

Abstract

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The Arctic Shipping Era: Challenges and Responses of Busan Port

Rapid Arctic sea ice melting caused by global warming is making the opening of the Northern Sea Route an unavoidable reality. For the Busan Port, this shift represents both a formidable challenge and a valuable opportunity. To seize the moment, the port needs to evolve beyond a traditional cargo-handling facility by developing a full life-cycle service system that integrates vessel entry, cargo handling and storage, refueling, repair, ship supplies, and manpower support. With such comprehensive readiness, the Busan Port will be well positioned to reinforce its status as a leading global hub of maritime logistics in the era of the Northern Sea Route.