



Texas Industries of the Future

October 2012

DOE STEAM END-USER WORKSHOP TO BE OFFERED IN DFW AREA.

Industries and institutions in the DFW area can take advantage of this in-person training on the DOE Steam BestPractices tool suite. The training is designed for end users – at the energy manager, steam system supervisor, engineer, and operations level – who have steam system responsibilities in industrial and institutional plants. Register before Nov. 1 to get the Early Bird Discount. Go to <http://www.cvent.com/events/57412-steam-end-user-workshop/> to register online or call 817.272.5909 to register by phone.

REPORT AVAILABLE: LOW TEMPERATURE WASTE ENERGY RECOVERY TECHNOLOGY FORUM. Texas IOF and the Institute for Industrial Productivity hosted a Technology Forum on May 16, 2012 that drew 40 participants from chemical plants, refineries, technology companies, and research organizations. The report documents the types of low temperature waste energy streams that are untapped at chemical plants and refineries. Presentations from technology developers can also be viewed at <http://TexasIOF.ces.utexas.edu/documents.htm> Scroll down to “Conferences” to view the report and presentations.

LYONDELLBASELL RECEIVES 2012 INDUSTRIAL ENERGY TECHNOLOGY CONFERENCE AWARD FOR SITE FLARE ASSESSMENTS. Since 2007 LyondellBasell has been engaged in a comprehensive energy efficiency improvement effort that has resulted in 12% reduction in energy (42 trillion Btus/yr). They decided to focus on flaring optimization, since this is a potential energy reduction target that has traditionally received little attention. They developed their own software tool and methodology to standardize the assessment process. The new tool systematically develops the technical basis and a comprehensive business case for gaining support and mobilizing resources for implementation. The standardized report compares key process data to API 521 standards, EPA guidelines, LyondellBasell Engineering standards, and OEM specifications to focus on the areas of opportunity and generates a project list, brief scope of all the necessary modifications, complete with benefits, planning grade cost estimates, simple financial rate of return and site impact on energy and carbon reduction. The benefits mostly lie in FG optimization, steam flow control, purge gas and process off-gas control.

LyondellBasell has applied the Site Flare Assessment methodology to 15 manufacturing sites in the US. Assessment of 39 flare systems has identified opportunities that represent \$6-15 Million per year, depending on the price of natural gas. All sites are in different stages of implementation. At the Houston Refinery, assessment of 5 flare

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systems is complete; all recommendations have been implemented and this has resulted in 500,000 Million Btu/ year documented savings (\$1-3 Million/ Year depending on the price of natural gas). You can download the LyondellBasell presentation on this project at <http://TexasIOF.ces.utexas.edu>

TEXAS IOF UPCOMING EVENTS

- *Steam End-User Workshop, Nov. 13, 2012.* DFW area Go to <http://www.cvent.com/events/57412-steam-end-user-workshop/> to register online or call 817.272.5909 to register by phone.
- *Fundamentals of Compressed Air, Feb. 6, 2013, Waxahachie.* Registration will open Dec. 15.
- *Texas Industrial Energy Management Forum, March 7, 2013.*

Professional development hours are available for participation in all programs.

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