

## 2 - 4 Survey of Coal Liquefaction Technology toward Commercialization

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Since the oil shock in 1973, as a part of the Agency of Industrial Science and Technology's Sunshine Project, many universities, national laboratories, private sectors, as well as NEDO have been engaged in coal liquefaction technology development. In fiscal 2000, the operation of the 150 t/d pilot plant was completed, and the construction of a NEDOL process demonstration plant in China is being examined enthusiastically at present.

This paper describes a survey of coal liquefaction regarding its social applicability by making the most of CCUJ's characteristics and technological potentials.

In order to commercialize coal liquefaction technology, it is necessary to steadily advance stage by stage as shown below, which requires a long time and huge cost.

AC BSU PDU PP DP CP

The role of the DP lies in the demonstration of commercialization, including the scale-up from 150 tons to several thousand tons per day and the optimization of coal oil products. Therefore, the DP can be regarded as the pioneer plant before commercialization, i.e. the indispensable stage previous to reaching industrialized facilities.

Nowadays, commercialization of coal liquefaction is increasing its reality in China year by year as can be seen in China's tenth five year plan.

For Japan, the incentive to develop coal liquefaction technology has changed from obtaining the substitute fuel for oil to possessing the bargaining power to secure energy resources, because of oil price declining after the oil crisis. Japan can have its technology proven when the DP operation succeeds. This will be considered the merit of promoting the DP in China.

