ABSTRACT

FSRU (Floating Storage Regasification Unit) is a container ship LNG regasification unit that had to change the gas from the liquid phase into the gas again, and then distributed using pipes gas to consumers, gasification process using sea water as the main media and propane heaters as the heating medium. Nowadays, FSRU in Indonesia recently operated in the Gulf of Jakarta precisely in Bekasi West Java, the results of the FSRU regasification is distributed to two power plants are combined cycle gas PLN Muara Karang and Tanjung Priok PLTGU. Currently existing regasification terminal in Jakarta Bay is still not functioning optimally due to an installed capacity of 500 MMSCFD newly absorbed by 200 MMSCFD, while the rest of 300 MMSCFD other can still be used as constrained infrastructure problems. With the new technology uses gas transportation media or Marine CNG marine research will determine the number and capacity of CNG Carrier optimal thus providing an investment that has a high economic value as well as the number of boat trips minimum so that reduced operational costs, determination of the daughter station is done by HSD comparing operating costs each month with transportation costs and the cost of conversion of diesel to power plant investments.

Keywords: CNG Carrier, Marine CNG, Daughter Station, PLTD, PLTG
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