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Improving Energy Efficiency through Industrial Symbiosis: A Conceptual Framework of Energy Management in Energy-Intensive Industries

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Abstract : Rising energy prices have drawn a focus to global energy issues, and the severe pollution that has resulted from energy-intensive industrial sectors has yet to be addressed. By combining Energy Efficiency with Industrial Symbiosis, the practices of efficient energy utilization and improvement can be not only enriched at the factory level but also upgraded into “within and/or between firm level”. The academic contribution of this paper provides a conceptual framework of energy management through IS. The management of waste energy within/between firms can contribute to the reduction of energy consumption and provides a solution to the environmental issues.

Keywords : energy efficiency, energy management, industrial symbiosis, energy-intensive industry
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