Deep wells in Sudan withstand desert conditions

Deep wells installed within the past 3 years in the Wadi Al Malik desert in Nord Kordofan, Sudan, have improved the lives of more than 500,000 people by providing access to clean drinking water in a region plagued by droughts. The Nord Kordofan projects tap underground water resources in the north of the region and those of the southern area, which are mainly rainwater after treatment.

The Italian pump manufacturer Caprari, based in Milan, Italy, supplied more than 40 submersible pumps and 20 horizontal split case pumps for installation in the region.

Caprari says its water management solutions perform well and are durable, even in difficult desert conditions with wind storms and sandy, dry ground that make construction difficult. Its pumps are resistant to atmospheric weathering and corrosion caused by sand, and they offer high reliability and easy maintenance. This project represents only one of the Caprari water systems present in the Sudan area, where the company has operated since the 1970s.

Russelectric to supply Charlotte Water utility power control

Charlotte Water awarded a contract to Russelectric to supply paralleling switchgear for their water and wastewater treatment facilities in Charlotte, North Carolina, United States. The switchgear will monitor incoming utility power and in the event of a utility power failure, ensure the transfer of critical emergency backup power.

Based in Hingham, Massachusetts, Russelectric will engineer and build each of the two generator paralleling control and distribution switchgear systems to control the paralleling operation of three (two present and one future), 4,160-volt, three megawatt engine generators. Each system will be designed to provide utility paralleling operation of the engine generators with the local utility, to provide uninterrupted transfer of power between the onsite engine generators and the incoming utility service. The Russelectric-engineered control system will use redundant PLC controls and include full manual capabilities that would allow for operation of the system in the unlikely event of a failure of the redundant PLC based controls. Delivery for the initial system is scheduled for late 2018, with the second scheduled for early 2019.

Global water expert contributes to Britannica Encyclopedia

Internationally acclaimed water expert Mr. Archis Ambulkar's author biography and contributions toward the topics of water purification and wastewater treatment have entered the renowned *Britannica Encyclopedia*. A prestigious and legendary publication, *Britannica* has a rich history and serves as an extensive database for readers across the globe.

Ambulkar obtained a master's degree in environmental engineering from Bucknell University, Pennsylvania, US, and has dedicated his professional work to the water and wastewater areas since then. He has developed a wide range of expertise and contributed to projects involving leading-edge technologies. His recent contribution in the Oxford University's *Research Encyclopedia* on nutrients pollution exemplifies his thorough subject knowledge. Ambulkar has served on editorial boards of prominent journals and technical publications from the US, Canada, and United Kingdom.

Ambulkar is also the author of the book *Guidance for Professional Development in Drinking Water and Wastewater Industry*, published by International Water Association (IWA), United Kingdom. His other contributions as author include research papers, case studies, industry standards, manuals, and expert columns.