

The background of the entire slide is a photograph of an industrial refinery or chemical plant. It features numerous tall distillation columns, complex piping systems, and storage tanks. The scene is illuminated by industrial lights, creating a mix of bright spots and deep shadows. A semi-transparent teal filter is applied over the entire image to unify the color palette and enhance the industrial aesthetic.

CASE STUDY

ENERGY PROVIDER SCALES POWER GRID ALERT SYSTEM TO SUPPORT GROWTH DEMANDS

INTRODUCTION

Serving as a major retailer and generator of electricity in the growing Texas market, this leading energy company has played an integral role in the evolution and progress of the state and is a large purchaser of renewable power, including wind and solar-generated electricity.

As part of a larger conglomerate, the company sells retail electricity and value-added services to approximately 1.7 million residential and business customers in Texas. The energy provider generates and sells electricity and related products from a diverse fleet of generation facilities including nuclear, coal, and natural gas.

The company first began working with Janeiro Digital in 2016 to develop an internal custom software platform that could scale quickly and easily to its needs, while minimizing costly, third-party licensing fees. Toward the end of 2016, they reached out to Janeiro Digital again as it sought a partner to design, build, and implement alarms and ticketing functionality to support the monitoring and diagnostics center on its existing software platform.



CHALLENGE

After planning and scoping an updated software platform that included alarms and ticketing functionality, Janeiro Digital received word that the company would be merging with a larger provider. In conjunction with the usual time and resource-related stresses brought on by a merger, this new development significantly increased the scope of the monitoring and diagnostics needs of the newly-expanded plants and personnel. The merger also meant that implementing an updated system—

particularly one that could boost operational productivity and reduce third-party licensing costs—was suddenly a top priority that would require an aggressive development schedule to meet the urgent project deadline.

In addition to complying with increased project scope and an expedited deadline, Janeiro Digital and the energy provider needed to seamlessly sunset existing commercial tools that could no longer support the technical demands of the larger, merged organization. For instance, Janeiro Digital needed to create an updated end-user interface and suite of applications for the monitoring and diagnostics center that could be used to create efficiency in the company's overall operations and allow it to successfully absorb the fleet of the larger organization.



SOLUTION

By leveraging Janeiro Digital's **XFORM** technology, a platform with a suite of components that establishes the foundation of a scalable enterprise application architecture, the energy provider will be able to implement an updated, user-friendly software platform that can provide ample support for its extensive fleet network. Equally important, Janeiro Digital's XFORM technology will enable the company to complete this large-scale initiative within its tight timeline.

Using XFORM-based microservices architecture, Janeiro Digital and the energy provider will be able to compile disparate activities that had been scattered across multiple systems and implement more efficient, seamless user experiences. Janeiro Digital recently completed building the ticketing module for the company's newly merged software platform. Thanks to XFORM, the company saved months in foundational build time and established a solid infrastructure upon which the remainder of the system will be built.



BENEFITS

Janeiro Digital's XFORM has already shortened the delivery timelines of multiple new development initiatives by several months. With the merger, for example, it was paramount that a new software platform (including all new efficiency requirements and capabilities) go live as soon as possible. XFORM allowed Janeiro Digital and the merged company to establish a minimal viable product of the new platform in just a few months, while guaranteeing a quick turn-around process for any additional future modules.

The new and improved custom software platform built with XFORM also stands to reduce third-party license costs, especially compared to other existing commercial solutions used by the energy provider. While the ticketing functionality hasn't gone live for broad usage across the platform yet, the full platform (including both ticketing and alarms functionality) is expected to provide a significant increase in system efficiency.

Lastly, Janeiro Digital's XFORM has laid invaluable groundwork for current and future development staff by drastically reducing technical debt that could delay or derail future projects. This benefit is already paying off as the early stages of the alarms functionality development gets underway and follow-on modules within the software platform are added to better support the growing monitoring and diagnostics center. Janeiro Digital looks forward to continued collaboration on additional project designs, builds, and implementations using XFORM to support additional areas of the growing conglomerate's business.

A TRUSTED INNOVATION PARTNER

Janeiro Digital has been a trusted partner for the energy provider for nearly two years, and they are already benefiting directly from its [RADD methodology](#) and [XFORM](#) platform. The team saw first-hand how Janeiro's approach helped all stakeholders better understand the technology needs of a rapidly scaling business (buy vs. build), and the power of their XFORM technology to vastly reduce development time and cost.

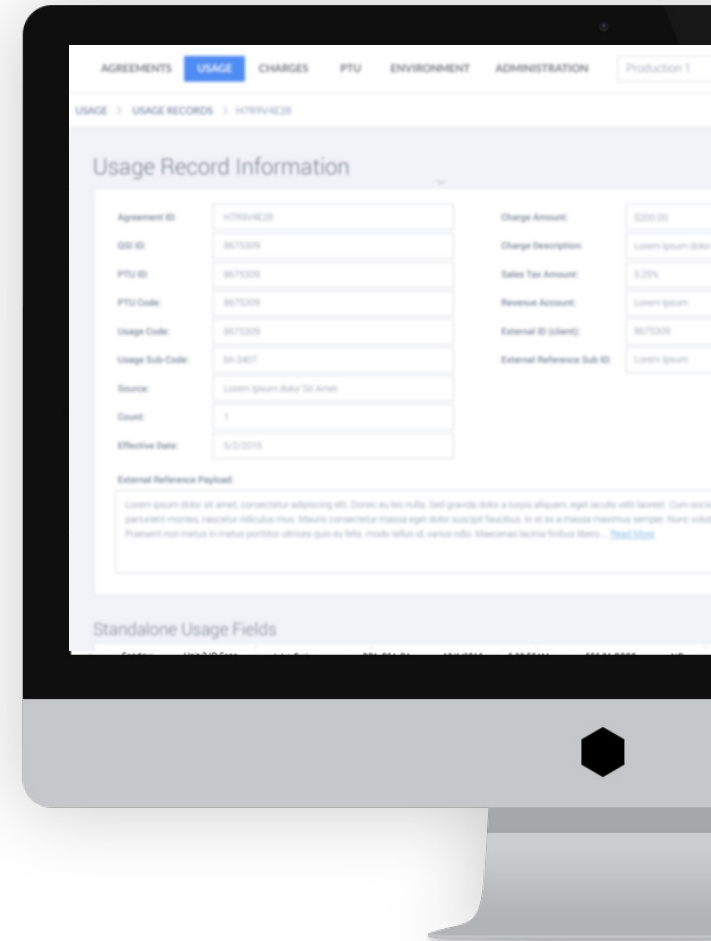
ABOUT THE ENERGY PROVIDER

The energy provider is a premier Texas-based energy company focused on the competitive energy and power generation markets through operation as the largest retailer and generator of electricity in the growing Texas market. The company consists of an integrated portfolio of competitive businesses that sell retail electricity and value-added services to approximately 1.7 million residential and business customers in Texas. Together, they generate and sell electricity and related products from a diverse fleet of generation facilities including nuclear, coal, and natural gas, and are a large purchaser of renewable power including wind and solar-generated electricity. The company is currently developing one of the largest solar facilities in Texas by capacity.

ABOUT JANEIRO DIGITAL

Janeiro Digital is a digital business consulting services company committed to leveraging digital expertise to benefit their clients. Utilizing technology to enable and address key digital business objectives, Janeiro Digital doesn't just fix problems—they provide sustainable solutions that optimize their client's performance to better serve their customers.

Learn more at www.janeirodigital.com.





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