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Vendor-managed inventory with consignment stock agreement for single vendor–single buyer under the emission-trading scheme






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Abstract

This paper presents a joint economic lot size (JELS) model for coordinated inventory replenishment decisions under the vendor-managed inventory (VMI) with consignment stock (CS) agreement and an emission-trading scheme. The paper assumes a single product that flows along a two-level supply chain system, with a single vendor and a

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agreement, which is capable of reducing the traditional inventory holding costs and, for some values of given parameters, the GHG emissions tax and penalty costs.

Keywords: JELS consignment stock emissions tax emissions penalty variable production rate

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