GOOD PRACTICES AND TECHNOLOGIES
Reducing Footprint in Water
Water Unites Us - SuizAgua América Latina

Implementing Company: Fabricato
Sector: ISIC Code 1312 Weaving of Textiles
Location: Bello – Antioquia- Colombia 6°19'41.64"N 75°33'20.28"O
Update: 02 Feb. 2018

Results
- 22% water withdrawal reduction. Equivalent to water use of 4000 homes.
- CO2 Reduction through wastewater neutralization process, it estimates to capture 723 ton CO2 annual.

Other Benefits
- 11.2 % wastewater reduction to public sewage and 12% savings in wastewater associated costs.
- USD 54,333,3 electricity savings.
- USD 221,000 water withdrawal savings.

Provider References
Provider: ODIS Filtering.
Contact information: http://www.odisfiltering.com/ - Israel.

Description Good Practice and Technologies
The Recirculation and color removal waste water treatment plant has modular technology. With 50,000 m3/month recirculation and treatment capacity of wastewater from indigo dyeing process and poplin and drill lines. Wastewater is neutralized with CO2 from thermoelectric plant before treatment starts, reducing pollutant emissions to atmosphere and carbon footprint. Water is treated and clarified to meet process water requirement for recirculation on closed loop. The plant has 2000 m3 oxidation tanks, there effluents are oxygenated and prepared for dyes removal, then goes to mechanical and chemical process through 4 reactors. Dyes are collected and delivered to authorized company in solid stated. Therefore, Denim finishing and dyeing processes are done without effluents to public sewerage. Wich is connected to Empresas Publicas de Medellin (EPM) collector.
A first stage allows treatment for 20 liters per second; in 2018 duplicate this capacity to 40 liters per second is intended. This will allow recirculate 100,000 m3 per month.

Operation and Investment Costs
Investment Cost: 3'442 USD year 2016.
Non-monetary costs: operation Human Resource, plant maintenance, and WWTP commissioning

limitations and Recommendations
No relevant recommendation.

References
https://www.youtube.com/watch?v=Nrp2Xnp_y1s

Recirculation and color removal waste water treatment plant
Solution Type: Water reduction. Water reuse.
SDG: 6.3 Improve water quality. 6.4 Water efficiency.