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Boomi Powers JERA's Post-Merger Digital Transformation, Sparking Greater Innovation, Automation, and Data-Driven Insights

Japanese energy giant overhauls complex legacy infrastructure, migrates core business systems to the cloud, and connects thousands of critical IoT devices and sensors

Transformation

BUSINESS GOALS

Formed following the merger of TEPCO Fuel & Power and Chubu Electric Power in 2015, JERA is Japan's largest power company, with 76 gigawatts capacity.

After its establishment, JERA developed a digital transformation strategy focused on unlocking data silos to create unprecedented visibility across its multinational operation. The company wanted to transition to a cloud-only infrastructure model, integrating legacy and modern systems to create a central data repository to improve business intelligence and Internet of Things (IoT) capabilities.

JERA's operation relies on thousands of connected devices which perform a multitude of tasks across its power generation plants. It sought to integrate these devices into the wider IT environment, automating data management to gain granular insights into its assets and develop new platforms to deliver greater customer value.

TECHNOLOGY CHALLENGES

While the merger aimed to provide Japan with a stable and economic power supply, JERA inherited multiple on-premises applications and disparate systems, resulting in a complex and unwieldy legacy infrastructure that did not support the company's business goals.

As a further complication, JERA has one of the world's largest value chains – with operations spanning 10 countries – and stakeholders across this vast ecosystem rely on accurate and actionable data to avoid disrupting operations and customer services.

Despite having two disparate legacy architectures – each with its own siloed and complex business-critical systems – and operating at a massive scale across multiple countries, JERA was determined to unify its IT environment, transition to a cloud-only model, and create a central repository to drive greater business insights.

> " Boomi provides the easiest way to bring all of our different systems together, **allowing us to automate data exchanges and integration to deliver a unified view of our power plants and associated workflows.**

Dr. Sami Ben Jamaa, Global Chief Information and Digital Officer, JERA

HOW BOOMI HELPED

Using Boomi's integration platform as a service (iPaaS), JERA replaced a series of highly complex point-to-point integrations that had been causing unnecessary strain on the company's IT team.

Boomi's low-code design not only dramatically increased time-to-value by removing time-consuming manual integration tasks, it also allowed JERA to automate and centralize data exchanges between previously disparate legacy systems, playing a pivotal role in expediting the migration of critical workloads to the cloud.

With the cloud-native Boomi Platform connecting JERA's core business systems – including its SAP, fuel management, and Energy Trade Risk Management (ETRM) platforms – JERA was able to migrate all of these systems to Microsoft Azure data centers in only five months, fulfilling its cloud-first strategy and paving the way for adoption of additional modern technologies.

RESULTS & BUSINESS OUTCOMES

With disparate legacy systems now integrated and data exchanges between them automated with Boomi, JERA has centralized data from all its digital assets and gained unprecedented visibility across its multinational operations.

Additional benefits of JERA's Boomi implementation include:

- The ability to launch new integrations significantly faster than would be possible using traditional methods
- Integration of thousands of IoT devices and sensors used at its power plants
- Automated fault prediction, with a foundation to develop predictive maintenance
- Streamlined mandatory reporting to Japanese regulators and the Japanese Energy Power Exchange (JPEX)

The data model facilitated by Boomi will also power a new JERA commercial platform that will provide personalized energy usage options (choosing between renewable and traditional energy sources) and additional energy services to consumers and businesses.

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Boomi represents a key part of our cloud architecture – by unifying our IT environment, we have data communication across our entire operation despite the scale of our business. **We cannot expand, nor have modern platforms without this foundation.**

Dr. Sami Ben Jamaa,
Global Chief Information and Digital Officer, JERA

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CUSTOMER SPOTLIGHT

Market:	Utilities
Headquarters:	Tokyo, Japan
Founded:	2015
Employees:	4,500
Key Integrations:	SAP ECC ERP, Energy Trade and Risk Management (ETRM) system

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