

PERP Program – New Report Alert

May 2005

Nexant's *ChemSystems* Process Evaluation/Research Planning program has published a new report, *Coal Gasification Technologies (03/04S11)*.

Background

Gasification is a high-temperature process usually conducted at elevated pressure that converts any carbon-containing material into a mixture composed primarily of carbon monoxide and hydrogen. Since this gas is often used for the synthesis of chemicals or synthetic hydrocarbon fuels, the gas is referred to as synthesis gas or syngas. The syngas can also be used as a fuel to generate electricity or steam and as a source of hydrogen. Gasification adds value to low- or negative-value feedstocks by converting them to marketable products.

Typical feedstocks to gasification are coal, petroleum-based materials such as crude oil, coke, and high-sulfur residues, gases, and various waste materials. Dry or slurried feedstock is reacted in the gasifier with steam and oxygen in a reducing (oxygen-starved) atmosphere at a high temperature and (usually) high pressure. The resulting syngas typically contains about 85 percent of combined carbon monoxide and hydrogen, with the balance being largely carbon dioxide and methane.

The high temperature in the gasifier converts the inorganic materials in the feedstock, such as ash and metals, into a vitrified material resembling coarse sand in texture and generally referred to as slag. This inert slag has a variety of uses in the construction and building industries.

The raw syngas is treated using proven commercial technologies to remove trace elements or other impurities for recovery or recycle to the gasifier. Sulfur can be recovered as marketable elemental sulfur or sulfuric acid.

If the syngas is to be used to produce electricity, it is typically used as fuel in an integrated gasification combined cycle (IGCC) power generation configuration. The combined cycle system utilizes a high-efficiency gas turbine to burn the clean syngas, with exhaust heat recovered to generate steam for use in a high-efficiency steam turbine. Both the gas turbine and the steam turbine drive electric power generators. A wide range of products, such as fuels, chemicals, fertilizers, and industrial gases, can be produced in lieu of power or in conjunction with power.

Figure 1 depicts a simplified flow chart illustrating alternative utilization options for coal-derived syngas. Various gasification and environmental cleanup technologies convert coal (or other carbon-based feedstocks), oxidant, and water to syngas for further conversion into marketable products: electricity, fuels, chemicals, steam, hydrogen, and others.

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