Data Analytics Solution
For the Nuclear Industry

Driving Operational Excellence

AREVA and IBM have teamed up to deliver a data analytics solution to the nuclear industry. Built from industry-leading IBM business analytics software powered by Watson IoT, the platform brings together, in one solution, a core set of powerful capabilities as well as building blocks for new energy analytics applications. It enables important operational excellence improvements, helping to:

- Increase reliability and avoid costly downtime
- Reduce asset failures and unplanned outages
- Prioritize maintenance expenditures and operations

As plants look for ways to optimize maintenance and refurbishment plans, predict equipment failure, develop predictive maintenance and asset health and risk consequence analysis, and address 10 CFR 50.69 within the nuclear industry, our team stands ready with solutions.

In a time of change within our industry, along comes an opportunity for organizations to define the next era of nuclear energy. Accelerating advancements in technology are transforming the way all industries do business. Through its partnership with IBM, AREVA is helping the nuclear industry take advantage of these advancements and the data readily available to their organization to establish a predictive maintenance culture that is fueled by data-driven decisions. We offer the technologies, services and expertise needed to guide your team through this journey and help you Deliver the Nuclear Promise.

Optimize Your Equipment and Processes

By better understanding equipment / asset performance and preventative maintenance, organizations will be able to:

- Monitor, maintain and optimize equipment for better availability, utilization and performance
- Predict asset failure and identify poor quality parts earlier to better optimize operations and supply chain processes
- Make critical decisions faster and more accurately by combining institutional knowledge and analytics

From Reactive to Proactive

Our data analytics solution allows you to take a proactive approach in your maintenance and operations strategy by gaining an understanding of your assets' health and predictive maintenance needs to help prevent asset failures, detect quality issues sooner and improve operational processes.

Our data analytics solution can integrate disparate data sources and develop actionable analytic insights across and within business domains. Using advanced analytics, energy and utility companies can turn business challenges into opportunities, driving rapid time to value and real business outcomes.

AREVA will work with you to take your plant operations from reactive to proactive by generating insights and recommended next steps that enable organizations to strategically plan maintenance, avoid unnecessary work and help prevent abrupt and costly failures. The solution gives utilities:

- An extensible and scalable foundation that provides a single view of analytics across the enterprise
- Built-in analytic applications for situational awareness, predictive maintenance and asset health and risk consequence analysis
- An open, standards-based platform that enables integration of customized analytics applications

AREVA NP

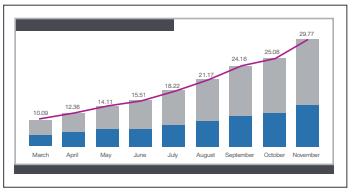
IBM Silver Business Partner

AREVA

Discovering Insights with Analytics

Analytics = Operationalizing Data

Business Intelligence (BI)

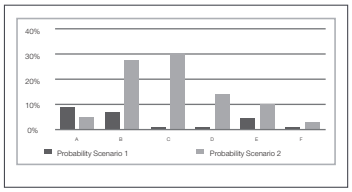


What happened?

When, where and why?

How much?

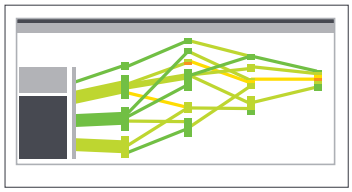
Advanced, Predictive



What could / will happen?

What will be the impact?

Prescriptive



What are potential scenarios?

What is the best course of action?

How can we pre-empt and mitigate the crisis?

Why AREVA and IBM?

AREVA is a premier nuclear engineering organization with years of industry expertise and knowledge. As an OEM, AREVA works with various equipment suppliers delivering a holistic view of the plant and operations. It also means that we act in your best interest and are looking for a true partnership. In coming together with IBM's market-leading analytics and cognitive portfolio, our two organizations have developed a full set of skills, services and repeatable solutions to accelerate your speed-to-value while leveraging limited engineering and information technology resources.

ACT NOW and who to contact?

AREVA approaches The Nuclear Promise in a consultative manner where we'd like to sit down with you in a half-day workshop to develop a strategy that's right for your organization. Companies are facing this huge initiative with an extremely limited time frame to address it. To accelerate your speed-to-value, AREVA leverages pre-built analytics models, deploys industry subject matter experts, nuclear engineers, data scientists and consultants to take you through the journey.

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3/17 **ANP:U-648-V1-17-ENG**