

ECOLUTIA SERVICES UNVEILS THE WORLD MOST EFFICIENT MOBILE REVERSE OSMOSIS SYSTEMS TO THE POWER INDUSTRY AT POWER-GEN EUROPE 2010

The Triton Series systems provide the power industry with an opportunity to greatly improve efficiency in treated water availability. The high flow and high efficiency mobile reverse osmosis fleet can produce approximately 1500 m³/d (~387,000 US GPD) of treated water, reduce costs, reduce fresh water extraction, reduce wastewater discharge and reduce project water footprints.

FOR IMMEDIATE RELEASE: Zürich, Switzerland (08 June, 2010) – Ecolutia Services formally presents its Triton Series reverse osmosis systems to the power industry at POWER-GEN Europe 2010, Amsterdam, The Netherlands. The Triton Series is part of the world's newest and most efficient fleet of mobile water and wastewater solutions for on-site treatment to overcome any critical water difficulty. The seawater and brackish water variants are both containerised for ease of deployment globally at short notice. Automated technologies are incorporated to ensure optimised system performance and a lower cost of operation.

Over two decades of in-house field, technical and engineering expertise are combined to develop and construct the Triton Series. The variety of treatment options available from Ecolutia Services means customers can use the fleet as a backup support service to remain operational during an outage of their water treatment plant or whenever it encounters difficulty. Additionally, the standardised and modular systems can be combined to achieve a greater volume or quality of water required for a variety of applications.

The seawater system, known as the Triton SWRO60, incorporates a two-train design providing a product flow of 60 m³/h (265 GPM), with integrated energy recovery devices. With an industry leading power efficiency of <2.8 kWh/m³ customers can benefit from economic and resource savings throughout the project. The Triton SWRO60 provides the flows customers require whilst reducing environmental footprint, energy and transportation costs.

The materials of construction used in the Triton SWRO60 are of a superior manufacture in order to maximise the production capabilities on high salinity water. The scope of treatment ranges from brackish water borehole of 10,000 TDS through to high salinity seawaters of up to 45,000 TDS, without compromising output. Such a wide treatment profile offers added confidence in the robustness of the system and project success.

Commenting on the presentation of the Triton Series at POWER-GEN Europe 2010, Ken Schmidt, CEO – Ecolutia Services said, "Both the seawater and brackish water systems are designed to fulfil the spectrum of applications for the power industry. We have incorporated 20 years of experience with the knowledge and feedback of key industry players. The Triton Series is a high flow and high efficiency water treatment solution, designed to meet the growing demands of the industry. We aim are setting new benchmarks for outsourced on demand water treatment services."

The brackish water system, known as the Triton BWRO65, can treat surface waters to a quality suitable for use in all industrial applications. The system incorporates two tanks to allow custom loading of filter, carbon or ion-exchange softening media as pre or post-treatment. The system also includes on-line monitoring, automated backwash and regeneration sequencing for system control. Chemical feed systems are deployed for scale control to optimise performance and the fail-safe shut-down features ensure quality and quantity of water is maintained during operation.

Each Triton BWRO65 system has three modes of operation; single-pass, double pass and Ecolution®. In single pass a 65 m³/h (286 GPM) flow of treated water at 5-20 µS/cm is achieved. However, for superior water quality needs the double-pass operation can achieve produce 27 m³/h (118 GPM) at <5 µS/cm. An additional feature of the Triton BWRO65 is its third mode known as Ecolution. On a feedwater of <500 TDS the system operates at a higher recovery to increase flow while reducing waste. This patented process means the reverse osmosis system operates at up to 90% recovery, offering substantial water efficiency savings. For optimal efficiency, the design of the full system array permits reconfiguring of the setup to match specific feed and product water requirements.

The global increase in demand for water is at the heart of the updated products from Ecolutia Services and its sustainable approach to water treatment. Customers can benefit from solutions to drought-proof supplies, reuse water, recover and treat wastewater, while using products with greater productivity, greater efficiency, lower logistical costs and lower energy consumption.

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About Ecolutia Services

Ecolutia Services offers industrial and municipal customers a ‘one-stop-shop’ portfolio of water, wastewater and environmental solutions. Our portfolio of products and services incorporates the world’s newest and most efficient fleet of mobile water treatment systems and gas treatment, waste-to-energy process and industrial automation products. Available 24-hours, 365 days a year, whether for emergency, short-term or long-term use Ecolutia Services can solve a range of critical water issues, ranging from overcoming water scarcity, avoiding plant shut downs through to total water provision.

The management team of Ecolutia Services collectively have over 100 years of industry experience, including senior leadership roles in well known industry organisations. A number of the team are pioneers of innovations brought to the market over the last 20 years and have deep domain knowledge and understanding to develop products to solve the world’s water needs for the 21st century. The team share a clear vision to develop innovative technologies, provide greater customer focus and expand the mobile water treatment sector through wider choice and more environmentally friendly solutions.

Ecolutia Services is the services provider of the Stulz Hager+Elsässer Group which has a large group of globally dispersed personnel located in a network of offices, plants and depots. With its reputation of high quality design and engineering skill, Ecolutia Services integrates this wealth of experience into all of our cleantech solutions to meet customer requirements globally. Our service options also include operation and maintenance, design, project planning, construction, plant optimisation and project financing.

For further information please visit www.ecolutia.com.

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