

## 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.

# Perp Report Coal Gasification Technologies

**R Barnett**



## **Perp Report Coal Gasification Technologies:**

*Methanol: The Basic Chemical and Energy Feedstock of the Future* Martin Bertau, Heribert Offermanns, Ludolf Plass, Friedrich Schmidt, Hans-Jürgen Wernicke, 2014-02-18 Methanol The Chemical and Energy Feedstock of the Future offers a visionary yet unbiased view of methanol technology Based on the groundbreaking 1986 publication Methanol by Friedrich Asinger this book includes contributions by more than 40 experts from industry and academia The authors and editors provide a comprehensive exposition of methanol chemistry and technology which is useful for a wide variety of scientists working in chemistry and energy related industries as well as academic researchers and even decision makers and organisations concerned with the future of chemical and energy feedstocks *Handbook of Industrial Chemistry and Biotechnology* James A. Kent, Tilak V. Bommaraju, Scott D. Barnicki, 2017-08-01 This widely respected and frequently consulted reference work provides a wealth of information and guidance on industrial chemistry and biotechnology Industries covered span the spectrum from salt and soda ash to advanced dyes chemistry the nuclear industry the rapidly evolving biotechnology industry and most recently electrochemical energy storage devices and fuel cell science and technology Other topics of surpassing interest to the world at large are covered in chapters on fertilizers and food production pesticide manufacture and use and the principles of sustainable chemical practice referred to as green chemistry Finally considerable space and attention in the Handbook are devoted to the subjects of safety and emergency preparedness It is worth noting that virtually all of the chapters are written by individuals who are embedded in the industries whereof they write so knowledgeably The Science and Technology of Coal and Coal Utilization Bernard Cooper, 2013-11-11 Filling the need for new and improved energy sources is an area where societal effects of science and technology will surely increase The editors and authors have attempted in this volume to present the most current work on the science and technology of coal and coal utilization Serious disagreement exists on several key issues such as carbon dioxide release and acid rain At the same time however coal is the world's most abundant fossil fuel and will have to be used to supply the world's energy needs for the next several decades The 1979 National Research Council Report Energy in Transition 1985 2010 has estimated that the United States alone may go from a 1979 coal consumption of 14 QUADS per annum approximately 750 million tons per year to approximately 40 50 QUADS per annum approximately 2 billion tons per year by the year 2010 If this scale of coal utilization is to become a reality a significant level of research and development will be necessary to establish advanced process technologies and to improve related areas such as materials and instrumentation The editors hope that this volume will allow a technically educated person to become aware of the several aspects of coal utilization from characterization of coal itself to the processes of coal utilization B R Cooper and W A Ellingson March 1983 vii Contents 1 THE SCIENCE AND TECHNOLOGY OF COAL AND COAL UTILIZATION 1 Bernard R Cooper and William A Ellingson 2 COAL CHARACTERIZATION **Report summaries** United States. Environmental Protection Agency, 1983 **Annual Report -**

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**Appropriations for 1993: Public witnesses for energy programs** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies,1992 *Department of the Interior and Related Agencies Appropriations for 1993* United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies,1992 **Synthetic Fuels** Estados Unidos. Congress. House. Committee on Science and Technology,1980 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1983 **The Energy Index** ,1988 **Development of High-temperature Turbine Subsystem**

**Technology to a "technology Readiness Status", Phase I** A. Caruvana,1978 The primary objective of the Phase I ERDA High Temperature Turbine Technology HTTT Program was to provide a Program and System Definition of the three phase program which would culminate in the testing of a Technology Readiness Vehicle TRV at the end of a six year period The TRV is designed for use in a combined cycle using coal derived fuels at a firing temperature of 2600 F growth capability to 3000 F is projected The Phase I results reported are based on a 2600 F gas turbine burning coal derived fuels The following major areas are covered overall plant design descriptions systems design descriptions turbine subsystem design combustor design phase II proposed program and phase III proposed program Details regarding final results of each of these areas are presented It is concluded that the water cooled gas turbine in combined cycle has been shown to be capable of extremely attractive levels of performance both in terms of efficiency and specific output Coupled with the ability to tolerate a wide range of coal derived fuels with minimum fuel treatment an extremely attractive system is presented for the generation of electric power Future technology development of the high firing temperature water cooled gas turbine is expected to result in the commercial introduction of this concept in combined cycles by the late 1980 s or early 1990 s

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