Abstract

Optimization of supplier selection is one of the company’s strategies to improve profit and to determine the strategy for distributing CNG to customers. Supplier selection is influenced by quality and quantity of the suppliers. These are required some criteria as follow, CNG price, CNG quality, on-time delivery, company’s subjective factor and distribution cost. Each criterion will be weighted to get index criteria. Based on the method, it is selected two suppliers to support the distribution, PT. CNG plant, Gresik with 0.5 MMSCFD and PT. CNG plant, Pasuruan with 0.45 MMSCFD. After selecting the supplier, the next step is arranging the distribution scheduling using Vendor-Managed Inventory (VMI). By this method, the company has a role to organize the distribution scheduling. Two scenarios for two different scheduling models are simulated, the first is PT. Mini CNG plant could distribute CNG, and the second one is the company needs support. By given different models and scenarios, it was found that the result of VMI method is more optimal in cost and CNG capacity than repeating weekly schedule.

Key words: supplier selection, scheduling, vendor-managed inventory
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