

Reducing Paulínia's site GHG emissions through biomass



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.



Since 2005, the site has significantly reduced carbon emissions through a nitrous oxide abatement unit, energy efficiency measures, and the use of renewable electricity. This new project will further reduce emissions by shifting from natural gas to **biomass for steam generation**.

-97%

CO₂ annually vs 2005



Biomass for steam generation: transitioning to renewable energy to meet low-carbon demands

The Paulínia site will install a **biomass boiler to power about two-thirds of its steam production**, reducing reliance on fossil fuels and lowering GHG emissions. The boiler will use sugarcane bagasse and eucalyptus chips as biomass fuels, which are locally sourced and sustainable. This will contribute to a closed-loop carbon cycle, making it carbon-neutral over the long term.

- -140 kilotons of CO₂ emissions per year
- -97% GHG emissions by 2027 (vs 2005)
- -12-20% product carbon footprint

The project will drive a **1.6% reduction** in Solvay's Group-wide GHG emissions vs 2021, contributing to the company's goal of a **30% reduction in GHG emissions by 2030**.

The biomass boiler will create local jobs, strengthen the biomass supply chain, and **support Brazil's climate targets**. With 83% of its electricity from renewables, Brazil leads in clean energy. This project aligns with Solvay's strategy to stay ahead of global sustainability trends and meet the decarbonization demands of customers and consumers.