

GOOD PRACTICES AND TECHNOLOGIES

Reducing WATER FOOTPRINT

El Agua Nos Une – SuizAgua América Latina

Mexichem.
SOLUCIONES INTEGRALES

Improvement of water storage
and distribution system in
production plant

SDGs addressed: 6.4 Water efficiency



Implementing Company

Mexichem

Sector: 2013 Manufacture of plastics and synthetic rubber in primary forms

Location: Mexichem, El Agustino, Lima, Perú
Coord. UTM 8'666,569.24 N 284,878.69 E

Last update: 2015, November



Results

- Reduction of water consumption 15,891 m³/year of water



Additional benefits

- Savings for reduction of water consumption 31,059.69 USD/year



Supplier references

Supplier: Engineering Division (Internal)



Implementing Company

Implementing Company: Mexichem

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Description of good practice

Mexichem used a water storage tank for domestic use (for administrative areas, toilets, dining room, dressing rooms, irrigation of green areas) and industrial use (for productive process and fire protection system). During maintenance days, this tank must be empty. In this process, the company was unsupplied of water for a long period of time. Mexichem designed and built a new storage and distribution infrastructure of water, segregating drinking water for fire protection system, for domestic usage and for industrial usage too, getting better information from monitoring. Mexichem adapted to new requirements (norms) of civil defense office, which indicate that the different volumes of water must be independently managed, according to types of use. Mexichem managed to reduce 15,891m³/year water consumption in non-productive processes. Principal activities: structural designs, installation of provisional tanks, construction of underground tanks and independent pumping systems, supervision of construction, water consumption monitoring (monthly)



Investment and operational costs

Costs: 174,384.84 USD/12 months

Lifespan: 50 years



Recommendations and limitations

- No recommendations



Applications

Do not apply



References / links

- Agencia Suiza para el Desarrollo y la Cooperación COSUDE, ONG Agualimpia, Empresas socias (2015). Guía de buenas prácticas para el uso eficiente de agua en empresas SuizAgua Andina Perú. In: <http://bit.ly/GuiaBuenasPracticasSuizAguaPeru>