



ALTA PROCESS SOLUTIONS

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INDUSTRIAL PROJECTS

Project No.: 18

Industry: Crude Oil Refining

Project Subject:

Water Consumption Optimization Study Using Water Pinch Technology

Challenge:

This project consists of verification and feasibility study of conservation and optimization of water consumption and waste-water producer systems in a Petroleum Refinery plant. By using the most modern Water pinch technology, 38% freshwater saving was realized.

Proposed Solution:

Water consumption minimization and reducing wastewater generation was reached via these strategies, individually and/or using a combination of any of these approaches:

1. Process Changes: Retrofitting, modification and changes made on the processes requiring water
2. Water Reuse: Reusing water discharged by a process unit as water intake for the next process unit downstream.
3. Regeneration Reuse: Treatment of discharged water from a process and reusing in another process
4. Regeneration Recycling: Treatment of discharged water from a process and reusing in the same process

Results:

