Nexo Engineering & Consulting: Produced Water & Sour Water

A combination of factors in recent years has led to increased attention to water management in the oil and gas industry. Some of these factors include limited water resources in certain areas, development of water-intensive technologies to better exploit unconventional plays, excessive transportation, disposal costs, a changing regulatory environment for water disposal and public pressures for sustainability and conservation of water resources. The industry is taking a renewed approach to solving water management challenges.

One challenge in particular is the fact that produced water must often be treated prior to disposal, reinjection, or reuse. Capital and operating costs associated with most treatment systems can be very high. Other issues our clients are facing include plugging of disposal wells and producing formations by solids and suspended oil droplets, process fouling due to deposition of inorganic scales, exceeding discharged oil concentrations, and bacterial growth plugging lines and valves or resulting in the formation of harmful products.

The need for suitable and economical management of produced water is hence a critical need, and Nexo Solutions is committed to developing and applying novel and effective solutions. Nexo utilizes a wealth of experience and expertise in water treatment applications and the necessary proficiency in engineering, analytics and troubleshooting to eliminate issues and reduce costs. Nexo also provides high performance separation systems for produced water that will lower operating and capital costs and improve water quality. In addition, secondary water treatment options that allow produced water re-use for beneficial uses are sought after and often utilized.

Produced water streams are generally high in flow and contamination and require high performance separation equipment. The capital and operating cost associated with these systems can be very high. Effective recovery of hydrocarbons and solids from produced water systems mitigates the potential for process upsets and assures reliable, stable operations benefitting both plant performance and the health and safety of our communities.

How do you attain better management of produced water while lowering your costs? Nexo’s produced water solutions provide producers, processors, and service providers with dramatically improved solids control and oil recovery from produced waters. We afford proven performance in finding and eliminating root-cause issues, evaluating and optimizing current separation equipment, and implementing novel technologies for unique applications. Our evaluations result in cost-effective and elegant solutions that eliminate the need for excess processing capacity, recover valuable hydrocarbons, and meet specifications for water quality.

For additional information please contact us at info@nexosolutions.com