

Analytic network process for calculating the relative weight of energy technology development contribution

의성곤*, Gento Mogi¹, 홍성준²

한국에너지기술연구원; ¹Department of Technology Management for Innovation (TMI), School of Engineering, The University of Tokyo;
²한국에너지기술연구원 정책연구센터
(sklee@kier.re.kr*)

The value assessment of technology is one of essential part in the phase of R&D planning. Researchers are requested to execute the value assessment as they suggest R&D proposal in the sector of energy technology development. The value assessment of energy technology development is executed by KIBO technology fund, which is the professional organization for assess the values of technology. KIBO technology fund's method doesn't consider the relative weight of technology development contribution by the scientific procedure.

In this paper, we execute the value assessment of energy technology development by the analytic network process (ANP), which is the extended model of the analytic hierarchy process (AHP) and one of multiple criteria decision making (MCDM) methods. We suggest the way to calculate the relative weight of technology development contribution in the sector of energy technology R&D with the scientific procedure of ANP.