

Two US Power Plants Turn to GE's Power Services Business to Upgrade Steam Turbines, Boosting Performance and Revenue

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- *GE's Enhanced Steam Path (ESP) Upgrade for RISE will Potentially Increase the Average Electrical Revenue by More than \$4 Million per Year over the Next Five Years*
- *RISE Project Represents GE's First-Ever ESP Upgrade*
- *Solution for Elk Hills Power's Facility in California to Add Power and Increase Efficiency*
- *Payback Period Estimated at between 2 to 3 Years for Both Projects*

LAS VEGAS—December 9, 2015—GE's Power Services business (NYSE: GE) today announced it has secured two Enhanced Steam Path (ESP) upgrades for power plants in Rhode Island and California.

GE will perform its first-ever ESP upgrade on the GE D-11 Steam Turbine at Entergy Rhode Island State Energy, L.P.'s plant in Johnson, Rhode Island, potentially increasing the site's average electrical revenue by more than \$4 million per year over the next five years. In March 2016, GE also will perform an upgrade on the GE D-11 Steam Turbine at the Elk Hills facility in Tupman, California, adding approximately 3 megawatts (MW) to the plant and increasing efficiency by 1 percent. The payback period for each site is estimated at between 2 to 3 years.

"These two projects are great examples of how GE's advanced upgrades for steam turbines are cost-effective and increase efficiency," said Paul McElhinney, president and CEO of GE's Power Services business. "GE has a fleet of approximately 200 D-11 Steam Turbines located throughout the world, and our current ESP offering can be applied to 60 hertz units to help our customers improve long-term reliability, availability and performance in the competitive markets that exist globally."

With GE's recent acquisition of Alstom's Power & Grid businesses, GE's Power Services offers a comprehensive portfolio of advanced steam turbine service solutions to help utility and industrial power customers optimize the performance and value of their operations across gas, coal and nuclear configurations. GE's Power Services now can support more than 80 steam turbine OEM brands as well as heat recovery steam generator solutions for all OEM brands.

Entergy Rhode Island State Energy, L.P. (RISE)

As GE's first-ever ESP installation, the upgrade at RISE's 583-MW, natural gas-powered, combined-cycle plant enabled an output improvement of 26 MW over the current machine (609 MW total) and created the potential to increase the site's average electrical revenue by more than \$4 million a year over the next five years.

RISE came to GE for a solution to its ongoing steam turbine vibration issues. With a rotor replacement being one of the solutions, GE's design engineers met the challenge of providing a replacement with enhanced performance to help offset the cost to the operator.

By choosing the ESP turbine rotor, RISE not only reduced the overall risk by resetting the life of a major component, thereby increasing reliability, but it also benefitted from improved efficiency and years of increased capacity and generation revenue due to the additional output capability.

The performance improvements also support grid operator ISO New England's short-term need for additional power at a pivotal time as several recent plant retirements have been announced.

"GE's Enhanced Steam Path upgrade will allow us to solve our vibration issues in a cost-effective way while improving performance and adding additional capacity and energy capability to a plant in a capacity constrained region of ISO-NE," said Andrew Rosenlieb, vice president, Entergy Rhode Island State Energy, L.P.

The project and installation is ongoing and scheduled to be completed in December 2015. The equipment was manufactured at GE's facility in Bangor, Maine. As part of the upgrade package, the unit now will be part of the fleet monitored by GE's Monitoring & Diagnostics (M&D) Center in Atlanta.

Elk Hills, LLC

The GE D-11 Steam Turbine at Elk Hills operates in a cogeneration application, delivering electricity to the California ISO grid and steam and electricity for use in oil and gas processing applications. Elk Hills Power, LLC is a subsidiary of California Resources Corporation, a publicly traded oil and natural gas exploration and production company and the largest oil and natural gas producer in California on a gross-operated basis.

[GE's M&D Center in Atlanta](#) assessed the Elk Hills steam turbine and identified certain vibration issues and recommended solutions. While Elk Hills had several options to address

these issues, a total steam path replacement was recommended as the best value for the site.

“GE’s solution focused on adding value through a significant reduction in our outage cycle, which was achieved through the ESP. Unit reliability and availability are critical to this project as well as the additional megawatts and increased efficiency,” said Bob Bond, team leader at the Elk Hills power plant.

GE anticipates that the project will take place in the spring of 2016, with the rotor being delivered in December 2015 from GE’s Bangor manufacturing facility. GE and Elk Hills Power, LLC have a relationship that spans approximately 15 years.

About GE

GE (NYSE: GE) is the world’s Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry. www.ge.com

About GE Power

GE Power is a world leader in power generation with deep domain expertise to help customers deliver electricity from a wide spectrum of fuel sources. We are transforming the electricity industry with the digital power plant, the world’s largest and most efficient gas turbine, full balance of plant, upgrade and service solutions as well as our data-leveraging software. Our innovative technologies and digital offerings help make power more affordable, reliable, accessible and sustainable.

For more information, visit the company's website at www.gepower.com.

About GE’s Power Services Business

GE’s Power Services business, headquartered in Baden, Switzerland, delivers world-class solutions for our customers across total plant assets and their operational lifetimes. This organization supports 2,800+ customers worldwide with an installed base of 28,000+ power generation assets, which includes other OEMs, and taps into the Industrial Internet to

improve the performance of our solutions over the entire life cycle through the power of software and big data analytics.