

Beat: Business

YORK's Innovative Solution Saves Up to 70 Million Liters of Fresh Water

BUSINESS NEWS

Jeddah - Saudi Arabia, 09.08.2018, 17:04 Time

USPA NEWS - Al Salem Johnson Controls (YORK) has succeeded in devising new technologies that have contributed to the energy consumption of "Al-Shallal Theme Park" in Jeddah. These technologies enabled the Theme Park to achieve an annual power saving of up to 1.5 million riyals, by using "water steam" instead of the traditional production of electricity to operate its cooling system.

Al Salem Johnson Controls is a multi-industry company and a pioneer in providing integrated solutions that include HVAC, fire safety and security systems, building management and control systems for the residential, commercial and industrial sectors.

Commenting on the new technology for energy efficiency, Al Salem Johnson Controls Chief Executive Officer Dr. Mohanad AlShaikh stated that innovation is the cornerstone of the company's business and they always embrace an environment in which new ideas, technologies and processes are explored to create diverse solutions and services.

Located on the banks of Jeddah's Corniche over an area of "60,000 square meters and visited annually by one million visitors, Al-Shallal Theme Park, a subsidiary of Fakieh Hospitality and Leisure Group - Tarfeeh Fakieh, aims to become the best Amusement Park in Saudi Arabia.

"Since the beginning of the design phase of the project, there had been extensive research to select a world-class company that offers cooling, ventilation and air conditioning solutions by taking advantage of seawater to reduce energy consumption. Al Salem Johnson Controls (YORK), having repeatedly proven its experience in designing and engineering sustainable solutions and services, helped us improve energy efficiency, reduce carbon footprint, and achieve environmental goals. Explained Jamil Attar, Executive Director of Fakieh Hospitality and Leisure Group.

On the same note, Dr. AlShaikh said that Al Salem Johnson Controls (YORK) has engineered and designed solutions for the Theme Park, characterized by energy and operation efficiency to ensure that the park - which includes open and closed areas - is cooled in all climatic conditions and has great operational performance during the holiday seasons when the Theme Park witnesses huge numbers of visitors.

With innovation in mind, Al Salem Johnson Controls team took advantage of the strategic location of the Theme Park, using saltwater instead of fresh water, thus saving 50,000 gallons/day (190,000 liters/day) of fresh water, sufficient to satisfy thirst of 1000 people a day.

The cooling plant comprises of 3 YORK Absorption Chillers, each with a cooling capacity of 750 tons, along with condensers, pumps and firefighting systems.

In the same building, diesel boilers use seawater to produce steam; as the chillers are operated by steam instead of electricity, which contributes to saving the energy consumption of the AlShallal Park, equivalent to 1.5 million riyals a year.

"The seawater is used in a complete cycle; it is withdrawn and filtered to ensure that it is free of small fish and other marine organisms before entering the cooling system (either in Chiller or in the boilers). It is important to stress that Al Salem Johnson Controls (YORK) cooling system does not use any chemicals in the water, thus does not affect the life and the marine environment after the water is being pumped back to the sea again after completing the cooling cycle," said the CEO of Al Salem Johnson Controls.

As for the Fakieh Aquarium project, which is part of Fakieh Hospitality and Leisure Group - Tarfeeh Fakieh, Al Salem Johnson Controls (YORK) supplied 3 Chiller (each with a cooling capacity of 250 tons) and 8 Air Handling Units, and succeeded in cooling and controlling the temperature of the fish tanks and the dolphin lake, in proportion to the temperature of the aquatic environment, so as not to adversely affect the lives of fish and other marine creatures.

Article online:

<https://www.uspa24.com/bericht-13940/yorks-innovative-solution-saves-up-to-70-million-liters-of-fresh-water.html>

Editorial office and responsibility:

V.i.S.d.P. & Sect. 6 MDStV (German Interstate Media Services Agreement): Zayad Alshaikhli

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