Harvesting and recovery of rainwater
SDG: 6.4 Water Efficiency

Company / implementer: Buencafé
Sector: ISIC 1063. Production of coffee extracts and concentrates and lyophilized coffee.
Location: Chinchiná, Caldas 4.988483, -75.610597
Update: 19 Jan. 2018

Description
Separation, harvesting and recovery of rainwater harvested in 2,330 m² of roofing: 996 m² of plant roofing, 880 m² of service area roofing and 454 m² of cooling area roofing. The areas described have an average harvesting capacity of 9,490 m³/year, maximum capacity of 51,100 m³/month and a minimum capacity of 4,015 m³/month. The water is led through a rainwater sewer system to a storage tank with a capacity of 300 m³. The water is then used in the production process, which requires treatment to guarantee compliance with the applicable quality standards.

Due to the cost of the project and the impact caused to the plant’s operations, the project will be completed in stages, starting with the main harvesting networks and storage structures in 2017 and with a completion date set for 2019.

Investment and Operating Costs
Investment Costs: USD$92,317.68 plus VAT in three years. USD$6,778.23 were invested in 2017.
Operating Costs: treatment costs for the estimated volume of rainwater are expected to reach USD$1,576.67 per year.

Recommendations and Limiting Factors
The main limitation to the implementation of this project is the occurrence/frequency and intensity of rainfall.

Other benefits:
We estimate annual savings equivalent to USD$3,796 as a result of replacing water from the aqueduct with rainwater.

Supplier Information:
Phase 1 of Construction (2017): Jose Ignacio Londoño G. S.A.S.
Contact Information: http://www.aia.com.co/es/

Implementing Company
Company in charge of implementing the solution: Buencafé Liofilizado de Colombia Federación Nacional de Cafeteros de Colombia.
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Results
- We expect a reduction in the monthly use of water from the Campoalegre aqueduct of Chinchiná in Caldas equivalent to 9,490 m³/year.

References
BEST PRACTICES AND TECHNOLOGIES
Reducing our Water Footprint
El Agua Nos Une – SuizAgua América Latina

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