

## Energy Technology Perspectives 2006 and Implications

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IEA announced the energy technology perspectives 2006(ETP 2006) in June 2006, which is a response to the Group of Eight(G8) leaders at their Gleneagless Summit in July 2005. ETP 2006 suggests the alternatives scenarios and strategies aimed at a clean, clever and competitive energy technology development with a sustainable energy future.

In the absence of new policies, global energy demand and CO<sub>2</sub> emissions will grow double by 2050. CO<sub>2</sub> emissions will rise 137% from 24.5 Gt in 2003 to 58 Gt in 2050. ETP 2006 proposed 6 scenarios, which are composed of 5 Accelerated Technology Scenarios(ACTs) and one TECH Plus scenario. 5 ACTs are MAP, Low Nuclear, Low Renewable, No CCS, and Low Efficiency. TECH Plus scenario assumes more optimistic assumption on certain key technologies.

In this study, we analyze ETP 2006 and suggest the measures for ETP in case of Korea. We shall consider our R&D budget allocation and plans related to the development of energy technologies with the analysis of SWOT and benefit cost analysis for the well focused R&D in energy technology sector.