



# Port louis energy storage for renewable energy

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For other yard equipment, such as RS, SC, and LT, hybrid diesel-electric engine systems have been integrated. Studies have shown that the fuel efficiency of hybrid SC has increased by 27.1%, and carbon emissions have been reduced by more than 66% [28]. With the development of electrical engineering technology, especially energy storage technology, fully electric RS, SC, and LT will soon become a reality, helping to promote green and low-carbon development in ports [29].

Currently, the maritime transportation industry heavily relies on fossil fuels, especially heavy oil, as a source of power. Substituting low-carbon or even zero-carbon fuels for heavy oil is an important way to achieve decarbonization in the shipping industry. Liquefied natural gas, biomass fuels, and hydrogen energy are currently the most promising clean fuels for shipping.

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