

# Jacobs Signs THIOPAQ O&G Sulfur Recovery Technology Licensor Agreement with Paqell

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Delivering high sulfur recovery efficiency, installation and operating cost reduction, and chemical waste elimination

DALLAS--(BUSINESS WIRE)-- **Jacobs Engineering Group Inc.** (NYSE:JEC) signed a sulfur recovery technology licensor agreement with **Paqell**, a joint venture between **Shell Global Solutions** and **Paques BV**, for use of its THIOPAQ O&G (Oil and Gas) technology in refineries and gas treating facilities across the globe. This agreement positions Jacobs as the only gas treating and sulfur recovery licensing company to license THIOPAQ O&G to low capacity sulfur facility owners, providing a reduced capital expenditure (CAPEX) operational expenditure (OPEX) option, which eliminates the chemical waste produced by alternative technologies.

THIOPAQ O&G is a biological process which integrates gas purification with sulfur recovery in a single unit, resulting in high sulfur recovery levels at reduced installation and operating costs. This process involves sulfur components, such as mercaptans (R-SH) and hydrogen sulfides (H<sub>2</sub>S), being removed from a gas stream and converting them into biologically formed sulfur. Expanding Jacobs' **Comprimo® Sulfur Solutions** technology portfolio, this biological process is becoming increasingly important to the industry as it looks for ways to reduce chemical waste which pose both environmental and safety hazards.

"Refining and gas treating facility owners and operators require reliable technology that delivers low CAPEX and OPEX, provides high sulfur recovery efficiency, and minimizes environmental impact," said Jacobs Mining & Minerals and Specialty Chemicals Senior Vice President and General Manager Andrew Berryman. "THIOPAQ O&G meets all of these business objectives, making it the perfect addition to Jacobs' Comprimo Sulfur Solutions technology portfolio."

Jacobs' Comprimo Sulfur Solutions provides licensing, engineering, procurement and construction services to gas treating and sulfur recovery plants around the world, such as adding new units, increasing sulfur recovery efficiency, adding more processing capacity through gas treating enrichment or oxygen enrichment, and conducting sulfur degassing and handling.

Jacobs is one of the world's largest and most diverse providers of full-spectrum technical, professional and construction services for industrial, commercial and government organizations globally. The company employs over 54,000 people and operates in more than 25 countries around the world. For more information, visit [www.jacobs.com](http://www.jacobs.com).

Statements made in this release that are not based on historical fact are forward-looking statements. We base these forward-looking statements on management's current estimates and expectations as well as currently available competitive, financial and economic data. Forward-looking statements, however, are inherently uncertain. There are a variety of factors that could cause business results to differ materially from our forward-looking statements. For a description of some of the factors which may occur that could cause actual results to differ from our forward-looking statements please refer to our Form 10-K for the year ended September 30, 2016, and in particular the discussions contained under Items 1 - Business, 1A - Risk Factors, 3 - Legal Proceedings, and 7 - Management's Discussion and Analysis of Financial Condition and Results of Operations. We do not undertake to update any forward-looking statements made herein.

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Source: Jacobs Engineering Group Inc.

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