

GOOD PRACTICES AND TECHNOLOGIES

Reducing WATER FOOTPRINT

El Agua Nos Une – SuizAgua América Latina



Installation of level sensors in tanks for the elaboration of ice cream

SDGs addressed: 6.4 Water efficiency



Implementing Company

Nestlé Perú

Sector: 1050 Manufacture of dairy products

Location: Nestlé, Cercado, Lima, Perú
Coord. UTM 8°656,199.24 N 281,326.06 E

Last update: 2015, November



Results

- Reduction on water use 812 m³/year



Additional benefits

- Saved costs in 1,586.96 USD/year for the reduction of payment for the use of industrial water



Supplier references

Supplier: Internal Engineering



Implementing Company

Implementing Company: Nestlé Perú

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Description of good practice

One of the phases in the process of elaboration of D'onito ice cream is the pasteurization. It consists in putting the blending through 80°C of temperature during a period of time, and then get the blender colder rapidly. It eliminates microorganisms without altering the composition and qualities of the blending. After using the pasteurization tank, there are waste proper of the ice cream preparation process, and it is important to wash the tank constantly. It caused water loss for lack of operative control. Nestlé visualized an improvement opportunity to save water resources through the installation of level sensors in one of the tanks. These electronic devices measure the quantity of water inside the recipient, avoiding the waste of water, improving the control of the use. It generates more than 800 m³/year reduction in consumed water after the installation of the sensors. Principal activities: installation of a level sensor in 10 tanks for the elaboration of ice cream, installation of a control valve in 10 tanks for the elaborations of ice cream, installation of a level controller in 10 tanks for the elaborations of ice cream, monthly monitoring of water consumption



Investment and operational costs

Costs: 4,545.45 USD/12 months



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>