Evolution and Vision of Integrated Gasification Combined Cycle and Co-production Systems in China

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The technology of coal-based co-production is especially important to China. It is a main direction of the development of clean coal technology. The present paper analyzes the ideas and plans for developing coal-based co-production of world’s countries and points out several main stages of its development in China. The progress of developing key-technologies and system integration of co-production during the Tenth Five-Year Plan is introduced. Emphasis is put on the first engineering demonstration of coal-based co-production in China, which produces electric power and methanol. The general idea of developing the key-technologies and system demonstration of coal-based co-production during the Eleventh Five-Year Plan is explained. The vision in 2020 is exhibited.