

Entergy delivers \$500M in economic impact for greater New Orleans

NEW ORLEANS — The Greater New Orleans region is experiencing economic advantages amounting to almost \$500 million as the city serves as the home to Entergy, its sole Fortune 500 company. A recent study conducted by Dr. Loren Scott, an economist from Louisiana State University, revealed that Entergy's overall economic contribution to New Orleans reached close to \$1 billion in 2021, primarily through sales totaling nearly \$500 million within the city.

Rod West, Entergy's group president of utility operations, stated, "Entergy's low-cost electricity is helping attract critical investments and is creating jobs, making the company a significant economic engine for the economy. For every job created at Entergy's headquarters, 2.8 jobs are created elsewhere in the state. And in New Orleans specifically, for every job created, 1.4 jobs are created elsewhere in Orleans Parish's economy."

"Having Entergy's headquarters located here in New Orleans makes a huge impact on our city's economy and on the state of Louisiana," said Deanna

Rodriguez, president and CEO of Entergy New Orleans. "We've always had a sense of that importance, and this study confirms it in hard numbers: Entergy's headquarters being in the city creates jobs, it generates sales for local businesses and it creates major tax revenue for the parish and the state."

Jobs supported by Entergy in New Orleans boasted an average wage of \$93,000. That exceeds the average annual wage of \$68,000 in Orleans Parish by more than 36%.

As one of New Orleans' largest taxpayers, Entergy pays more than \$17 million in local taxes and has supported nearly \$300 million in household income for New Orleans residents.

Each dollar spent by Entergy ripples through the state's economy, triggering employment, new income and spending in virtually every industry sector.

Entergy New Orleans recently revealed plans to invest \$1 billion in grid hardening projects for the city over the next 10 years.

For more information, visit entergy.com.



Energy efficiency and cost savings in asphalt facilities

QMax Industries

Why save energy? Simple answer — it saves money. Focusing on energy-efficient and substantial cost savings, key findings and recommendations from an energy assessment conducted at an asphalt terminal facility in New York was recently uncovered. Ultimately, the energy assessment revealed significant energy savings which can translate into huge cost benefits.

The ability of an asphalt terminal facility to make money depends on two main factors: lowering energy costs and improving operations. With fuel prices constantly on the rise, asphalt producers are challenged more than ever to reduce operating and energy costs. So, how does an asphalt producer save energy? Where do we start?

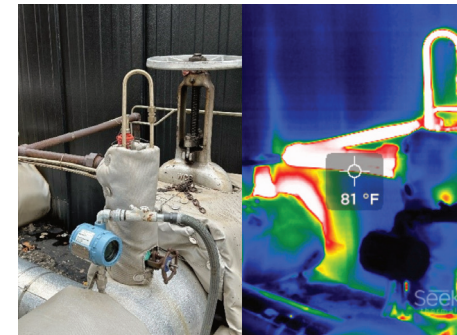
The first question asphalt facility decision makers must ask is, "What is the least expensive form of energy for heating?" This is where heat-transfer experts can guide decision makers to make sound assessments for the long-term benefit of the facility.

This recent energy assessment uncovered potential savings of more than 1 trillion Btu over the next 10 years given how certain high-ROI projects are executed. To have the largest savings possible, a new heat recovery steam generator (HRSG) was recommended, which would be fully dedicated to making steam that heats rail cars and any other steam user in the facility. With this change, two of the three existing hot oil heaters can be idled. This change would result in substantial annual energy cost savings and would save energy in three different ways:

First, the asphalt facility's heating system was initially set up to run three hot oil heaters. The majority of the heater capacity was dedicated to transferring heat from hot oil to the steam boiler for steam generation, thereby classifying steam as a tertiary energy source. The overall efficiency of the system was only 64% calculated as the product of the hot oil heater's 80% efficiency and the oil-to-steam heat exchanger's 80% efficiency. By removing the hot oil heaters and making steam directly in an HRSG from natural gas, the system would become greater than 85% efficient — Btu-to-Btu.

Second, electrical energy would be saved by turning off two of the three hot oil heaters. A single high-pressure pump running 24/7, 365 days per year uses about 130,000 kW of power. This change would save the facility almost 1 million Btu/yr of power or about \$45,000 annually and would save the world 20 million Btu/yr over 10 years.

Third, converting to newer steam and addressing any steam leak as part of the change would save the plant almost \$180,000



Thermal imaging indicating heat loss from missing or crushed insulation.

annually. Steam leaks, even small ones, are surprisingly low-lying fruit when it comes to saving energy. The DOE estimates that each steam leak costs about \$6,000 in energy waste per year. Additionally, by minimizing steam leaks, the asphalt facility can reduce the loss of condensate, eliminating the need for excessive make-up water to maintain a fully operational closed-loop boiler system.

Other findings conducted during the energy assessment:

- Converting tanks from steam to hot oil heating is highly recommended. Hot oil heats tanks faster and reduces energy loss from steam leaks and traps.
- Minimizing steam consumption, such as addressing steam leaks and reconsidering the need to leave steam valves open year-round, is advised. Fixing leaks would also save a calculated 300 gallons per hour of make-up water.
- Insulating exposed piping and equipment is essential for safety, process stability and energy conservation. The report suggested insulating gate valves, asphalt-storage tank manways and steam tracing areas to prevent energy loss.
- Using steam tracing for asphalt piping, where applicable, is recommended, as well as enhancements like aluminum tracing for better performance. Electric tracing, though easier to install, is not suitable for asphalt lines due to its limited heat-up capability.
- Operating pumps efficiently in such facilities will minimize energy usage since they are a major energy consumer.

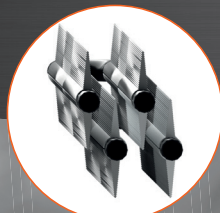
Through these recommendations, other facilities can achieve similar results, including enhanced operational efficiency, reduced energy costs and environmental sustainability. Finding solutions to meet current energy challenges is not only possible but can pave the way for a more sustainable future.

For more information, visit qmaxindustries.com.

Call to find out how together we can save the world 100 Trillion BTUs by 2029



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