



Achieving 6 years of zero-failure shutdown

with Waukesha® 275GL® + engines

Background

In 2012, a natural gas provider on a small island in Southern China purchased four of INNIO Group's Waukesha® 16V275GL + engines to supply natural gas to Hong Kong. Commissioned in 2013, the engines are used for gas compression.

Solution

The high-horsepower Waukesha 275GL® + lean-burn engines combine robust construction with advanced technology, excelling in fuel flexibility, efficiency, power output, and emissions control. Designed

for performance reliability in harsh environments, they offer wide fuel tolerance and high elevation performance before derate.

In upstream and midstream gas compression applications, Waukesha 275GL + engines support gas gathering, processing, transmission, and storage. They also are suitable for oilfield power generation.

Selected for their excellent reputation in China, the engines have run an average of 50,000 hours per unit. China Diesel Support Services (CDSS) Ltd. performs daily maintenance and inspections according to the

Waukesha maintenance schedule, with technicians stationed on site 365 days a year. All engines have received ESM®2 controller upgrades for enhanced operational efficiency, reliability, and performance.

Results

The Waukesha 275GL + engines have powered natural gas compression at the Southern China site for the last six years without a single failure shutdown.



A POWERFUL FUTURE

Customer Advantages of the 275GL + Engine

- Runs on nearly any fuel, from field gas and propane to commercial quality natural gas without pre-treatment
- Operates in extreme heat and altitude conditions, with 100°F ambient capability before derate
- Meets stringent emission regulations, achieving NOx emissions of 0.3/0.5 g/bhp-hr
- Delivers up to 5,000 BHP/3,729 kWb of power
- Includes readily available factory-direct technical support

Key Technical data

Number and Type of Units	4 x Waukesha 275GL + Engines
Current Operating Hours	Average of 50,000 hours per unit
Commissioning	2013
Energy Source	Natural Gas

Customer Quote

“The user chose Waukesha engines due to their good reputation in the field of compression applications in China. Waukesha engines represent safety, reliability, and stability. And the after-sales service is good as well.”
China Diesel Support Services (CDSS)



Waukesha – an INNIO Group brand - INNIO Group's Waukesha engines are at the forefront of the energy transition, providing reliable energy solutions for distributed gas compression and power generation applications. The brand's rich and lean-burn engines, ranging from 335 hp to 5,000 hp, set an industry standard for low emissions, high reliability, and fuel flexibility.

Waukesha products are continuously upgraded to help operators stay emission-compliant without sacrificing operational excellence. These upgrades include new and remanufactured engines and parts, as well as conversion and modification kits, all of which are backed by OEM warranty and more than 115 years of engine expertise. Additionally, Waukesha digital solutions include SkidIQ, a collaborative solution with Detechtion Technologies for gas compression applications and INNIO Group's AI-powered myPlant platform for power generation applications. Both solutions provide customers with enhanced monitoring and optimization capabilities, resulting in improved performance and reduced downtime.

The Waukesha team connects locally with its customers to enable a rapid response to their service needs, providing enhanced support through a broad network of distributors and solution providers with parts, services, and digital offerings.

Waukesha engines are engineered in Waukesha, Wisconsin, U.S., and manufactured in Welland, Ontario, Canada. To learn more about the company's products and services, please visit INNIO Group's Waukesha website at [waukeshaengine.com](https://www.waukeshaengine.com) or follow Waukesha engines on [LinkedIn](#).

IWK-425014

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Waukesha
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