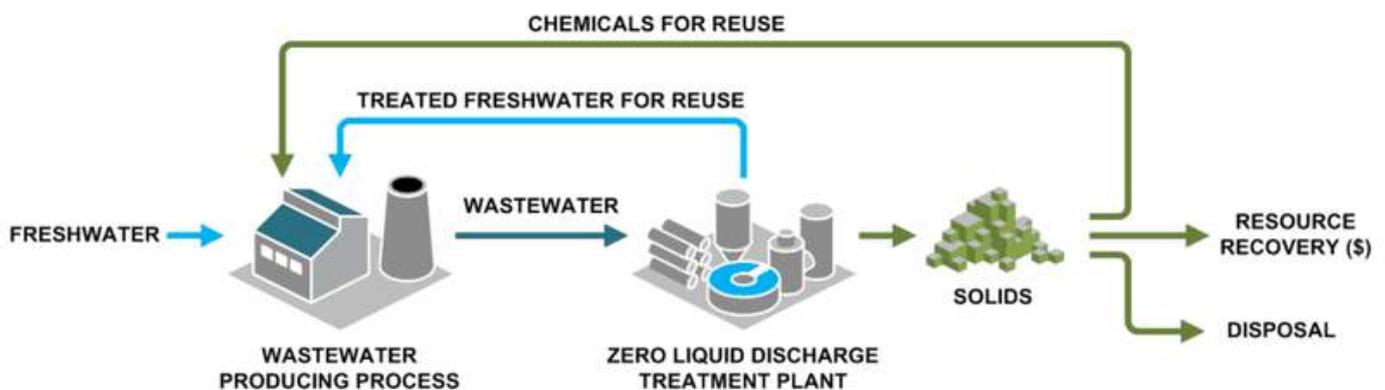




# THE HYPER GAZETTE

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## ZLD (ZERO LIQUID DISCHARGE)

Zero liquid discharge (ZLD) is an engineering approach to water treatment where all water is recovered and contaminants are reduced to solid waste. While many water treatment processes attempt to maximize recovery of freshwater and minimize waste, ZLD is the most demanding target since the cost and challenges of recovery increase as the

wastewater gets more concentrated. Salinity, scaling compounds, and organics all increase in concentration, which adds costs associated with managing these increases. ZLD is achieved by stringing together water treatment technology that can treat wastewater as the contaminants are concentrated.



## BENEFITS OF ZERO LIQUID DISCHARGE

- No cost on WW disposal
- Compliance with environmental regulation
- Augmenting Water supply
- protecting the environment

## WHY IT IS IMPORTANT?

Zero liquid discharge (ZLD) is a strategic wastewater management system that ensures that there will be no discharge of industrial wastewater into the environment. It is achieved by treating wastewater through recycling and then recovery and reuse for industrial purpose. Hence ZLD is a cycle of closed loop with no discharge. Although ZLD is a costly process, it paves the way for economic benefits by recovering salts and other chemical compounds. Factors that motivate the ZLD system are:

1. Water scarcity
2. Water economics
3. Environmental regulations

