

A study on the Strategy of Energy Technology Development Considering Energy Environments

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Energy technology is closely related with energy environments such as high oil prices of finite fossil energy resources, UNFCCC, and hydrogen economy. Specifically, Dubai crude oil prices surpass \$68 a barrel reaching new record based on August 2006. The upward trend in the high oil prices can't be reversed in the short-term and is expected to be continued for the present.

Korea is the third oil consuming nation in the world, which imported 49.6 billion US dollar in 2005. And also 97% of the total energy consumed is imported. Korean economy is highly affected by the change of crude oil prices. Energy technology development is a key role to break through the energy environments.

In this study, we suggest the strategy of energy technology development divided into two sectors, which are composed of energy technologies in the aspects of supply and change in this study. Energy technology in the aspects of energy supply sector is focused on the coal utilization technology and new and renewable technology. On the other hand, energy technology of energy demand sector is concentrated on energy efficiency improvement technology.