



Advanced and Predictive Grid Analytics for Utility Companies

Optimize assets and improve distribution efficiency with comprehensive grid analytics

The building out of the smart grid offers energy companies the potential to innovate business models while increasing efficiency and lowering costs. But companies need fast insight into data to be able to design and implement demand response programs that intelligently distribute existing power, maximize asset performance and reduce operational costs.

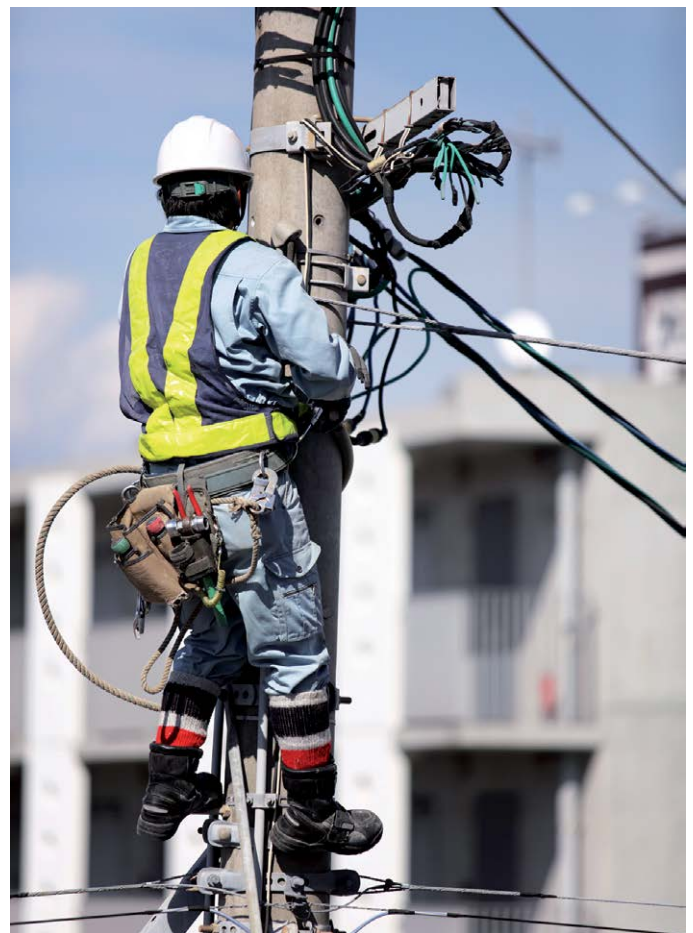
BIRT Analytics helps utilities leverage massive volumes of data – with no delays – so they can:

- Deeply analyze integrated data with an intuitive, easy-to-use solution
- Optimize transmission, distribution and operational performance
- Reduce production losses, maintain peak asset performance and increase service levels
- Anticipate outages and improve response efforts

The Challenge: Turn grid data into knowledge that helps improve operational efficiency

- **Use data to maximize asset performance.** In order to effectively plan asset maintenance and replacement needs, utilities need to be able to quickly integrate and analyze massive volumes of data on transformer health, substation equipment and T&D assets.

- **Optimize transmission and distribution.** To maximize the performance of distribution networks, utilities must accurately predict and allocate loads, efficiently manage crews, estimate distribution states, forecast usage, and respond to line loss, theft and fraud.
- **Predict and manage outages.** Utilities must be able to anticipate potential outages, improve restoration times, minimize power losses, improve power quality, immediately identify the source of outages and streamline restoration efforts.



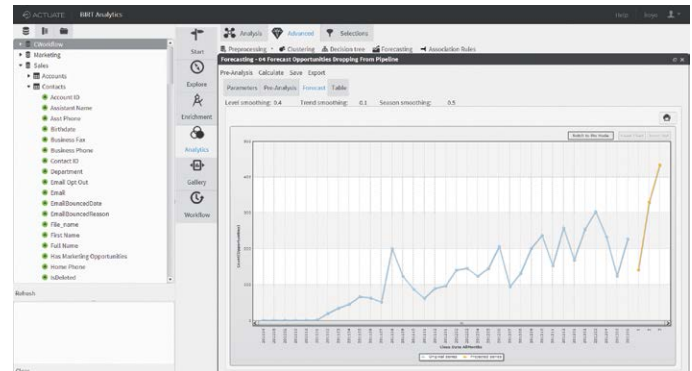
The Solution: BIRT Analytics

- **Fast integration and ease of use.** Data from weather sources, asset usage, billing systems and smart meters integrates seamlessly inside BIRT Analytics, making it easy to gain visibility of all factors affecting grid performance.
- **Analytical agility** makes it easy for non-statisticians to identify relationships among variables by simply dragging and dropping data sets on the fly, with no need for data scientist expertise.
- **Customizable alerts and notifications** can be configured to detect unanticipated load increases, over- or under-utilized transformers and other potential problems so that service delivery remains consistently high.
- **Advanced predictive analytics** enable utilities to forecast customer usage, predict equipment problems, estimate available demand response and assess the impact new grid systems will have on existing ones.

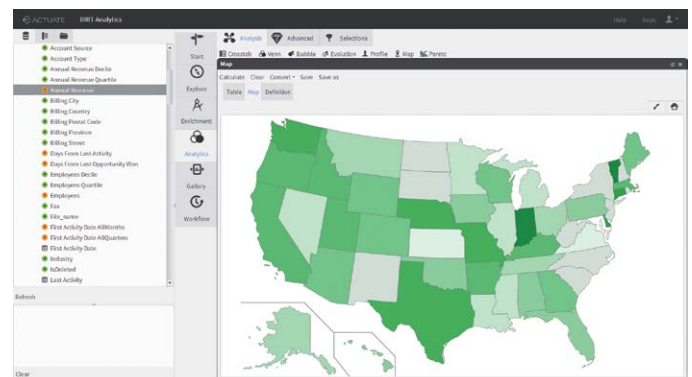
Benefits of Using BIRT Analytics

- **Improve transmission and distribution:** leverage integrated data on usage, previous outages, asset health and maintenance timetables to increase network efficiency.
- **Reduce operational costs:** use insight gained from data to lower monthly peak load charges, reduce unscheduled truck rolls, maintain asset performance, optimize voltage, identify theft, fraud and line losses during transmission, and distribution.
- **Maintain equipment at peak performance:** predict substation equipment problems, gauge transformer health and plan for maintenance and replacement needs.
- **Predict outages and respond faster:** identify key causal factors that cause outages and use internal and external data to design proactive response programs.

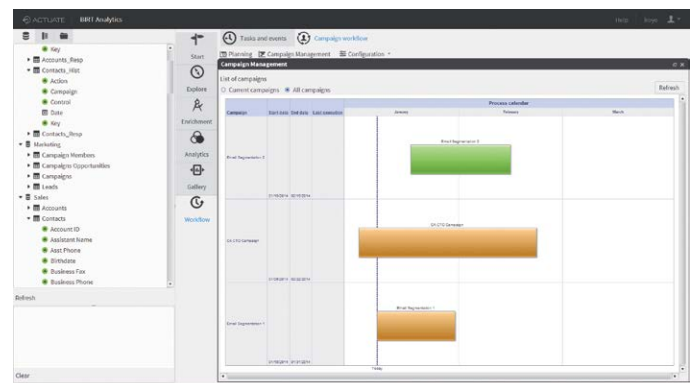
BIRT Analytics combines speed, ease-of-use and powerful predictive tools in a single, affordable end-to-end solution. It integrates, cleans and analyzes multi-source data quickly and easily so your organization improves results while saving time and money.



Forecasting: Anticipate grid demand and avoid outages, detect unanticipated load increases.



Map: easy geographical distribution of weather data, asset usage, level of fraud.



iWorkflow: customize alerts and notifications of over- or under-utilized transformers and follow up.

Find out more about BIRT Analytics and how predictive analytics will help your company stay in front of the market. Contact a BIRT Analytics expert at 1-800-914-2259 (US & Canada), send us an email or visit our contact page.