

Honeywell

Fertile Ground for Integration

Maximizing Production Efficiency for a Fertilizer Plant.

SLATE™ Integrated Combustion Management System enables quick decision-making, boosts efficiency, and streamlines operation of the production process – planting the seeds for enhanced productivity and performance.



Case Study





A large fertilizer plant in Mexico produces over 1,250,000 tons every year – exporting fertilizers to countries such as Cuba, Argentina, Brazil, and the United States. Within the factory, the process of heating sulfur provides gases that are used as a fuel source for various applications, including boilers – generating electricity through turbine movement. Given that manual operations were outdated and inefficient, a modern, automated control system became a necessity, and the plant wanted to maximize their investment with the cream of the crop. That’s why they chose the Honeywell SLATE Combustion Management System.

The Needs

Install a modern and automated control system to oversee the factory’s two industrial burners.

Implement smart system features that enable complex temperature management.

Save electricity with VFD installation on the combustion blower.

Provide key information to operators about furnace and combustion process status.

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For More Information

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Eclipse, Exothermics, Hauck, Kromschröder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

Honeywell Process Solutions

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The Solution

The SLATE Combustion Management System is a rugged, reliable, and flexible solution that exceeds even the most demanding industrial needs. It is comprised of Burner Control and Flame Amplifier Modules, a software application, and a full-color, 7-inch touch screen display with an intuitive, user-friendly interface. The SLATE AX Tool gives end-users the necessary control logic to create applications quickly and easily, using function block programming to save time.

By replacing the outdated, manually-operated system with SLATE, the plant maximizes its automation potential and achieves seamless integration. The result? Plant operators enjoy enhanced control of the industrial burners while conserving money and energy.

Control systems are used to monitor the temperature of the burners and manage the variable-frequency drive (VFD) of combustion blowers. The display lets operators view all the process variables from a single, convenient location – providing them with the critical information they need to make quick decisions and improve the efficiency and operation of the furnace.

With its faster programming, reduced engineering time, simplified inventory, and highly configurable settings, SLATE streamlines and simplifies the product development process for the fertilizer production plant – helping it achieve optimal efficiency.

The Benefits

- Full system automation with the capability of managing the factory’s burners and with programmable logic application.
- Enhanced control of burner temperature and plant operations through SLATE’s configurable modules.
- Flame safeguard use for the industrial burners with VFD control, enabling electricity cost savings.
- Key information is accessible to operators from a single location.