Efficaciousness in the Offing for Growing Water Challenges by Ashwini Gavale

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In the last two decades of Aquatech's existence in India, they have gained a significant leadership position in terms of addressing water scarcity challenges by providing state of the art solutions in the areas of both desalination and wastewater treatment, as well as recycle for mainly power and oil & gas sector.

The companies globally have adopted the Zero Liquid Discharge as an economy viable method of treating liquid affluent in the sectors such as automotive, mining and power industries. Large volumes of water gets used by The Gulfâ€™s oil and gas industry and its petro=chemicals sector. The water that gets produced by the oil wells have to be injected back into the ground for it being too polluted for other uses. Here, Zero Liquid Discharge comes into the picture as it technologically opens up the possibiity of treating this water and re-using it. Zero Liquid Discharge may prove suitable for use in an oil recovery projects, just like in the case for Occidental Petroleum based in Oman. At this plant about 90% of the water is purified through an MVC system, which Aquatech says lends itself well to a Zero Liquid Discharge configuration at a later stage if limits are placed on water disposal at the facility.

Zero Liquid Discharge can be built into most industrial exsisting processes. However, the integration needs to be done on a case-by-case basis and needs to be evaluated and implemented according to project and site constrains. The greatest impact from Zero Liquid Discharge will come in the more environmentally-sustainable use of waste from the desalination process as it would boost the yield of drinking water, reduce the destruction of sea grass and other marine life. Also reduce and eliminate the need for outfall structures. Moreover It will produce salt for the chloro-alkali market and for human consumption. Another potential use of Zero Liquid Discharge is in district cooling.

Inspite of the numerous benefits of the Zero Liquid Discharge, it still faces some challenges. These include cost, space, legacy system integration, operability and additional energy consumption.

Apart from this, Aquatech is aiming to further consolidate itself as an integrated EPC/BOOT solutions provider for both large scale industrial and municipal wastewater and recycle reuse requirements, to be recognized as a key and reliable technology partner in reducing water as well as carbon footprint by power producers, process industries and mainly HPI/CPI segments.

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The author, a professional content writer is an ardent reviewer of Water Purification Systems. Being passionate about the quality of drinking water, she has written numerous articles on water purification technology and a Zero Liquid Discharge. She is currently assisting Resource for Aquatech.

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