



StatSoft completes network-wide quality control project for Vattenfall Poland with *STATISTICA Data Miner*

KEY POINTS

Business

Vattenfall Distribution Poland S.A.

Overview

- Handles energy origination in Central and Eastern Europe
- Conducts electricity trading on stock exchanges and OTC markets
- Seeking to analyze accuracy of its low-voltage power network's data quality parameters

Challenges

The sheer volume of data to be analyzed from multiple network sites exceeded available tools, so Vattenfall was interested in alternative methods for selecting a representative data set via its centralized SONET system without sacrificing accuracy

StatSoft Solution

STATISTICA Data Miner

Results

- Successful integration with SONET
- Reduced project time and cost

"Thanks to [STATISTICA's algorithm method], it became possible to reduce considerably the costs and time of this project...without the need to check all our network appliances on location."

— **Miroslaw Janik**

*Deputy Director, Network Maintenance
Vattenfall Distribution Poland S.A.*

BACKGROUND

Vattenfall's Polish office deals with the business of energy origination in Central and Eastern Europe while developing its electricity trading activities on the stock exchanges and OTC markets in Poland, the Czech Republic, Hungary, and Slovakia.

<http://www.vattenfall.pl/pl/index.htm>

MISSION

Vattenfall Poland's parent company is Vattenfall A.B., whose vision is to create a strong and diversified European energy portfolio with sustainable, increased profits and significant growth options, and to be among the leaders in developing environmentally sustainable energy production.

CHALLENGE

In an effort to confirm the quality and accuracy of data collected via a centralized SONET computer system from across its vast energy network, Vattenfall Distribution Poland had concluded manual collection of 100% of the necessary data from all sites would be prohibitively costly and time-consuming.

HOW STATISTICA HELPED

During 2009-2011, Vattenfall Distribution Poland commissioned StatSoft Polska Sp. z o.o. to perform statistical and empirical analysis with the purpose of assessing selected data concerning the low voltage power network. Utilizing *STATISTICA Data Miner*, StatSoft's consultants selected representative elements of the power network from Vattenfall's centralized SONET computer system, which were subsequently checked on location. On the basis of the sample data, they calculated the parameters in which the Vattenfall team was interested, i.e., the indices of data quality.

More importantly to Vattenfall, *STATISTICA's* method of selecting a relatively small representative sample from SONET made it possible to generalize the results in respect to the entire group of examined elements.

RESULTS

Thanks to [*STATISTICA's* algorithm method], it became possible to reduce considerably the costs and time of this project," says Miroslaw Janik, Vattenfall Distribution Poland's Deputy Director of Network Maintenance. "We obtained satisfactory, accurate results without the need to check all our network appliances on location."

Janik continues: "All work was performed with due diligence and with observance of the highest standards, so our requirements and expectations were met. We recommend StatSoft as an experienced analytical solutions company."