

Local company reduces flare gas and emissions

Staff Reports

Matagorda County's Gulf Coast Green Energy (GCGE) is reducing oil and gas flaring and emissions from flaring.

GCGE teamed up with Hess Corp, the Houston Advanced Research Center (HARC), the Environmentally Friendly Drilling Program (EFD), Texas A&M, and ElectraTherm, Inc., to test the ElectraTherm Power+ Generator flare reduction system, at a Hess oil well in North Dakota.

The project captures the natural gas that would otherwise be flared to generate low emission electricity and reduce or eliminate onsite flaring by using the Power+ Generator.

"We're capturing an

excess fuel source that was being flared to the atmosphere and putting that fuel to use in the oil field," said one Hess engineer.

"The power generated is consumed on site and the equipment is easy to install and maintain. We're also optimistic that the emissions profile of the site will be greatly improved. Hess is committed to being a leader in environmentally responsible best practices and this is one of several solutions that Hess is exploring to fulfill that commitment and reduce flaring"

"We are pleased with the results of the project", said Loy Sneary, GCGE's CEO.

"Not only did we

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Contributed photo

Above is a full size rendering of the ElectraTherm Power+ Generator flare reduction system. Below left, workers unload the system at a Hess oil well in North Dakota. Below, right, a crew make the final connections on the system.



successfully generate power for the well pad operations, we used gas that was just being flared to the atmosphere to make the power and dramatically reduced emissions at the same time."

"We can now provide a proven technology that will help oil and gas companies reduce flaring, add to their bottom line, and do it in an economical and environmentally responsible way," said Sneyary.

The Texas A&M Institute of Renewal Natural Resources (IRNR) conducted research and collected data from the Hess test site in the Bakken Shale Play in North Dakota during September, 2015. The data was part of an emissions research study for comparing emissions from the Power+ Generator System to the emissions from open flaring.

According to the report "It is important to note that the emissions from the Power+ Generator system are lower (comparatively less harmful to the environment) and would provide the added utility of power generated for

otherwise be wasted."

The report includes this table to show the emissions reductions by the Power+ Generator system.

CO avg%	89.1
NOx avg%	48.1
VOC avg%	92.8

The report states that "The real benefit is the power generated by raw gas or fuel gas which would otherwise be wasted by open flaring. Furthermore, this new technology would meet the goals of the US EPA and North Dakota."

A short video on the project is available at https://youtu.be/_srTTY0j_E8.

About Gulf Coast Green Energy

Gulf Coast Green Energy specializes in selling and installing waste heat-to-power energy efficiency technologies for oil and gas, geothermal, industrial internal combustion engines, and industrial solar thermal applications. GCGE is the first ElectraTherm distributor and helped pioneer the development of several economically and environmentally sound solutions for the Power+ Generator including the flare-to-power solution for

landfills. Visit www.gulfcoastgreenenergy.com
About The Environmentally Friendly Drilling Systems

The Environmentally Friendly Drilling Systems Program managed by HARC, provides unbiased science to address environmental aspects associated with petroleum drilling and production operations. The objective is to identify, develop, and transfer critical, cost effective technologies, from site selection through gas compression, in order to provide policy makers and industry with the ability to develop reserves in a safe and environmentally friendly manner. For more information, visit www.efdsystems.org.

About the Houston Advanced Research Center

A nonprofit organization based in The Woodlands, Texas, HARC is a research hub providing independent analysis on energy, air, and water issues to people seeking scientific answers. HARC is focused on building a sustainable future that helps people thrive and nature flourish. For more information, visit www.HARCresearch.org.

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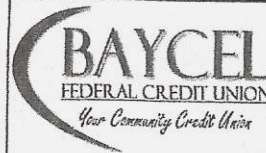
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