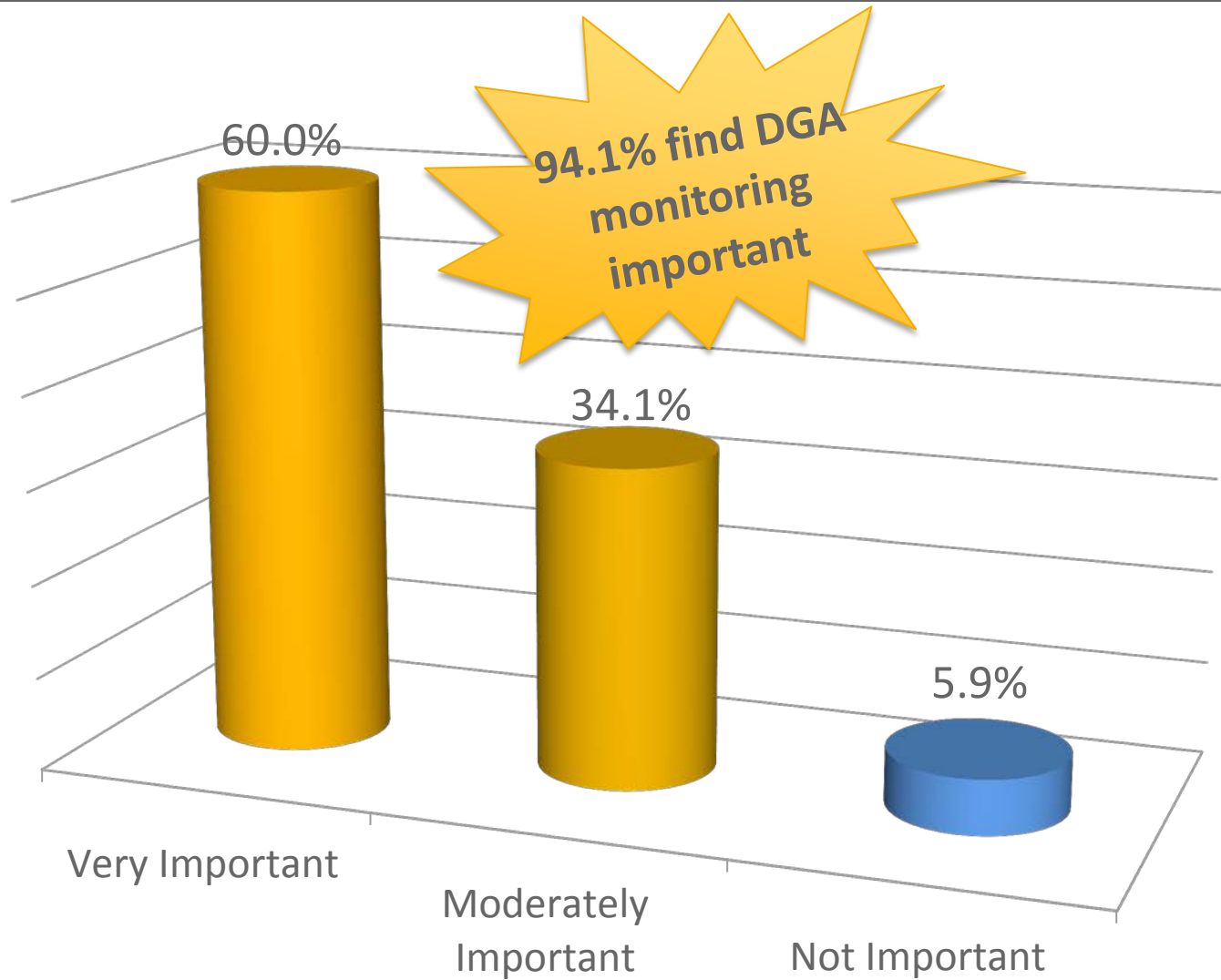
Size of Employer



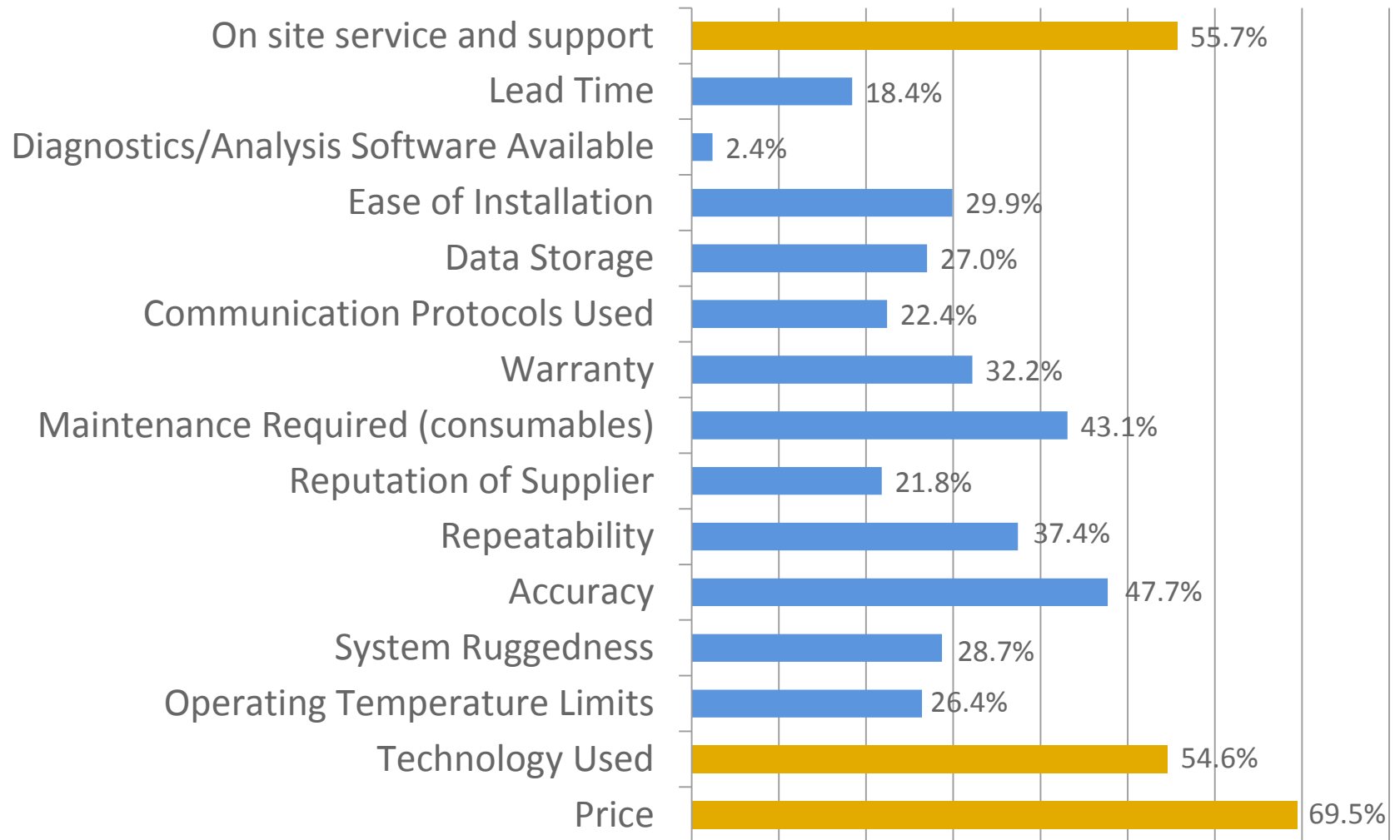
Most Important Items to Monitor on a Transformer/LTC (Top 3)



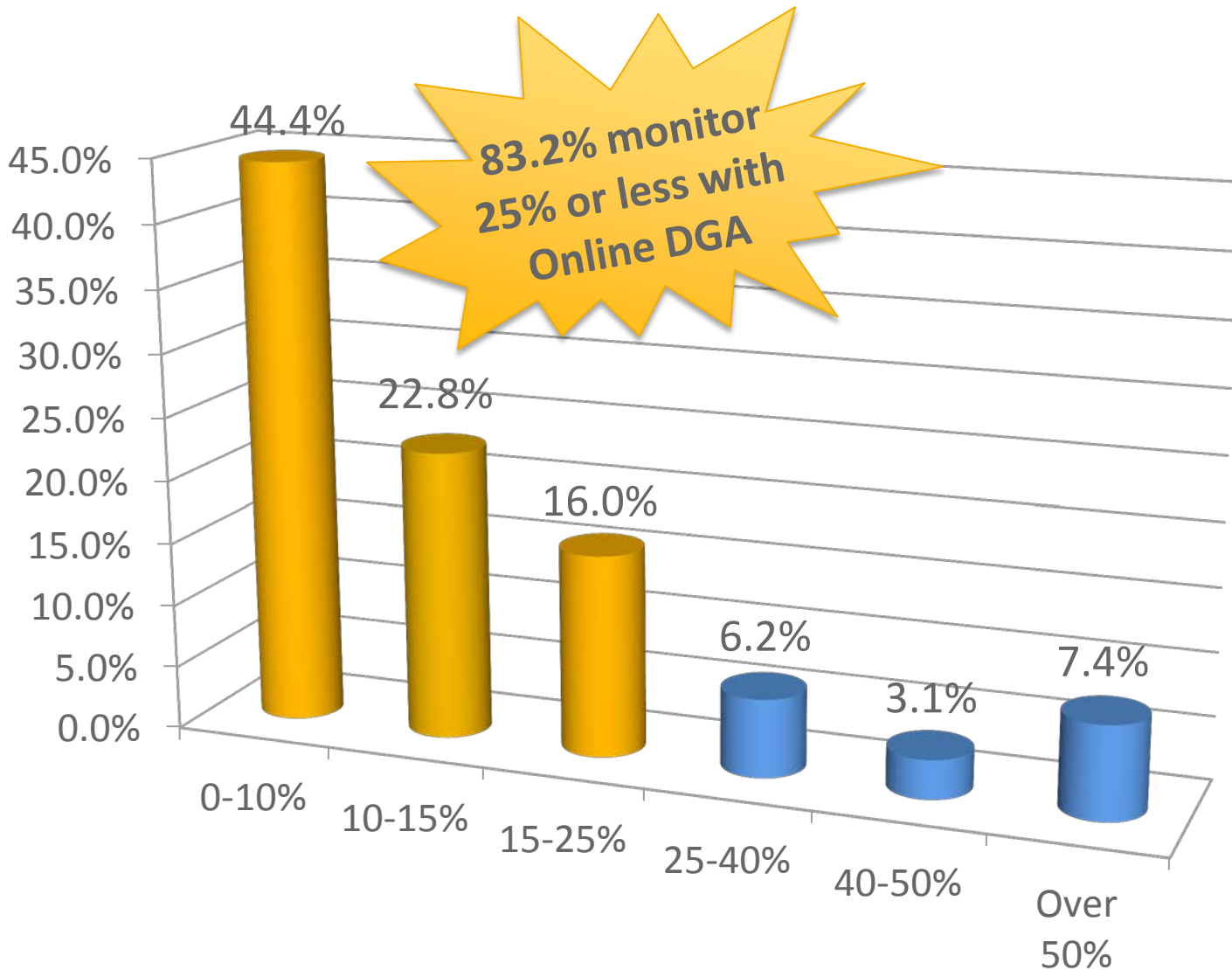
Importance of Online DGA for condition monitoring



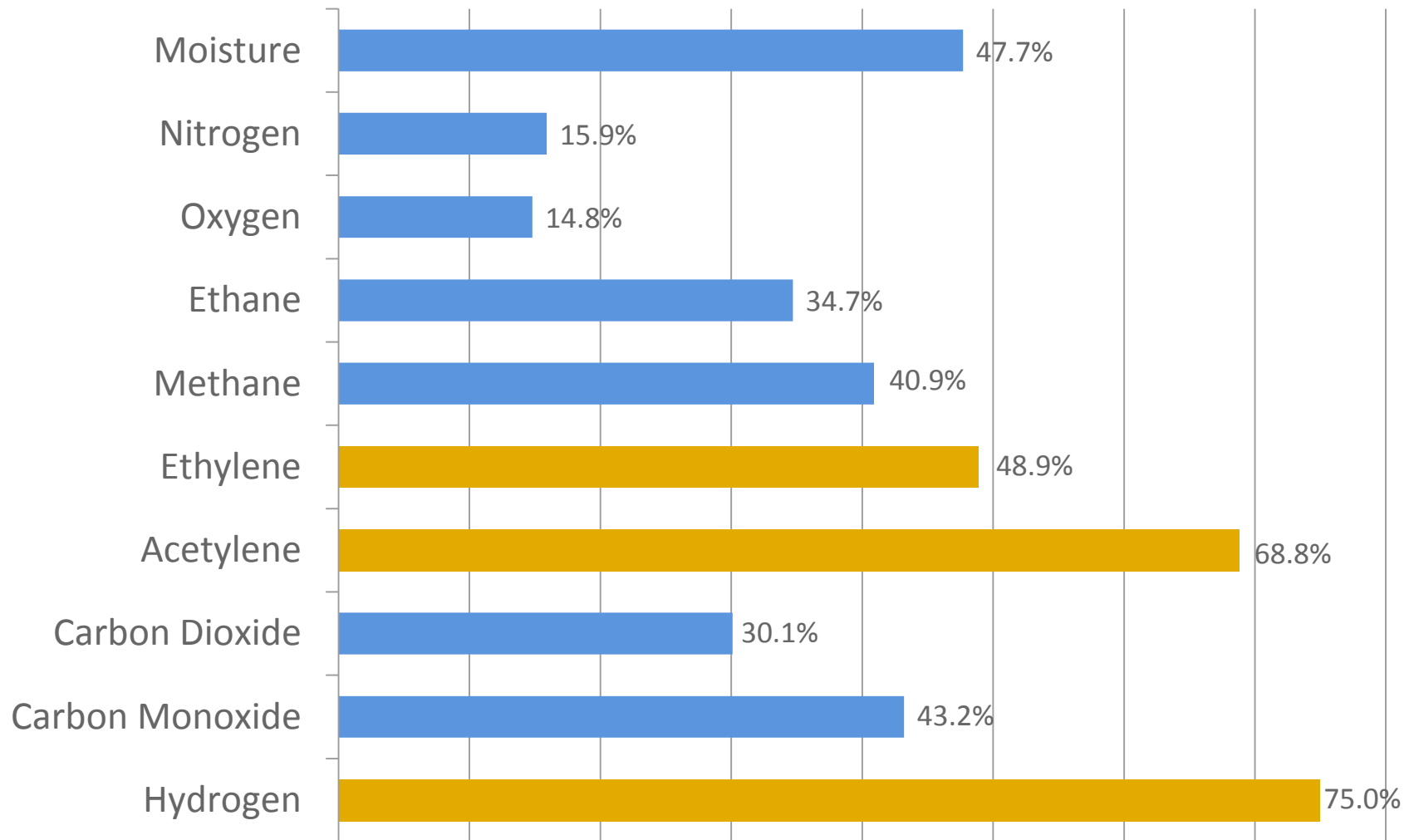
Critical Factors In The Choice of Online DGA Instrumentation



Percent of Transformers with Online DGA Monitoring

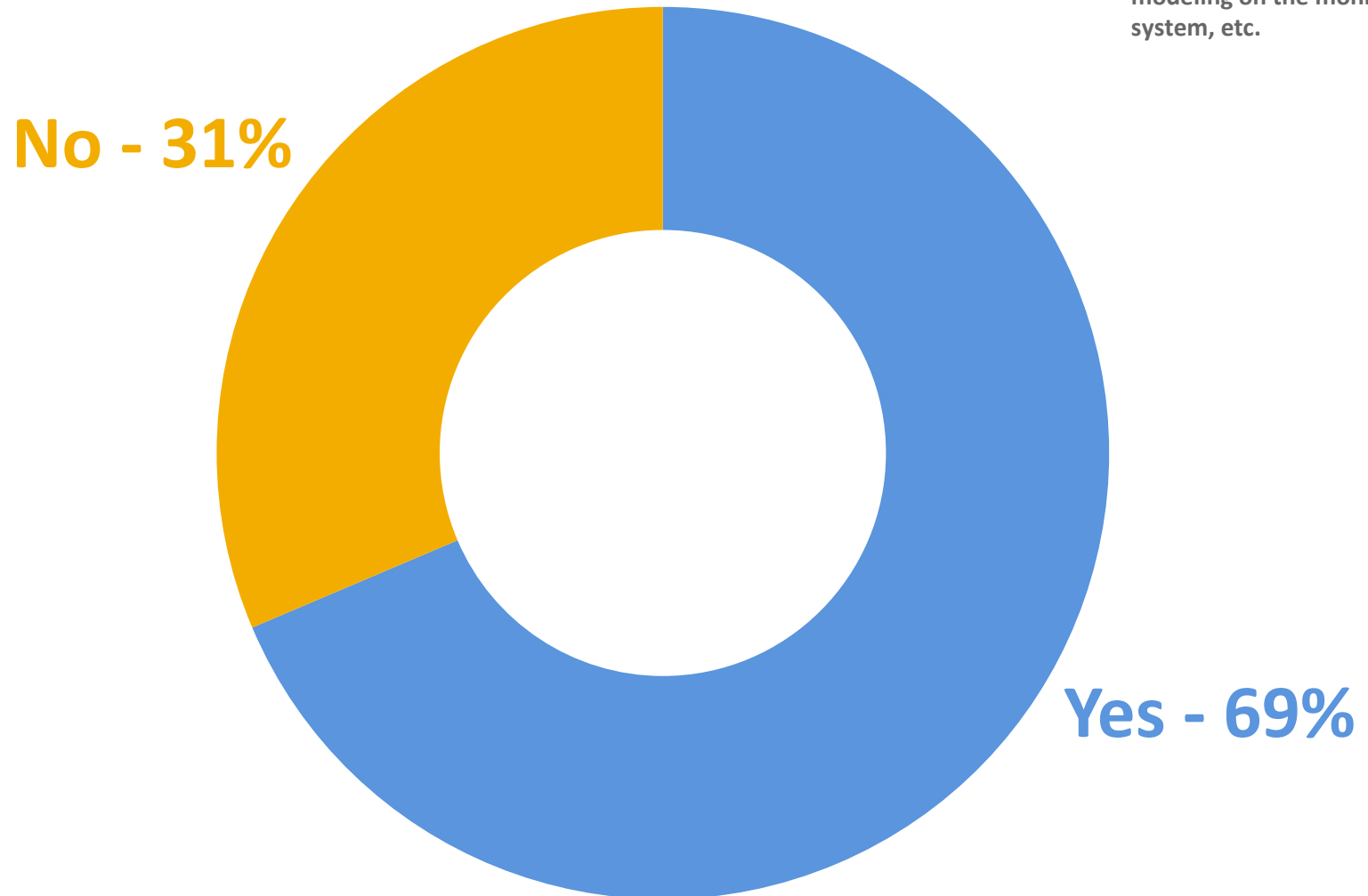


Critical Gases/Readings to Monitor

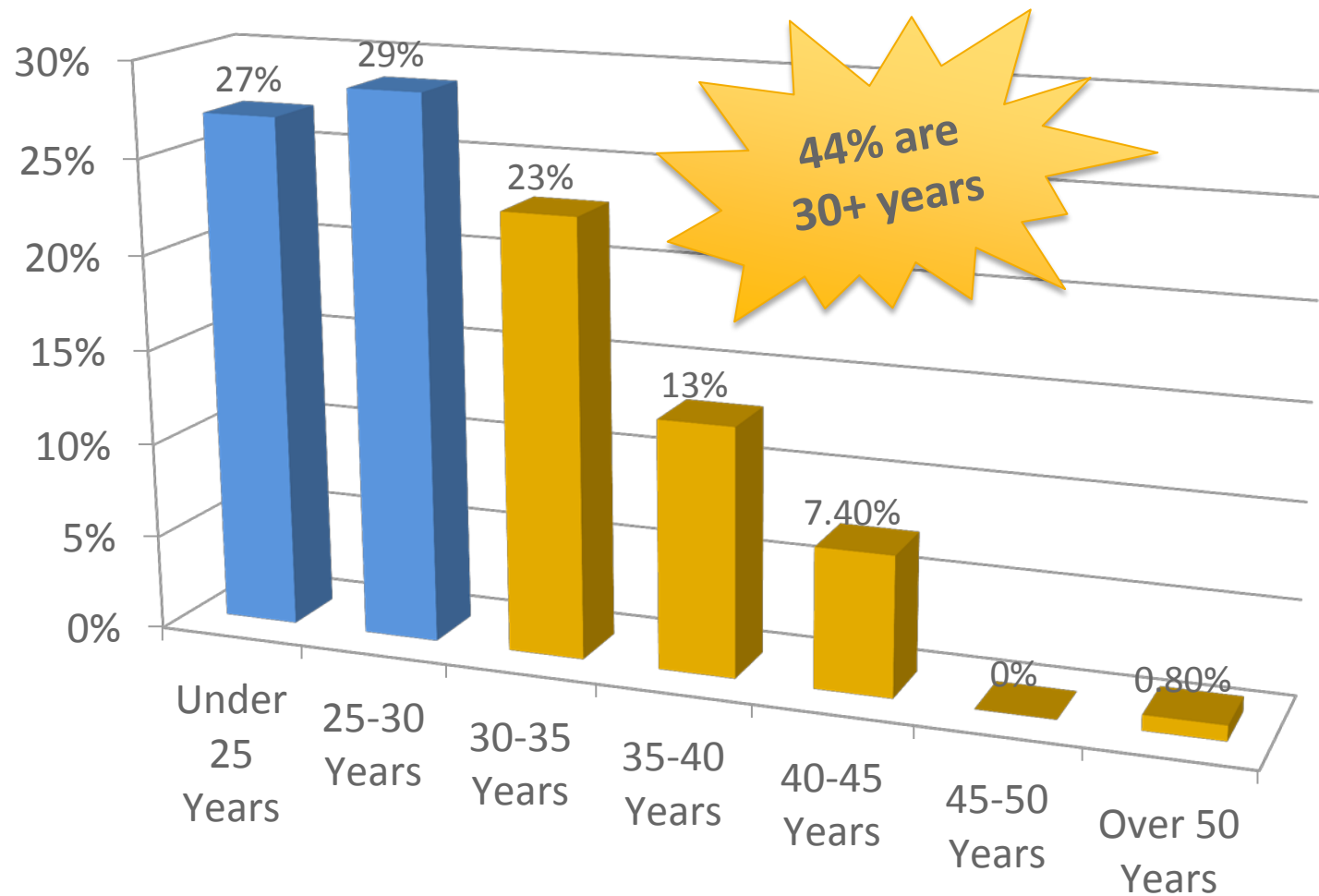


Moving Towards a Combined Monitoring System*

*With several sensor and measurement inputs, modeling on the monitoring system, etc.



Average Age of Transformers on Transmission System



Want to view the entire survey results?

Visit the
SmartDGA Download Page
on our website:

http://info.lumasenseinc.com/smartdga_download.html

About LumaSense Technologies™

For over 50 years, LumaSense Technologies, Inc. (LumaSense) has helped our customers be more efficient by helping solve their most difficult to measure processes.

Our unrivaled passion for excellence is why we have become one of the world's most trusted sensing solution provider. Beyond providing expert application understanding and the highest quality products, our customers turn to us, knowing our commitment to their success comes first.

With offices in Asia, Europe and the Americas, LumaSense is ideally positioned to serve the needs of the energy, industrial, and advanced technology markets worldwide.

For more information about LumaSense Technologies, visit our website:

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