Entergy Solutions

Commercial and Industrial Solutions case study

BASF

$100,000
in incentives

Estimated
1,244,150 kWh
saved annually

Estimated
$82,736
saved annually

entergy

BASF – Geismar, LA

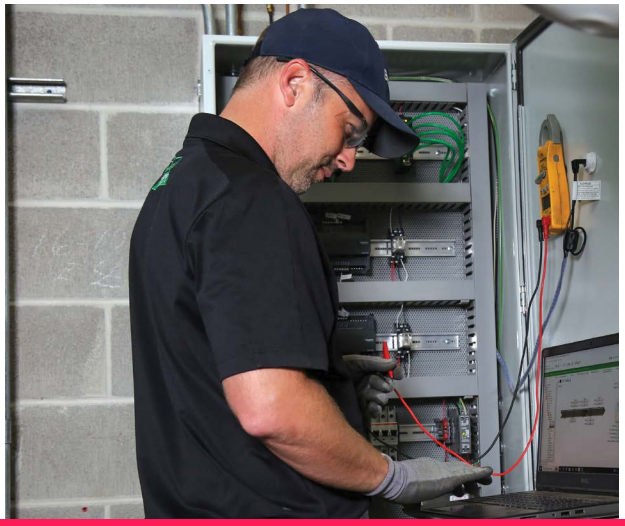
Project summary: BASF Geismar's Main Administration Building had obsolete pneumatic control systems that were unreliable and unable to effectively regulate static pressure which led to areas of inconsistent temperature, including hot and cold spots. The mechanical HVAC equipment operated continuously (24/7) to maintain the building at the desired temperature. The pneumatic controls lacked the capability to reduce system output during unoccupied periods.

Challenge: BASF Geismar administration building mechanical equipment was running 24/7. By reducing the operation time of this equipment, energy usage has been reduced significantly.

The Entergy Solution: Bernhard completed a controls system retrofit to upgrade the pneumatic infrastructure to Direct Digital Controls (DDC) for a chiller, one Variable Frequency Driver (VFD), two pumps, three exhaust fans, five Air Handler Units (AHU) for the AHU and eight Variable Air Volume (VAV) boxes with electric reheat. All this equipment (which used to run 24/7) is now scheduled to run from 5 a.m. to 7 p.m., Monday through Friday. BASF can now monitor airflow and building status through the control system's human interface. This capability enables assessment of the building from both airflow and static pressure viewpoints. As a result, problem areas can be identified and repairs performed before issues escalate.

"These HVAC upgrades are an example of how cost saving and sustainability can go hand in hand. By investing in digital controls and optimizing our energy use, we're not only achieving cost savings, but also making a positive impact on the environment."

Emory Ficklin
BASF HVAC Refrigeration Specialist



Ready to save energy and money? Contact Entergy Solutions today to speak with an energy advisor about available incentives. Call **844-829-1300**, visit **entergysolutionsla.com** or email **info@entergysolutionsla.com** for more information.