제지제조공정에서 녹색공급망을 통한 청정생산

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In green supply chains, cleaner production can achieve significant reduction in environment impact, in terms of reduced waste and emission generation and in terms of conservation of materials, energy and water, while simultaneously reducing operating costs. It is important to formulate a model for developing process changes at paper making industries with cleaner production activities. We applied the analytic hierarchy process (AHP) in multiple criteria decision making (MCDM) and interviewed the relevant experts and directors. The 18 sub-criteria are identified and grouped into four categories: (1) input material change; (2) process control; (3) equipment modification; (4) technology change. The results show that input material changes and using better and standard raw material were given higher priority between criteria and sub criteria at paper making in Iran, respectively. Acknowledgement) This work was supported by the Korea Science and Engineering Foundation (KOSEF) grant funded by the Korea government (MEST) (KRF-2009-0076129) and funded by Seoul R&BD Program (CS070160).