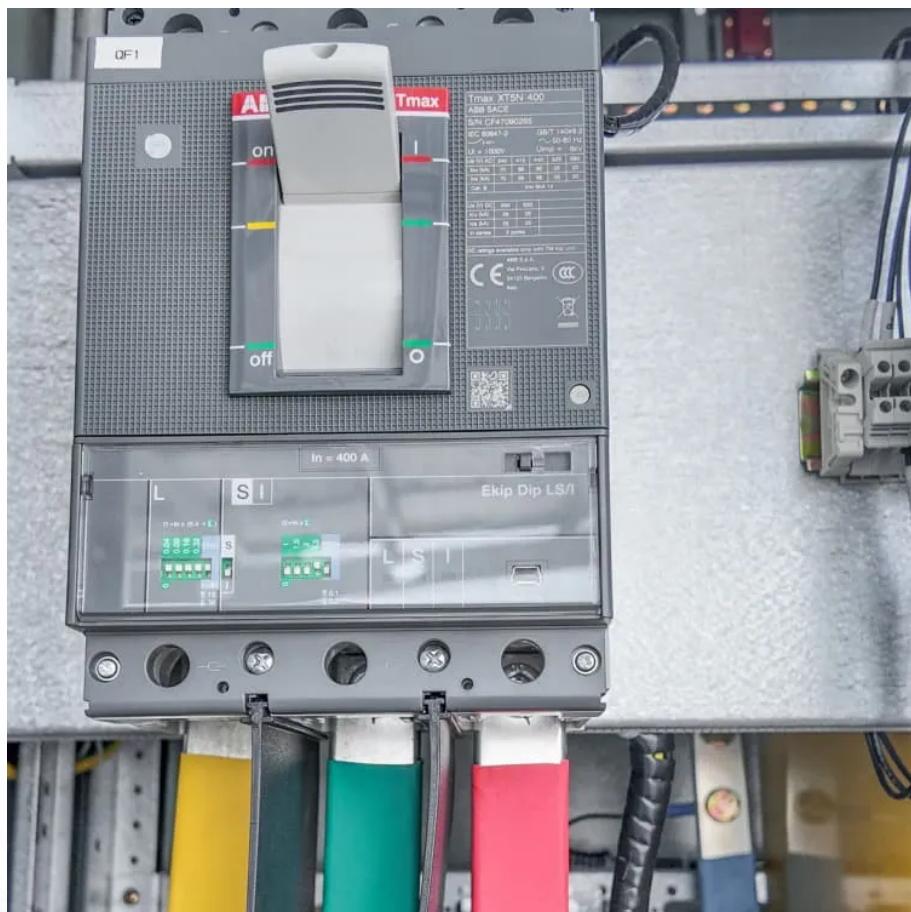




BUHLE POWER

Container network base station planning





Overview

What is the LNG bunkering station deployment problem?

In this paper, we focus on the LNG bunkering station deployment problem, which identifies the locations of the stations to be built. A large-scale case study of China's container shipping network was conducted. The problem scale of this case paper exceeds those in previous academic studies.

What is a low-altitude network base station planning model?

To address these challenges, we propose a novel low-altitude network base station planning model based on the Proximal Policy Optimization (PPO) algorithm. Our approach involves calculating the low-altitude coverage capabilities of different base station types using ray tracing techniques.

How to reduce the cost of LNG bunkering station construction?

For the government, two measures can be adopted: (i) giving subsidies to ship operators for consuming LNG as marine fuel, and (ii) reducing the bunkering station construction costs by production optimization and efficiency improvement.

What is the optimal bunkering method at a port?

The objective of this study is to determine the optimal bunkering method at a port using an integer linear programming (ILP) model considering three kinds of costs: fixed, variable, and extra. To find the optimal bunkering method, the three methods and their related constraints are modeled into the ILP model.



Container network base station planning



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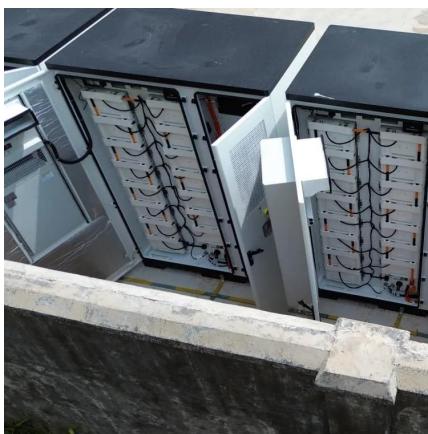


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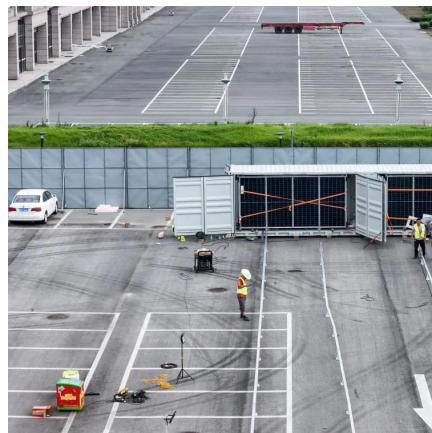
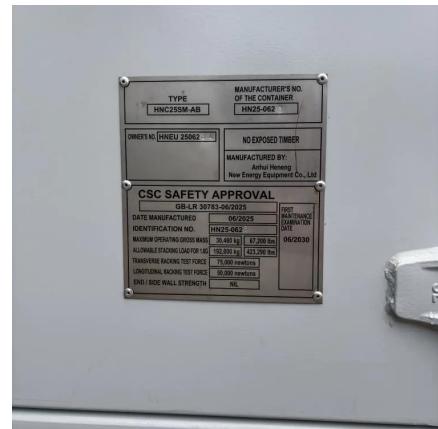


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