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Creating Value Through Energy Efficiency Assessments

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Abstract

Total has been strongly involved in GHG emissions reduction since several years, initially focusing on flaring reduction: all new projects since 2000 are designed with no continuous flaring and more globally, flaring will be reduced by 50% from 2004 to 2012. Second step of emissions reduction is to focus on combustion: consumptions will exceed wasted energy (flares, vent, losses) in the next years as a result of actions taken to cut by half gas flaring on one hand and evolving characteristics of assets portfolio: mature fields, LNG, extra heavy oils on the other.

As part of the whole picture of Total involvement against climate change, the need to reduce energy consumption, mainly fuel gas, has led Total E&P to set up an energy efficiency action plan for affiliates and new projects.

Energy efficiency assessment methodology developed with a specialized contractor is described, with a focus on 2007 pilots: Anguille field in Gabon (mature oil field under redevelopment with flaring reduction aspect) and Elgin (North Sea gas field under European legislation) in UK. Energy assessments deployment over major Total EP affiliates in 2008 is presented. The paper will show how these assessments aim at drawing a base line, defining and implementing energy efficiency plans in affiliates through listed and ranked efficiency enhancement opportunities, also at defining best practices at corporate level, and thus proposing in the near future quantified objectives of improvement.

Energy efficiency assessment of affiliates not only leads to savings in energy consumptions, and reduction of emissions but also provide business opportunities through better products monetization. And in parallel to improvements on existing operations, a best in class design on new developments will ensure a global improvement of energy use in a near future.