

عنوان مقاله:

A Review of Carbon Footprint Reduction Measures in Seaports

محل انتشار:

نهمین کنفرانس بین المللی عمران، معماری و مدیریت شهری (سال: 1401)

تعداد صفحات اصل مقاله: 12

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خلاصه مقاله:

According to Objective ۱۳ of sustainable development goals (SDGs) about climate change [۱], addressing world climate change reduction actions is an essential issue. Likewise, the critical leading cause of climate change is greenhouse gas (GHG) emission; and more than ۹۰% of GHG is carbon emission [۲]. In this study, carbon footprint reduction measures in seaports are to be reviewed. A recent health board study shows that emissions from seaports and ships lead to about ۱۹,۰۰۰ annual lung cancer cases, while approximately ۶۰,۰۰۰ die every year from conditions caused by pollutants [۳]. Carbon emissions from ships have increased gradually over time. They are estimated at circa ۲.۷% of total CO₂ emissions globally, and marine activities in seaports account for circa ۳% of total carbon emissions worldwide. [۴] [Based on the United Nations' annual review of maritime transport, the annual CO₂ emissions from maritime transport are estimated to be about ۹۶۱ million tons of CO₂eq [۴]. Then paying attention to the reduction measures of seaports' carbon footprint as critical maritime infrastructure is essential because the intensive use of energy from primary sources has increased carbon emissions. Consequently, an all-out effort is needed to move towards mitigating carbon emissions and limiting climate change effects

کلمات کلیدی:

"sustainable development goals," "greenhouse gas," "seaport," "maritime transport," "climate change," "carbon footprint"

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