



PROCESS ECONOMICS PROGRAM

SRI INTERNATIONAL

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Abstract

Process Economics Program Report No. 154

COAL GASIFICATION

(January 1983)

This report reviews the current status of coal gasification technology and presents cost estimates for the production of syngas ($H_2 + CO$) by the following processes and feedstocks:

<u>Process</u>	<u>Gasifier Type</u>	<u>Feedstock</u>
Texaco	Entrained-flow	Illinois No. 6 bituminous coal
HT (high temperature) Winkler	Fluidized-bed	Texas lignite

Cost estimates are for syngas at five H_2 -to- CO mol ratios, namely, as-gasified, 2, 5, 10, and industrial grade H_2 . Product values are correlated in graphs on the basis of plant capacity and H_2 -to- CO ratio.

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For detailed marketing data and information, the reader is referred to one of the SRI programs specializing in marketing research. The CHEMICAL ECONOMICS HANDBOOK Program covers most major chemicals and chemical products produced in the United States and the WORLD PETROCHEMICALS Program covers major hydrocarbons and their derivatives on a worldwide basis. In addition, the SRI DIRECTORY OF CHEMICAL PRODUCERS services provide detailed lists of chemical producers by company, product, and plant for the United States and Western Europe.

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