Online transformer monitoring is an effective technique, which, by means of preventive detection of eventual failures, contributes to ensure continuity and reliability of the operation of such equipment, reducing costs and economic losses associated with them. Online monitoring consists of a set of processes which correspond to field measurement of operation and magnitude parameters, typical of a specific transformer. Its applications include identifying trends and alarm signaling to prevent failure and consequently extend the service life.

Customer needs
- Increase the capacity of their installation by 15% to 18%.
- Use of existing 38 year old transformers and respectively 16 year old transformers for the Boosters.
- Proposed solution should satisfy a payback for the investment over 3 years of operation or until final plant shut down.

ABB response
- Feasibility study for the power increase.
- Condition/Life and risk assessments including action plan.
- Revision/Repair at site.
- Supply, installation and commissioning of an online monitoring system with remote control capability.
- Quarterly report to customer (interpretation of the monitoring data with action plan).

Customer benefits
- Only one contact to a full transformer service provider.
- Customer increased their production of aluminum with their old transformers without loss of production until April 2006 1 year after the plan of final shut down
For more information please contact:

**ABB Ltd.**
Transformer Service
Affolternstrasse 44
P.O. Box 8131
8050 Zurich, Switzerland

[www.abb.com/transformers](http://www.abb.com/transformers)

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