SOLVAY

Reducing Paulínia's site water intake with a closed loop system

Solvay's Paulínia plant, operational since 1942, produces **phenol and derivatives, polyamide intermediates, solvents, and silica** for consumer goods, packaging, automotive, building and other markets. Located in Brazil's Atlantic Forest, it holds Gold Level certification for Biodiversity Conservation from the Wildlife Habitat Council.

The water project consists in installing two cooling towers to **reduce 4.2 million m3/year of water intake** from the rivers that cross the site in Paulinia. It is well-aligned with Solvay Group's targets of reducing the use of our planet's natural resources.

-10%

water intake per year vs 2021

Water efficiency project: advancing resource conservation at Paulínia

With water scarcity and frequent droughts intensifying globally, the Paulínia site is implementing a **closed-loop cooling system to cut water intake by December 2024**. This change builds on its commitment to resource conservation, having already reduced water intake by over 70% to protect this finite resource and ensure business resilience.

In the new closed-loop system, water will continuously circulate to cool industrial equipment, with two cooling towers minimizing evaporation and drift losses. This approach not only **conserves water** but also **enhances water quality**, reducing scaling and corrosion to extend equipment lifespan and decrease maintenance and water treatment costs.

> Solvay has developed water intake and consumption reduction roadmaps for over 20 sites worldwide.

By preserving river resources, the project will contribute to stabilizing river levels, protect biodiversity, and support local community water needs, aligning with Solvay's sustainability goals.