

Analysis of the Social Impact Caused by Damage of Rail Freight Corridor from Natural Disasters

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In recent years, the railway network has been damaged by natural disasters, and the rail freight corridor trends to be often unavailable for a long period. Since there are many transport countermeasures, such as business continuity plan (BCP) to be taken against the natural disasters, it is required to objectively evaluate the relevant impacts. In this paper, we systematically organize the transportation capacity structure in the railway line, to comparatively analyze the situations between the normal and disaster term. Finally, using a case study, the increase in volume of CO₂ emissions is discussed, as an example of social impact caused by the damaged freight corridor.