Assessment model for selecting the strategic R&D programs of energy technology development:
analytic network process

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KIER's R&D funds have been increasing quantitatively. On the other hands, the R&D outcomes are not excellent comparing with the advanced research institutes of developed countries. In the phase of R&D planning, KIER has been planning to derive the strategic big sized R&D programs for well focused R&D and excellent outcomes.

In this study, we establish the network modeled criteria to assess the strategic R&D programs with the approach of analytic network process (ANP). ANP is the extended model of analytic hierarchy process (AHP) and is a powerful multiple criteria decision making (MCDM) method to evaluate decision making problems in the real world. We allocate the relative weights of criteria in this paper. It can be used for selecting strategic R&D programs as fundamental data.