

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

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Table of Contents Perp Report Coal Gasification Technologies

1. Understanding the eBook Perp Report Coal Gasification Technologies
 - The Rise of Digital Reading Perp Report Coal Gasification Technologies
 - Advantages of eBooks Over Traditional Books
2. Identifying Perp Report Coal Gasification Technologies
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Perp Report Coal Gasification Technologies
 - User-Friendly Interface
4. Exploring eBook Recommendations from Perp Report Coal Gasification Technologies
 - Personalized Recommendations
 - Perp Report Coal Gasification Technologies User Reviews and Ratings
 - Perp Report Coal Gasification Technologies and Bestseller Lists
5. Accessing Perp Report Coal Gasification Technologies Free and Paid eBooks
 - Perp Report Coal Gasification Technologies Public Domain eBooks
 - Perp Report Coal Gasification Technologies eBook Subscription Services
 - Perp Report Coal Gasification Technologies Budget-Friendly Options
6. Navigating Perp Report Coal Gasification Technologies eBook Formats

- ePub, PDF, MOBI, and More
 - Perp Report Coal Gasification Technologies Compatibility with Devices
 - Perp Report Coal Gasification Technologies Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Perp Report Coal Gasification Technologies
 - Highlighting and Note-Taking Perp Report Coal Gasification Technologies
 - Interactive Elements Perp Report Coal Gasification Technologies
 8. Staying Engaged with Perp Report Coal Gasification Technologies
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Perp Report Coal Gasification Technologies
 9. Balancing eBooks and Physical Books Perp Report Coal Gasification Technologies
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Perp Report Coal Gasification Technologies
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Perp Report Coal Gasification Technologies
 - Setting Reading Goals Perp Report Coal Gasification Technologies
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Perp Report Coal Gasification Technologies
 - Fact-Checking eBook Content of Perp Report Coal Gasification Technologies
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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