財團法人中技社 CTCI Foundation

Notes: The opinions and suggestions below do not represent the view of CTCI Foundation as CTCI Foundation is merely providing a platform for scholarly exchanges. Please refer to 「CTCI 2007 Environment and Energy International Conference」for more information.

Suggestions to Government based on the 「Applications of Coal and Energy Policies」

CTCI Foundation has persistently studied the issue of "the Applications of Coal and Energy Policies". On January 16th, 2007, CTCI invited Resources for the Future (RFF) of U.S., Institute of Coal Chemistry Chinese Academy of Science in High-tech Research to join with domestic energy experts to discuss current energy developments, exchange remarks regarding national energy strategies, and lecture based on clean-coal technologies in the 「Environment and Energy International Conference」. Suggestions are listed below:

1. To regulate emissions of mercury

In 1997, a research finding on mercury, which promulgated by the EPA of U.S., indicated 33% of emissions of mercury were from power plants. Therefore, the emission of mercury from coal combustion had been included in supervision by U.S. since March 2005. Taiwan for example, has not yet regulated mercury emission. Thus, a suggestion to Taiwan government would be to include consideration of mercury pollution when introducing and promoting clean coal technologies.

2. To strengthen international cooperation in introducing superior clean-coal technologies

Advanced countries had long invested in clean-coal technology researches and developments, but for Taiwan, direct introduction of advanced technologies or cooperation with sophisticated institutions would be the most efficient and valid approaches. As China is our major coal-importing country and is fully experienced in clean-coal technology, it is recommended to work with China regarding this topic.

3. Comprehensive assessments and diversify coordinating tasks before introducing foreign clean-coal technologies

Regarding the introduction of foreign clean-coal technologies, China initially adopted independent assessments with introduction and development, which lacked an overall integration and wasted human and financial resources. Overall, the obstacles occurred with parts of the application led to ineffective results. Thus, it is suggested to the Taiwan Government that introduction of new technologies should focus on overall integration and take local circumstances into decision making, process, then adopt the most appropriate and beneficial technology.

4. To involve participation form industries in R&D or introduction stage

Currently, the promotion of foreign clean-coal technologies in Taiwan is often introduced by academic institutions for studying R&D proposal in its early stages. Therefore, to avoid industry technology lag and to improve effectiveness of practice results, it is suggested to involve industries from the beginning of introduction stage for the purpose of domestic clean-coal technology practice and development.