

## New Technology Valuations: The Values of Technologies Under Development

Companies across the spectrum of the chemical and energy industries are struggling to adapt their research and investment plans to maximize the future value-added for their shareholders. In light of recent economic and industry trends, value-oriented R&D remains one of the few ways to add value over the long term. Nexant is launching a new multi-client study on New Technology Valuation. This study provides a critical tool to help firms set their R&D priorities, by analyzing technologies that are not yet commercialized and providing the following:

- A survey of a significant sample of new technologies that are now in R&D stages in the global industry, but have not yet achieved commercial or proven status
- A screening of these technologies, resulting in 20 of them being studied in detail in the report:
- The detailed study of 20 technologies that pass the screening review:
  - Assessment of market potential
  - Estimate of likely investment cost and costs of production
  - A valuation analysis of the prospective net present value of these technologies, performed on a consistent basis to facilitate reasonable comparisons
  - An explanation of the valuation approach and methodology employed in the study

Nexant will analyze these new technologies by employing a consistent approach and using only information that is the public domain or developed by Nexant from non-confidential information. This analysis and the conclusions will be a valuable source of reference and comparisons for companies in the chemical and energy processing industries. It will provide benchmarks that many companies may use vis-à-vis their proprietary technology and opportunities.

The technologies that will be screened in the study include interesting prospective technologies in the following technical and feedstock/product categories:

### Chemical/Petrochemical:

- Based on or to produce: Methane, other alkanes, methanol, ethylene, propylene, butadiene, aromatics, polymers, organic acids, octene-1
- Isocyanates: TDI via non-phosgene routes, MDI via a carbonylation route

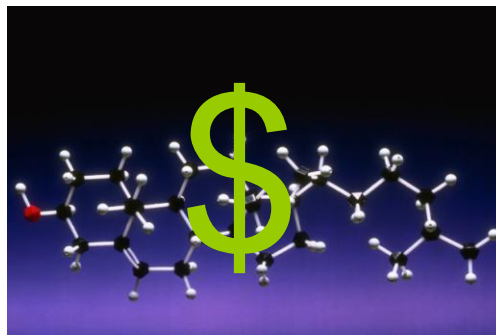
### Biotech:

- Fuels, such as via biomass to liquids (BTL) and genetically designed oil seeds
- Chemicals, such as acetic acid, butanediol, propylene glycol, polyols, succinic acid and MTHF, polyaldehyde, polylactic acid

### Fuels and Other:

- Methane to Fuels (MTF), and innovative GTL technologies, such as CompactGTL compact design and Velocys' microchannel technology
- Tar Sands upgrading or conversion technologies
- Methane storage technologies, such as via metal-organic framework or nanotechnology
- Anaerobic Pump technology for conversion of wet biomass to methane

This report was completed in December 2009 and is available at US\$35,000. (thirty-five thousand U.S. dollars).



## REPORT OVERVIEW

### Subjects Addressed:

- Screening of technologies to select 20 technologies that are most promising for further analysis, based on factors such as
  - Market prospects for products
  - Analyze information that is available in the public domain about prospective new technologies
- Using a Licensing business model to estimate the net present value of the selected technologies
- Nexant will screen an extensive technology list and select 20 technologies from the various segments identified in the prospectus.
- Subscribers may nominate a technology to be included in the study for study and valuation

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