

Research regarding development of CO2 computational evaluation system in construction projects. (Part 1)

[Point]

We aimed the computational evaluation of CO2 emission amount in the construction machinery lifecycle, such as production, operation and disposition. Therefore we researched itemization of material and parts regarding construction machinery production, energy consumption in the factories, and the operation condition of construction machineries.

Based on the research result, we calculated CO2 evaluation basic unit in the machinery lifecycle of presenting models of construction machineries, such as backhoes, tractor shovels, bulldozers, and wheel cranes.

Keyword : global warming , carbon dioxide, CO2, evaluation basic unit, construction machinery, lifecycle