

CLIENT CASE

POWER PROTECTION FOR BRACELL SP'S GAS INCINERATION SYSTEM



MANUFACTURING BRAZIL

- UPS type: Dynamic UPS
- Power module: 2x 2000 kVA and 2x 3000 kVA
- No-break rating: 1600 kW and 2400 kW @ 0.8 pf of net usable power
- Engine rating: Stand by power rated at 2000 kVA and 3000 kVA
- Total install: 4x modules in total
- Operating voltage: 690 V/60 hZ
- Configuration: Single and parallel systems
- Housing: In building

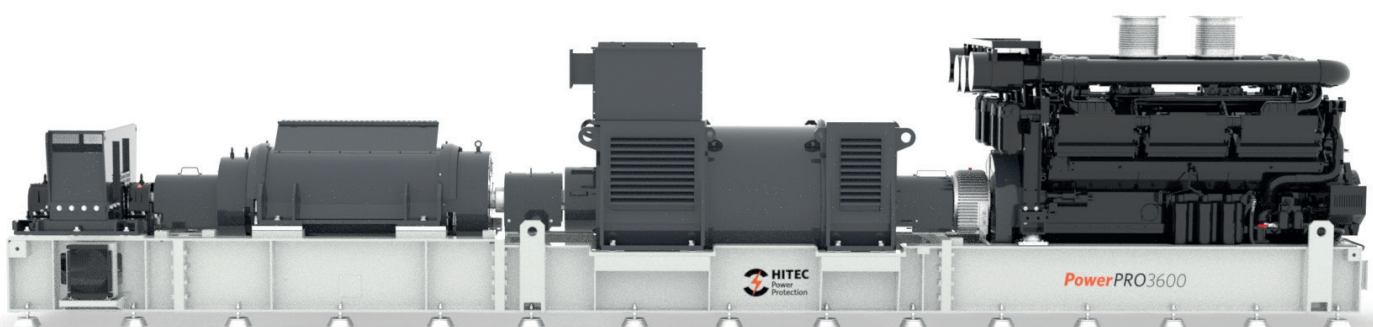
Project Star is an ambitious project undertaken by Bracell to expand its production capacity from its current capacity of 250 thousand tons/year of kraft pulp, to 1,5 million tons/year of specialty cellulose or up to 3 million tons/year of kraft pulp.

The expansion work has already begun and should be concluded by the second half of 2021. Project Star represents the biggest private investment made in the State of São Paulo over the last 20 years.

Project Challenge

One of the main challenges in such an increase in production is dealing with the volume of non-condensate gases (NCGs) created during the production of Bracell's main product, dissolving pulp. NCGs are composed mostly of sulfur gas and gaseous methanol. At a low concentration, they give off a very strong rotten egg smell, but at slightly higher concentrations, they are toxic. To manage this, Bracell incinerates these gases through a quench-type incinerator, thus enabling a safe and environmentally friendly treatment of all types of diluted or concentrated malodorous and toxic gases.

Bracell needed to prevent the incineration process from being interrupted by blackouts and utility variations and from spreading gases to the neighboring cities, which would irritate inhabitants and result in the company having to pay fines. To resolve this, Bracell chose to use state-of-the-art HITEC Power Protection DRUPS to protect the entire incinerator system, which comprises innumerable pumps, control equipment, and the incinerators themselves.



Project Solution

HITEC Power Protection worked together with Andritz (NCG system supplier) and Cummins (BoP supplier) to provide a turnkey solution for two PowerPRO3600 units, 3000 kVA each, running in parallel, and two PowerPRO2700 units, 2000 kVA each, running independently, with both being installed in dedicated energy buildings, separate from the NCG System.

The PowerPRO3600 units and PowerPRO2700 units are reliable power protection solutions, which are capable of supporting motor overloads and innumerable load variations, and of unobtrusively transferring operations from utility mode (harmonic filter + utility regulator) to diesel mode (diesel generator) during blackouts, thus ensuring the equipment always runs smoothly.

“HITEC POWER PROTECTION PROMOTES LONG-TERM SERVICE PARTNERSHIPS THAT DELIVER QUALITY, RELIABILITY, AND VALUE THROUGHOUT THE LIFECYCLE OF THE EQUIPMENT.”

Customer Experience

It is only after the handover to the client that the real journey begins. HITEC Power Protection promotes long-term service partnerships that deliver quality, reliability, and value throughout the lifecycle of the equipment. Our customized service solutions encompass an advanced remote monitoring platform, performance reporting,

service inspections, maintenance, training, and service consultation. Our helpdesk provides timely, high-quality support to all our customers worldwide, 24/7. Bracell SP and HITEC Power Protection have formed a long-term partnership to ensure that the power supply for this critical facility is in safe hands.



**CONTINUOUS POWER
IN YOUR CONTROL**

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