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ONLINE ISSN: 1881-1760 PRINT ISSN: 1880-3717

Journal of the Japan Society of Naval Architects and Ocean Engineers

Vol. 4 (2006) pp.1-8

[PDF (615K)] [References]

Life Cycle Assessment of Oil Sorbent

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(Received May 10, 2006)

Summary: This paper describes the life cycle assessment of sorbent (oil absorbent) in estimation of CO₂ emissions produced throughout the life cycle for each scenario of sorbent; Sugi Bark Product and Anaerobic/Aerobic Biodegradation Disposal (Scenario A/B), Sugi Bark Product and Incineration Disposal (Scenario C) and Polypropylene Product and Incineration Disposal (Scenario D). CO₂ emission is the highest in disposal stage in all scenarios. In comparison of LCA of SBS (Sugi Bark Sorbent; scenario A, B, C), CO₂ emission is lower in biodegradation disposal than in incineration disposal. Biodegradation disposal has more advantage in CO₂ emission than incineration disposal, when the oil content of recovered substance is lower. The ratio of total CO₂ emission of SBS and Polypropylene is 1:3 at most; the replacement of Polypropylene sorbent with SBS can reduce 8.3t-CO₂ emission in recovering 1t of Bunker C oil.

[PDF (615K)] [References]

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To cite this article:

Masaki Saito, Suguru Ogura, Hiroyuki Kimoto and Katashi Nagamizu: Life Cycle Assessment of Oil Sorbent, Journal of the Japan Society of Naval Architects and Ocean Engineers, (2006), Vol. 4, pp.1-8.

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