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Cleaner Energy Planning, Management and Technologies:

Perspectives of Supply-Demand Side and End-of-pipe

Management

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Abstract

Energy is needed in all sectors: industrial, domestic, commercial, transportation, power generation. Fossil fuel has been the main source of energy since decades. Due to rising greenhouse gases (GHG) emissions, the energy mix in many countries are shifting towards alternative energy sources, such as renewable energy and nuclear. At the same time, energy demands should also be managed and minimised to curb the rising GHG. Transitioning towards cleaner energy supply may also take time due to economic, political, technology readiness and public acceptance reason. A faster solution is to sequester CO₂ especially through CO₂ capture, utilisation and storage technologies. This paper presents an overview of the Journal of Cleaner Production Special Volume for the 18th conference “Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction (PRES 2015)”. The paper discussed issues, methods and solutions to achieve cleaner energy. The review has been written from the perspective of the supply side management, demand side management or end-of pipe management. The content of the Special Volume also includes

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