Government subsidy for power container in

What is a government subsidy?
The government subsidy function implements a corresponding subsidy or penalty strategyaccording to the scale of port shore power construction and ship shore power cost. When the cost of port shore power construction or container ship power consumption is higher than a given value,the government will provide a specific cost subsidy.

Do government subsidies affect port shore power construction and ship shore power use?
For shipping companies, energy such as low-sulfur fuels and liquefied natural gas has become an essential supplementary means to meet emission reduction requirements. This research considers the impact of government subsidies on port shore power construction and ship shore power use.

Why does a port need a government subsidy?
Due to the absence of government subsidy,the game between the government and the port does not existin this case. Therefore,the port can independently determine the investment scale of shore power facilities and the price of shore power service to maximize its own net profit.

How does a government subsidy affect a shipping company's equilibria?
Specifically,when T 1 <T <T 1s,the two shipping companies reach multiple equilibria where only one uses shore power if there is no government subsidy; moreover,the emergence of a government subsidy enables them to reach an equilibrium where both use shore power.

How can government subsidies help the construction of green ports?
In addition,through government subsidies,effectively alleviating the operational pressure of port companies and shipping companiescan stimulate port companies and shipping companies to participate in the construction of green ports .

Which subsidy strategies are used in the implementation of shore power?
Two common subsidy strategies are considered and compared,namely,subsidy for the investment of shore power facilities and subsidy for the usage of shore power. In addition,the effects of port operation schemes (i.e.,private operation scheme and public operation scheme) on the adoption of shore power and system cost are also explored.

Shore power is an important green technology used by ports to reduce carbon emissions. This paper investigates how to design subsidy strategy for promoting the ...

For subsidy policy, in China, the Shanghai Municipal Government and the Ningbo Municipal Government released subsidy policies in 2022 and 2023, respectively, to support ...

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By lowering the cost of using shore power, increased government subsidies provide shipping companies with greater incentives to use shore power regardless of their competitors" ...

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Government ministers and port authorities from around the world signed a shore power declaration at the One Ocean Summit on February 10th, 2022. Joined by the European Investment Bank, the stakeholders agreed to ...

Despite these initiatives, both ports and shipping companies exhibit a low willingness to use shore power, resulting in substantial resource waste. Existing multi-party game studies on shore power simulations mostly ...

Abstract Government subsidy is recognized as a promising measure to promote the application of shore power technology. In this paper, two widely adopted subsidy strategies, ...

This study optimises port infrastructure investment and shore-power subsidies considering the congestion at the bottlenecks and CO2 emission reduction targets in inland ...

The collection and distribution network of ports is the main cause of carbon emissions. The carbon peak is a basic policy in China, and the subsidy policy is one of the ...

Request PDF | On Feb 1, 2024, Changhong Luo and others published Subsidy, tax or green awareness: Government policy selection for promoting initial shore power usage and ...

power. However, while installation subsidies may promote the installation of SPI in ports, resulting in a reduction in ship emissions, utilization subsidies may attract more ship visits, which may ...

Because the total subsidy cost had a significant impact on the carbon reduction of the Guangzhou Port container collection and distribution network under different subsidy ...

Finally, we use numerical simulations to study the effects of government subsidies and supply chain contracts on decisions to use shore power to reduce emissions during port ...

Second, government-led exploration is necessary after upgrading the emission reduction equipment for ports and shipping companies. The subsidy of ports and shipping ...

Encouraging shipping companies to use shore power has become an important issue in green port

construction. This paper builds a Nash game between two shipping companies regarding ...

Simulations are conducted in Matlab to explore the evolution of strategic choices for promoting shore power and evaluate the impact of various factors on ships" shore power choices.

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