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Siemens supplies first SGT-A45 mobile power generation unit

- **First new gas-fired power plant project in Afghanistan since the 1970s**
- **Electricity generation planned for summer 2019**

Siemens has received the first order for its SGT-A45 mobile unit from Bayat Power, a company of the Bayat Group. A few months from now, a complete gas-fired power plant, centered around the SGT-A45 trailer-mounted unit, will begin to provide electricity for the Jowzjan Province in northern Afghanistan. The mobile solution utilizes an aeroderivative gas turbine, which can provide capacity of up to 41 Megawatts (MW) of power at 50 Hertz (Hz). The SGT-A45 mobile unit is fully tested and pre-commissioned in the factory, and its trailer-mounted design minimizes the amount of construction work required on site. As a result, the plant can begin producing electricity in only a few months and will be capable of supplying power for approximately 200,000 homes. As the first new gas-fired power plant project in Afghanistan since the 1970s, Bayat Power Phase 1 will supply clean and reliable electricity, a first step to energy independence for the country.

“The Siemens SGT-A45 mobile unit is the most powerful and efficient mobile gas turbine in the market. Our unique offering, combined with Bayat Power’s extensive experience developing infrastructure in Afghanistan, will enable the first new gas-fired power plant in the country in over 40 years. Siemens is proud to work with Bayat Power to deliver this very important project,” says Julian Erfurth, Senior Vice President of Commercial Sales within Siemens Power and Gas.

Afghanistan currently imports the vast majority of its power demand from abroad. The Bayat Power Phase 1 project will enable the country to reduce its dependency on imports and make use of its local natural gas reserves. At the same time, local

power production is a key requirement for economic growth, social development, and improved security.

“Bayat Power Phase 1 is truly a ground-breaking project, achievable only with the innovative efficiency and capacity of the SGT-A45 mobile turbine and the collaborative vision of Siemens, Bayat Power, and the Government of the Islamic Republic of Afghanistan,” says Dr. Ehsan Bayat, Chairman and Chief Executive Officer, the Bayat Group. “This project is not only just a unique opportunity to match creative private sector investment with Siemens’ considerable technical expertise and world-class turbine technology to allow Afghanistan to take its first step towards powering the next phase of the nation’s economic growth, but also is a further example of the Bayat Group’s commitment to investing in Afghanistan’s domestic energy industry in order to help electrify new industries, create jobs and activate opportunities which will benefit our entire country,” adds Bayat.

The SGT-A45 mobile unit was designed for the growing market of rapid power generation. It features best-in-class power density, economic efficiency, and flexible deployment capabilities. The SGT-A45 mobile unit is thus an especially good choice for customers with urgent power needs or in regions with a poorly developed infrastructure. The heart of the product is based on Siemens SGT-A65 components (formerly called the Industrial Trent 60 gas turbine), which utilizes Rolls-Royce Aero Engine technology. Each SGT-A45 mobile unit is fully tested and pre-commissioned in the factory, allowing for installation on site in less than two weeks, and minimizing the amount of construction work required on site.



Siemens SGT-A45 mobile power generation unit

The picture shows an assembled Siemens SGT-A45 mobile unit located at the packaging facility in Houston, US.

This press release and a press picture is available at

www.siemens.com/press/PR2019030199PGEN

For further information on the Siemens SGT-A45 gas turbines, please see

www.siemens.com/sgt-a45

For further information on the Siemens gas turbine portfolio, please see

www.siemens.com/gasturbines

For more information on the Siemens Power and Gas Division, please see

www.siemens.com/about/power-gas

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. The company is active around the globe, focusing on the areas of electrification, automation and digitalization. One of the largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. With its publicly listed subsidiary Siemens Healthineers AG, the company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2018, which ended on September 30, 2018, Siemens generated revenue of €83.0 billion and net income of €6.1 billion. At the end of September 2018, the company had around 379,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

Bayat Power founded by Mr. Ehsan Bayat, The Bayat Group Afghanistan's most prominent diversified services company, comprising Media and Telecoms (Afghan Wireless, Ariana TV/Radio), Energy and Mining (Bayat Energy and Bayat Power), Construction, Security and Logistics Enterprises. For more than seventeen (17) years, the Group has operated profitable and transparent business subsidiaries dedicated to building critical enabling infrastructure to serve the Afghan people, receiving a number of notable awards during this tenure including the Government of Afghanistan's Largest Corporate Tax Payer Award in 2017. Bayat Power, a subsidiary of Bayat Energy, Afghanistan's leading Afghan Owned Oil and Gas exploration, Development and Production Company, was established in 2015 in order to rekindle private investment in electrification, a crucial step in Afghanistan's ongoing economic development. In addition to its commercial endeavors, The Bayat Group is honored that its charitable subsidiary – The Bayat Foundation (www.bayatfoundation.org) - is Afghanistan's largest private philanthropic organization and has completed more than 500 projects in the past fourteen (14) years in the fields of maternal and early childhood health, education, and entrepreneurship / job creation. www.bayat-group.com