

Completion of world's largest combined cycle power plants in record time

In collaboration with the Egyptian Ministry of Electricity and Renewable Energy, Siemens and its consortium partners, Orascom Construction and Elsewedy Electric, announced the completion of the Egypt Megaproject in record time. The parties celebrated the combined cycle commissioning and the start of operations at the Beni Suef, Burullus and New Capital power plants. The stations will add a total of 14.4 gigawatts (GW) of power generation capacity to Egypt's national grid, enough power to supply up to 40 million people with reliable electricity.

With this milestone, Egypt, Siemens and the company's consortium partners have set a new world record for execution of modern, fast-track power projects, delivering 14.4 GW of power in only 27.5 months. A single combined cycle power plant block with a capacity of 1,200 megawatts typically takes approximately 30 months for construction. For the Egypt Megaproject Siemens in parallel built twelve of these blocks in record time and connected them to the grid. Now, each of the three 4.8 GW-power plants has become the largest gas-fired combined cycle plant ever built and operated in the world.

"The completion of the power plants is a significant milestone in the government's strategy to modernize energy infrastructure in Egypt to drive industrial growth and economic progress," said H.E. Dr. Mohamed Shaker, the Egyptian Minister of Electricity and Renewable Energy. "This is also why the plants were built in select locations across the country to serve the growing demand for electricity among households, businesses and industries. This new power infrastructure will serve as the backbone for economic prosperity in Egypt for years to come."

The power plants will not only deliver more electricity to more homes, located in Upper Egypt and Delta Nile and Greater Cairo area, but also support the country's focus on industrialization by providing reliable power supply to energy-intensive industries. For example, the Burullus plant is expected to feed power to cement, oil



and gas and petrochemical facilities as well as ongoing infrastructure development projects. The New Capital plant will energize Cairo's new administrative capital, expected to be home to five million Egyptians, as well as the strategic New Suez Canal Development Zone, while the Beni Suef plant will service homes, businesses and industries in Upper Egypt area.

"The record-breaking completion of our Megaproject in Egypt will not only transform the power landscape in Egypt, but will also serve as a blueprint for building up power infrastructure in the Middle East and all over the world," said

Joe Kaeser, President and CEO of Siemens AG. "This Megaproject is also setting the benchmark for trustful and reliable cooperation with our customer and our partners. The leadership of President al Sisi and his team, in this project, has been remarkable. We look forward to applying this unique performance model also to other countries in their efforts towards reliable, affordable and sustainable power systems."

Each of the three power plants are powered by eight SGT5-8000 H-class gas turbines, 4 steam turbines, 12 generators, 8 Siemens heat recovery steam generators, 12 transformers as well as a 500-kilovolt gas-insulated switchgear. To improve the resilience of Egypt's power grid, Siemens has successfully energized six substations that will transmit electricity generated by the new power plants. The company has also provided training to 600 Egyptian engineers and technicians, who will be responsible for operating and maintaining the plants, helping to expand skills and knowledge of the local workforce.

DMT expands into the Middle East

With the establishment of DMT Middle East W.L.L. on 10 June 2018, DMT expands into the Middle East. The aim is to tap additional market potential in the Gulf region.

"With the establishment of the company, we want to meet the constantly increasing demand for our services from the region," explains DMT Managing Director Jens-Peter Lux. "In addition, the foundation is an important milestone in our internationalization strategy. We have been successfully active in the region from other DMT group locations for many years, but the establishment of DMT Middle East will enable us to serve our customers better and faster with immediate effect".

The new company will manage the DMT group's business activities in the region and build up its own capacities.

The focus of the new business development will initially be on major infrastructure projects, for example in the areas of metro and railway expansion, airport expansion, water supply and disposal, power and supply lines as well as projects for large private and public construction projects.

"In addition to DMT Middle East, TÜV Middle East has long been established in the region and in the service areas of certification and testing within TÜV NORD GROUP. This will support and accelerate our market access in engineering and consulting," says Jens-Peter Lux. "TÜV Middle East is also a partner in the new DMT branch, which is managed by Murat Akkus, a very experienced engineer and consultant."

This section is a compilation from various company press releases, business dailies, trade publications and Industry Websites.