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ENGINEERING

Enhancing Water Quality and Environmental Sustainability in ICS Manufacturing with Zero Liquid Discharge (ZLD)

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Introduction

IMPORTANCE OF SUSTAINABILITY IN ELECTRONICS



Rapid Growth and High Turnover



Resource Intensive Manufacturing



Environmental Impact



Regulatory Compliance



Corporate Social Responsibility



Long-Term Viability

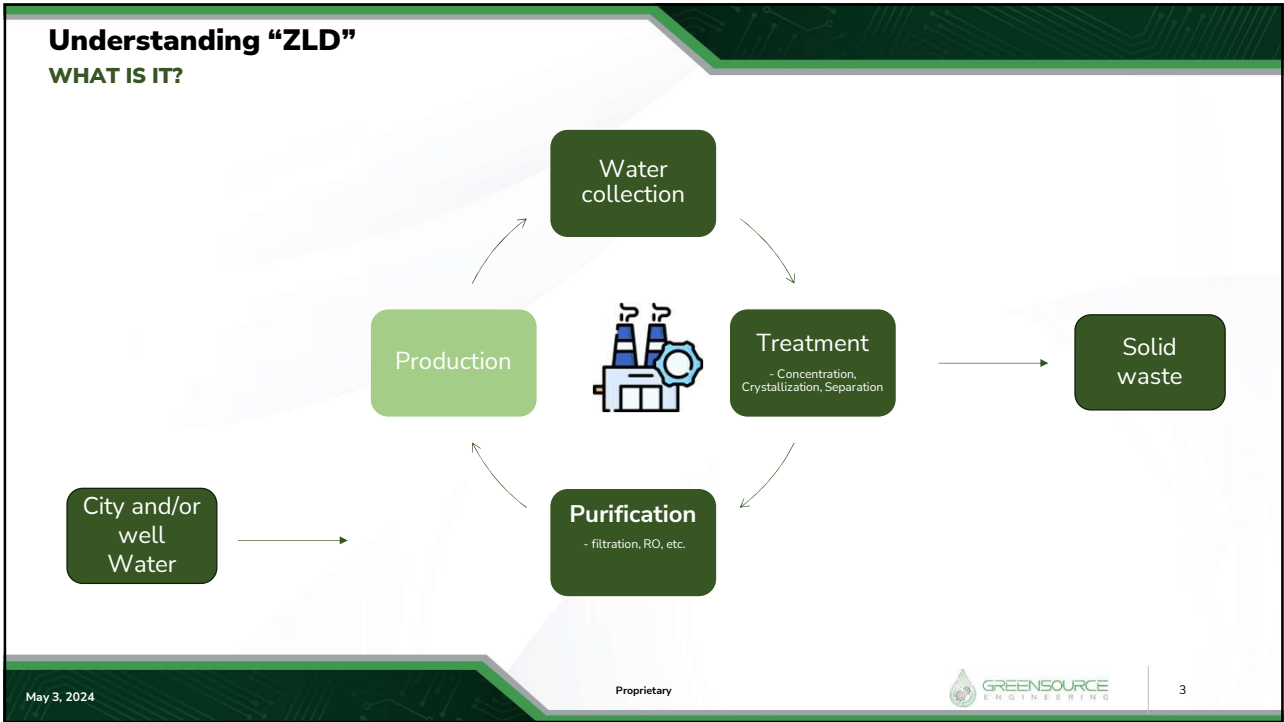


Source: unitar.org



Mumbai's Challenge for Pollution Control




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Understanding "ZLD"

BENEFITS IN INDUSTRIAL APPLICATIONS

- **Water Conservation**
As freshwater resources become increasingly scarce, ZLD helps industries conserve water by treating and reusing wastewater for various purposes.
- **Environmental Protection**
By eliminating or significantly reducing liquid waste discharge, ZLD helps protecting environment from pollution and contamination.
- **Compliance with Regulations**
In regions with stringent environmental regulations, ZLD can help industries comply with wastewater discharge limits.

May 3, 2024

Proprietary

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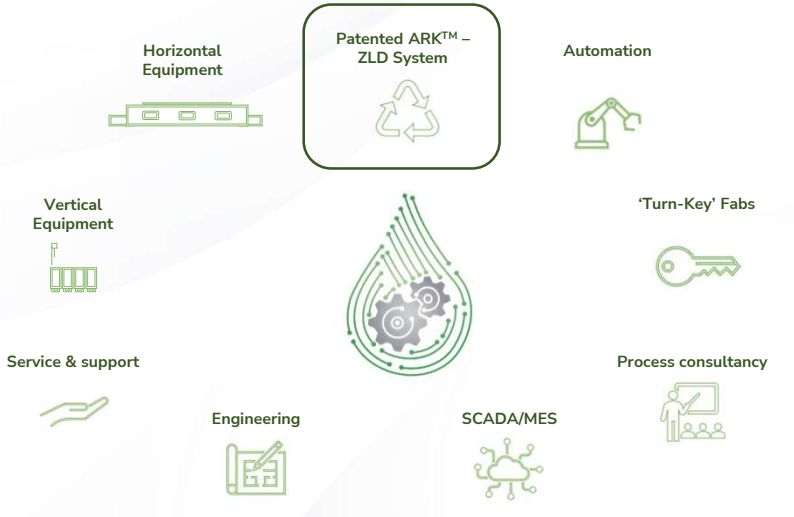
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Technology Solution by GreenSource – True “ZLD” with Close Loop System



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GSE Committed to Solutions SOLUTION OPTIMIZED FOR PCB & ICS MANUFACTURING



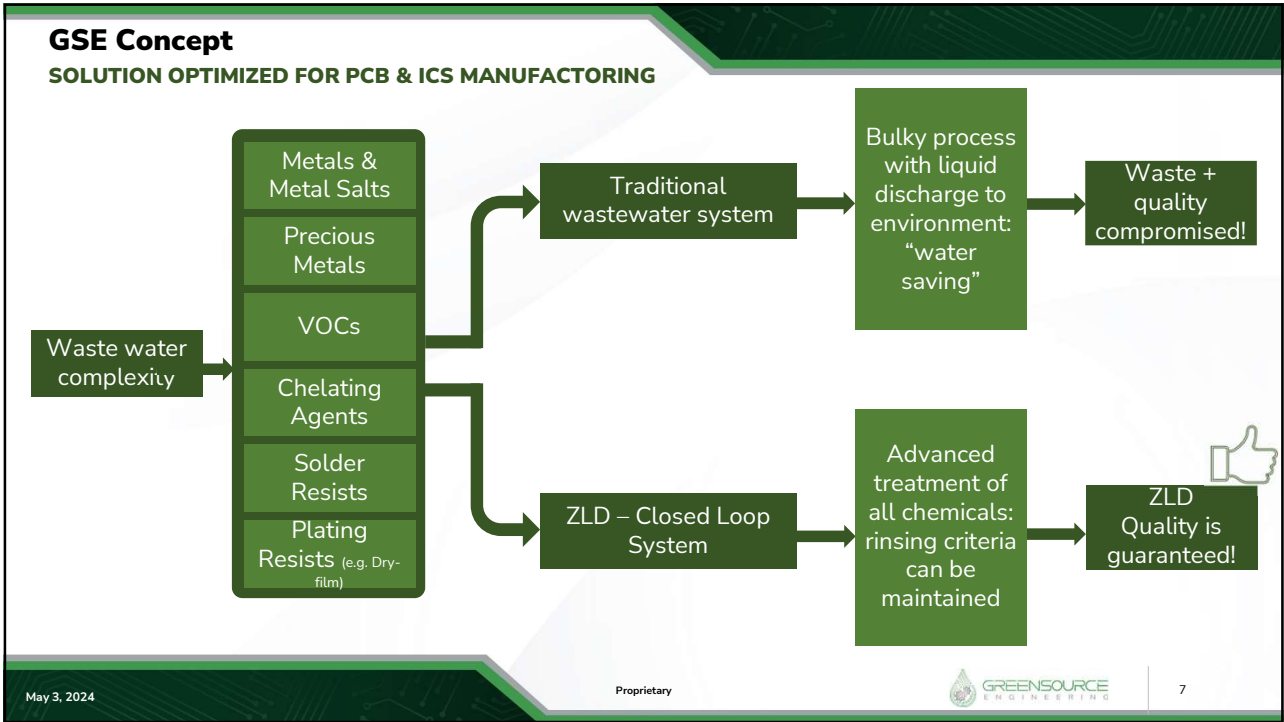
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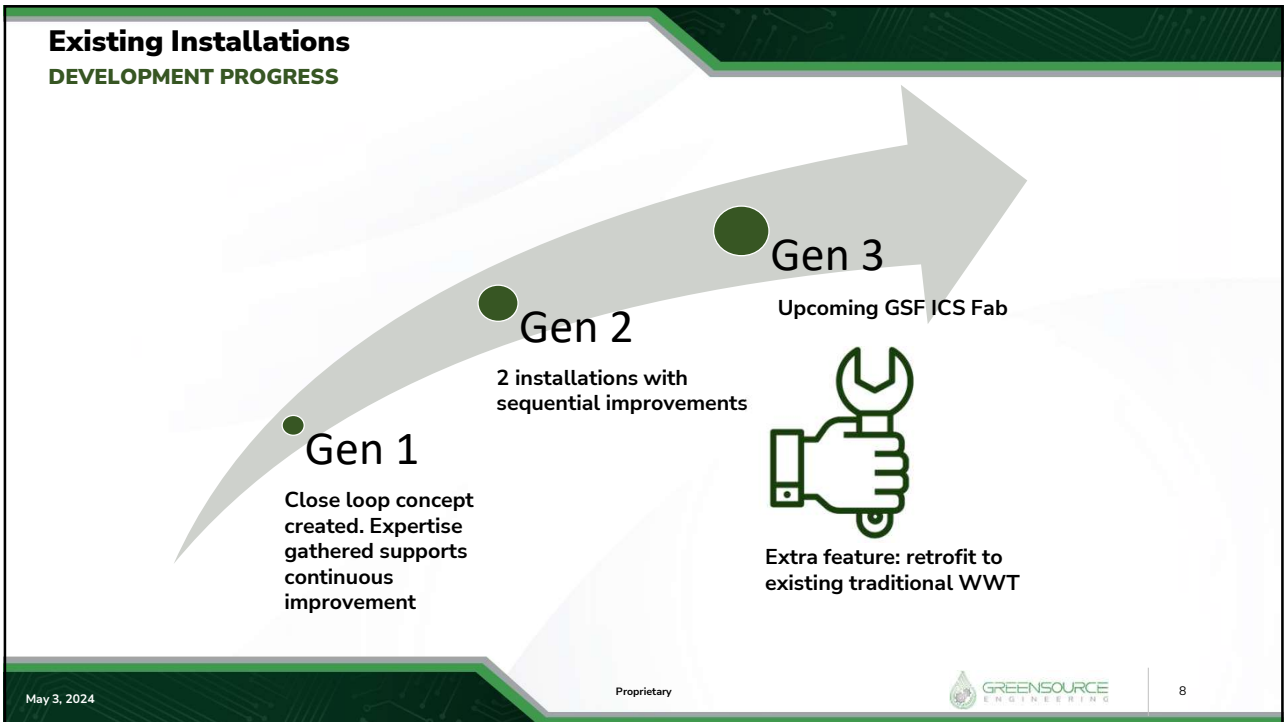


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Summary

- Taylor Made Close Loop System**
 - ZLD system solution tailored for PCB and IC substrate manufacturing.
 - Capable of adjusting to varying production volumes, ensuring flexibility and scalability. Retrofit to existing systems is also possible.
- Proven System**
 - Concrete data from existing installations demonstrate system effectiveness and reliability.
 - Case studies highlight substantial improvements in sustainability metrics.
- Economical & Environmental Benefits**
 - Reduces operational costs by minimizing waste disposal and water usage.
 - Enhances compliance with environmental regulations
 - Eliminates wastewater, significantly reducing environmental impact and conserving valuable resources.
- Future & Outlook**
 - Execution of the GSF2 wastewater system project.
 - Complete the Cu recovery alternative approach

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Thank you for your attention!

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