



**Case study:**

**LALA**

**Aguascalientes, México. 2011.**

**Client problem**

The dairy company Grupo Lala (LALA) operates a factory in the state of Aguascalientes in Mexico. Until the year 2013, the wastewater from the factory was treated in a wastewater treatment plant (WWTP) with a physicochemical process based on dissolved air flotation (DAF), chemical oxidation and filtration. Due to a wrong selection of the unit processes, the WWTP did not consistently comply with the quality required by LALA in the effluent.

**IBTech®'s solution**

- Modification of the treatment train configuration.
- Incorporation of an anaerobic biological reactor type UASB into the existing process, which was located after the DAF.
- Wastewater cooling before entering the UASB reactor, through an induced flow cooling tower.
- The existing chemical oxidation was used as a polishing phase of the UASB reactor effluent.

**Results**

- Nowadays, the LALA Aguascalientes WWTP has enough infrastructure to treat its wastewater optimally.
- The treated water meets the required quality by LALA.



UASB anaerobic reactors



Biogas burner



Output of biogás from UASB anaerobic reactors



Pretreatment



Línes for biogas



Biogas burner

IBTech® is a 100% Mexican company with more than 22 years of experience, dedicated to the diagnosis, design, construction, start-up and operation of water treatment plants, as well as biogas generation plants and energy from biomass.

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