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Integrated gas turbine and thermal power station - in circuit with a coal gasifier and methanol synthesiser

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A power station with a gas turbine section and a thermal section is integrated with a coal gasification reactor which is supplied with oxygen from an air splitting plant and is connected to a methanol synthesis section. An iron melt gasifier receives oxygen from the air splitting plant and the residual coke from the gasification reactor. The gas from the latter is passed to the methanol synthesiser which supplies part of the fuel for the combustion chamber of a gas turbine.

ADVANTAGE - Such an integrated power station can be erected at a lower capital cost than earlier suggestions. It produces flue gases free from sulphur. (16pp Dwg.No.0/1)
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