



# The Catalyst Group Resources

(a member of *The Catalyst Group*)

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## **PRESS RELEASE**

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### **Renewable Energy Resources Can Add Both Capacity and Sustainability....**

Recent concern over energy security and supply/demand sustainability have governments and energy companies re-examining both the cost/performance of alternatives and questioning industry, advocates and Trade Associations on the viability of their resources in the short term.

Renewables like hydroelectric, wind, solar, geothermal and biomass, hold considerable promise in the short term, although they require targeted investments to reduce their cost. For example, Europe's Biofuels Directive (2003/30/EC) has already stimulated investments to ensure that 5.75% of road fuels market share is biofuel by 2010. Capital projects are now lining up. The world's largest biodiesel plant at 250,000 mt/yr by Biofuels Corp will start this year! **But what's interesting is that it's spurring technological innovations.**

Neste Oil, in Finland, has gone public on its plans to build its own 170,000 mt/yr plant located at its Porvoo refinery. It will invest E100 MIL in its own "next generation" technology, which uses isomerization and selective hydrogenation (rather than esterification) to produce a product cetane of 99 and low cloud point ideal for the Scandinavian market. It provides improved feedstock economics (flexibility), amazing quality and will command a 5 eurocent premium. **Super Biodiesel!**

The Catalyst Group Resources' (TCGR) study, entitled, "Alternative Energy and Fuels Technology: Emerging Catalytic Processes to Improve Efficiencies and Yield", has been initiated by an industrial consortium to identify new technologies and investment opportunities for our international clients that may impact their portfolio analyses over the next five (5) to ten (10) years. Already, a high interest has been demonstrated by the international energy industry, with key players subscribing to the study. In addition, the US government has also expressed keen interest and has been actively engaged in recommending world recognized contributing authors in the relevant chapters.

Our comprehensive report is very timely, given the huge potential and unique opportunities in this rapidly expanding field. This milestone study will set the stage for an ongoing dialog on which new technologies to invest in over the next twenty (20) years. The Catalyst Group (TCG) and The Catalyst Group Resources (TCGR), as the leading commercial/technical consultancy to the catalytic process industries, with a significant history in the petroleum, natural gas, GTL and DME fields, are uniquely positioned to understand, benchmark and strategically assess leading technology development in the energy field.

The study will be available in printed format as well as electronically (as a PDF file), allowing unlimited use/distribution of the report on a site-license basis. For more information, see our website at <http://www.catalystgrp.com/AlternativeEnergyMultiStudy.html> or contact Jeanne Drahos ([jmd@catalystgrp.com](mailto:jmd@catalystgrp.com)) or Clyde Payn ([cfp@catalystgrp.com](mailto:cfp@catalystgrp.com)) at 215-628-4447.

**These topics will also be addressed at CatCon2005 scheduled for October 25 - 26, 2005 – Wyndham Franklin Plaza, Philadelphia, PA .**

*The Catalyst Group Resources (TCGR), a member of The Catalyst Group, is dedicated to monitoring and analyzing technical and commercial developments in catalysis as they apply to the global refining, petrochemical, fine/specialty chemical, pharmaceutical, polymer/elastomer and environmental industries. The Catalyst Group Resources' assessment is based on information obtained from the public domain as well as internal sources and industry interviews. TCGR's analysis will report factual information, as well as hypotheses/interpretations based on this information, in order to derive a reasonable set of expectations. Factors could cause actual results to differ from our forward-looking statements and The Catalyst Group Resources undertakes no obligation to publicly revise these forward-looking statements to reflect events or circumstances after the date hereof.*