

## **ADNOC and GE to Develop Decarbonization Roadmap for Power Generation in ADNOC's Downstream and Industry Operations in the UAE**

- *ADNOC and GE to develop a roadmap that includes reducing carbon emissions from gas turbines which provide power for ADNOC's downstream and industry operations*
- *Roadmap to include the potential use of hydrogen, ammonia, and carbon capture solutions to reduce carbon emissions from power generation*
- *Roadmap expected to support the UAE Net Zero by 2050 Strategic Initiative*
- *Joint cooperation initiative leverages ADNOC's position as one of the world's lowest carbon oil and gas producers and a leader in the emerging global market for hydrogen-based fuels*

**Abu Dhabi, UAE - December 8 2021:** Abu Dhabi National Oil Company (ADNOC) and GE Gas Power (NYSE: GE) today announced a joint cooperation initiative to develop a decarbonization roadmap that includes reducing carbon emissions from gas turbines used to power ADNOC's downstream and industry operations, including at the world-scale Ruwais Industrial Complex, in Abu Dhabi in the United Arab Emirates (UAE).

This initiative further supports the UAE Net Zero by 2050 Strategic Initiative and strengthens ADNOC's position as one of the world's least carbon-intensive oil and gas producers. The announcement follows the recent clean power agreement between ADNOC and Emirates Water and Electricity Company (EWEC) and enhances ADNOC's pathway to decarbonization while enabling sustainable future growth.



Ahmed Omar Abdulla, Senior Vice President, Refining & Petrochemical Asset Management, ADNOC said: “ADNOC’s initiative with GE reinforces our commitment to support the UAE’s goal to achieve net zero carbon emissions by 2050 and our ongoing commitment to decarbonizing our operations. This agreement is in line with our energy transition strategy and underscores our commitment to sound environmental stewardship while meeting the needs of the world’s growing energy demands. Working together with GE to develop sustainable solutions for power generation also furthers our ambitions to progress hydrogen as a future fuel and will leverage our industry-leading capabilities in carbon capture and storage.”

Under the terms of the initiative, ADNOC and GE will explore using hydrogen and hydrogen-blended fuels for lower-carbon power generation; evaluating introducing ammonia as a fuel to power ADNOC’s GE gas turbines; integrating carbon capture solutions at ADNOC’s power generation facilities; and joint research and development (R&D) programs to develop innovative solutions to reduce carbon emissions from gas-based power generation.

Joseph Anis, President and CEO of GE Gas Power Europe, Middle East, and Africa said: “Energy-intensive industries such as oil and gas, smelters, petrochemicals, aviation, and others, will play an important role in the UAE’s energy transition. Hydrogen and hydrogen-blended fuels, ammonia, and carbon capture solutions, offer pathways to near-zero carbon emissions from gas power generation, without compromising on the reliability of electricity supplies – this is critical for industrial growth. We are honored to work with ADNOC to explore solutions to decarbonize their gas turbines and thank them for their trust in us.”

The announcement is a continuation of ADNOC and GE’s cooperation to enhance the performance and sustainability of ADNOC’s operations. ADNOC and GE recently enhanced the efficiency and performance of ADNOC Refining’s General Utilities



Plant (GUP) in Ruwais, with upgrades to installed GE gas turbines increasing power output while utilizing the same amount of fuel.

Dr. Dalya Al Muthanna, President - UAE and Global Chief of Strategy & Operations, GE International Markets said: “Through the MOU with ADNOC, we are delighted to bring our industry-leading hydrogen experience to this collaboration. There are more than a hundred GE gas turbines globally that have operated on fuels that contain hydrogen, accumulating over 8 million operating hours, and we look forward to working toward our shared energy transition vision with the UAE.”

The GUP provides electricity and water to the entire Ruwais Industrial Complex. ADNOC is also enhancing the performance and sustainability of the GUP with the development of a waste heat recovery facility. Upon completion of this facility in 2023, the innovation will increase the thermal efficiency of the site by nearly 30%.

GE has contributed to the development of the energy sector in the Gulf Cooperation Council (GCC) for over 80 years. Today, GE-built power generation technologies are installed in up to 350 sites across the region, generating up to half of the GCC’s power.

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**About ADNOC:**



ADNOC is a leading diversified energy and petrochemicals group wholly owned by the Emirate of Abu Dhabi. ADNOC's objective is to maximize the value of the Emirate's vast hydrocarbon reserves through responsible and sustainable exploration and production to support the United Arab Emirates' economic growth and diversification. To find out more, visit: [www.adnoc.ae](http://www.adnoc.ae)

### **About GE:**

GE (NYSE:GE) drives the world forward by tackling its biggest challenges. By combining world-class engineering with software and analytics, GE helps the world work more efficiently, reliably, and safely. For more than 125 years, GE has invented the future of industry, and today it leads new paradigms in additive manufacturing, materials science, and data analytics. GE people are global, diverse, and dedicated, operating with the highest integrity and passion to fulfil GE's mission and deliver for our customers. [www.ge.com](http://www.ge.com)

### **About GE Gas Power:**

GE Gas Power is a world leader in natural gas power technology, services, and solutions. Through relentless innovation and continuous partnership with our customers, we are providing more advanced, cleaner, and efficient power that people depend on today and building the energy technologies of the future. With the world's largest installed base of gas turbines and more than 670 million operating hours across GE's installed fleet, we offer advanced technology and a level of experience that's unmatched in the industry to build, operate, and maintain leading gas power plants. For more information, please visit [www.ge.com/power/gas](http://www.ge.com/power/gas) and follow GE's gas power businesses on [Twitter](#) and [LinkedIn](#).



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