HCT lorries (High Capacity Transport)

Heavy-duty vehicles can increase the efficiency of timber transport and reduce emissions to the environment.

Transportation costs are the most costly part of wood mobilization especially in sparsely populated areas with long distances. The distance between forest and factory can be over 500 kilometers. To reduce costs of long-distance transportation of wood, bigger lorries were innovated and are now tested in Finland in a research project. The environmental effects and traffic safety are also explored.

Full utilization of HCT vehicles requires maintenance of road networks including forest roads, main roads, and bridges.

The 33-metric vehicle combination is able to carry even 70 tons of wood. The vehicle consumes less fuel than the smaller one and therefore contributes to reducing the environmental effects of transportation. The vehicles will also contribute to traffic safety since fewer vehicles will be needed to wood transportation in the future.

The research project is participated by experienced research institutes: Aalto University, Oulu University, Metsäteho, and Tampere Technical University. In the research project, the impacts on the road as well as the features of the lorries are investigated: braking distances, passing capacity, oscillations of the vehicle, and curve driving. The consumption of fuel, emissions, and durability of tires are also focused on.

Cost efficiency is gained in long-distance transportation of wood. The HCT vehicles reduce transportation costs and carbon emissions.

The first combination to transport wood started shipping with a pilot permit in December 2020.

DETALJER

VEDENS URSPRUNG

Skog

TRäTYP

Rundvirke

TYP AV TRä

Stemwood

PåVERKAN På MILJö & BIOLOGISK MåNGFALD

Reduces carbon emissions, consumes less fuel than smaller vehicles

EKONOMISK EFFEKT

Positive

KOMMERSIELL POTENTIAL

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NAV

Norra navet

EKONOMISK PåVERKAN

Less transportation costs, positive effect to climate change

SPECIFIKA KUNSKAPSBEHOV

Skills to handle bigger vehicles

MOBILISERINGSPOTENTIAL

High

HåLLBARHETS POTENTIAL - VäRDE

--

ENKEL IMPLEMENTERING

Easy

ENKEL IMPLEMENTERING - UTVäRDERING

--

NYCKEL FöRUTSäTTNINGAR

Involvement of relevant stakeholder, incl. traffic bureau and other authorities

TYP AV EVENEMANG DäR DENNA BPI HAR PRESENTERATS

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EFFEKT ANTAL ANSTäLLDA

Positive

KOSTNADER FöR IMPLEMENTERING (EURO - €)

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MER INFORMATION

UTMANING SOM ADRESSERAS

5. Förbättra ekonomisk och miljömässig prestanda för skogsförsörjningskedjor

DOMäN

Avverkning, infrastruktur, logistik

TYPE AV LöSNING

--

NYCKELORD

--

DIGITAL LöSNING

Nej

INNOVASION

Nej

UPPHOVSLAND

Finland

POTENTIAL

Regional/landsdel

START OCH SLUTåR

2015 - 2019

KONTAKT INFORMASION

ÄGARE ELLER FöRFATTARE

Metsähallitus

juha.pyhajarvi@metsa.fi

RAPPORTöR

REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

http://www.e-julkaisu.fi/metsahallitus/autoesite/

PROJEKTETS HEMSIDA

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PROJEKTREFERENS

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RESURSER

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PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood

DATUM FöR INLäGG

17 sep 2019

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