

1. Record Nr.	UNINA9910580219003321
Autore	Ays Isabelle Charlotte
Titolo	Development of a CO ₂ e quantification method and of solutions for reducing the greenhouse gas emissions of construction machines // Isabelle Charlotte Ays
Pubbl/distr/stampa	Karlsruhe : , : KIT Scientific Publishing, , 2022
Descrizione fisica	1 online resource (xxxvi, 270 pages) : illustrations
Collana	Karlsruher Schriftenreihe Fahrzeugsystemtechnik
Disciplina	621
Soggetti	Mechanical engineering Construction equipment
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This work focuses on the development of a quantification method for GHG (CO ₂ e) emissions from construction machines. The method considers CO ₂ e reduction potentials in the time past-present-future, through influencing factors from six pillars: Machine efficiency, process efficiency, energy source, operating efficiency, material efficiency and CCS. In addition, transformation solutions are proposed to reduce GHG emissions from construction machines like liquid methane, fuel cell drive or CCS.