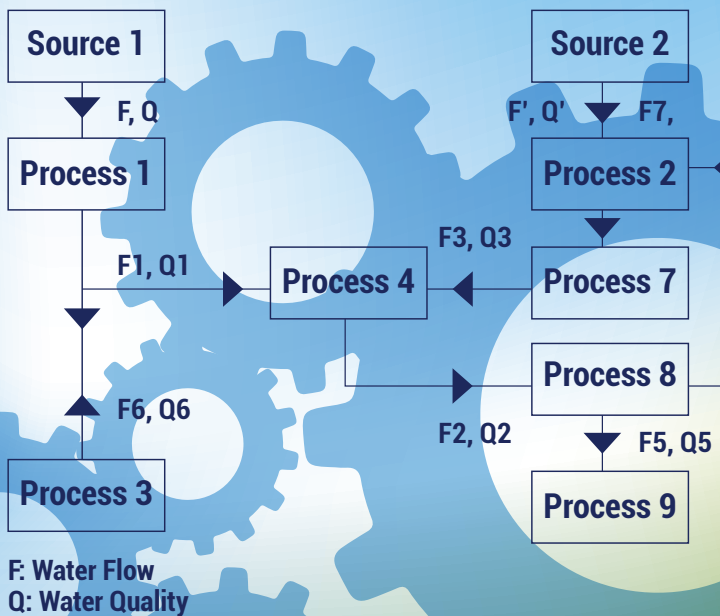


Water Pinch: A Process Integration Tool

for monetary gains through enhanced wastewater reuse & salt management



Unique Features

- ✓ Helps industry proactively move beyond compliance
- ✓ Reduces capital-intensive activities for wastewater management
- ✓ Property-based water allocation network
- ✓ Helps optimize salt loads and accumulation

CII has Extensive Experience of Conducting Water Pinch Studies

- Water Pinch study at a Pharmaceutical unit identified
 - 💧 Freshwater reduction: **33%**
 - 💧 Wastewater reduction: **54%**
 - 💰 Monetary savings: **17 Million INR**
 - 💧 **Enhanced salt loads at MEE** leading to reduction in steam requirement

Water Pinch

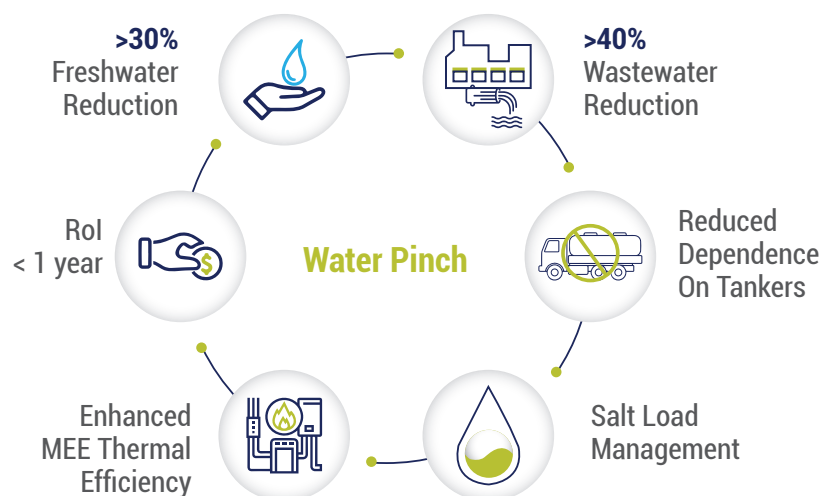
- A world-class optimization technique
- **Enhances water reuse** through integration of water-using activities
- **Eliminates overload of flow and salt** at the ETP

Integrating Triple Bottom Line Approach

 **ECONOMIC**
Minimize CAPEX

 **ENVIRONMENTAL**
Reduction in Freshwater, Wastewater and Salt

 **SOCIAL**
Enhancing Ownership



For more information contact:

Kandarp Shivpuri, Head – Water Pinch | +91-8741901569 | kandarp.shivpuri@cii.in | ceo-twi@cii.in
CII Triveni Water Institute, Confederation of Indian Industry
2nd Floor, Andhra Association Building, 24-25, Institutional Area Lodi Road, New Delhi – 110003