Ash as construction material in forest road maintenance

The ashes can be used in a road building among gravel. The use of ash from neighboring heat plants reduces the use of natural aggregates. The use of ash in the construction of the road has been limited, as it is currently subject to environmental permits.
In the forest and energy industries, burning wood produces a lot of ash, which is placed in landfills. The forest industry alone generates more than 300 000 tonnes of exploeable ash every year. The increase in wood energy increases the amount of ash even further. Current measures to benefit from the use of ash do not correspond to the principles of sustainable consumption and production. It would be essential to influence the legislation in order to ease the utilization of ash. It is important to perform carrying capacity measurements and research and test different mixtures of gravel and ash. The environmental issues need to be surveyed.

In Finland there are 135 000 km of forest roads where maintenance is necessary for wood procurement. According to the National Forest Programme 2015, forest car roads should be upgraded to 4 000 km annually. In the construction of roads, cost-effectiveness is most essential. The biggest challenge in most cases is the availability of affordable gravel or crushing near the forest road project. Utilization of ash as material for road construction and maintenance has produced excellent results in terms of both the technical suitability and the environmental impact.

DETALII

SURSA DE LEMN

Pădure

TIPUL DE LEMN

Lemn masiv

TIPUL DE LEMN îN CAUZă

Stemwood, energy wood

IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII

Positive: less waste from production side streams

EFECT ASUPRA VENITURILOR

Positive

POTENțIAL DE EXPLOATARE

--

HUB

Hub-ul de Nord

IMPACT ECONOMIC

Positive

CUNOșTINțE SPECIFICE NECESARE

Knowledge, research and testing of special mixtures

POTENțIALUL DE MOBILIZARE

Not possibile to assess

POTENțIAL DE SUSTENABILITATE - VALOARE

--

FACILITATEA DE IMPLEMENTARE

Easy

FACILITATEA DE IMPLEMENTARE - EVALUARE

--

CONDIțII CHEIE PREALABILE

Information about side streams from mines and forest industry

Information about usability of side streams in road infrastructure

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

--

EFECT ASUPRA LOCURILOR DE MUNCă

New business from utilization of side streams and waste

COSTURI PENTRU IMPLEMENTARE (EURO - €)

--

MAI MULTE DETALII

PROVOCARE ABORDATă

2. Îmbunătățirea infrastructurilor și a capacității actorilor publici

DOMAIN

Recoltare, infrastructură, logistică

Industrii forestiere, economie bio / circulară

Industria energiei din lemn

TIP DE SOLUțIE

Produse circulare, pe bază de bio

CUVINTE CHEIE

--

SOLUțIE DIGITALă

Nu

INOVAțIE

Da

ȚARA DE ORIGINE

Finlanda

SCARA DE APLICARE

Local

ANUL DE îNCEPUT șI DE SFâRșIT

--

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https://tapio.fi/briefly-in-english/

REPORTER

REFERENCES AND RESOURCES

PAGINă WEB

https://tapio.fi/projektit/arvo-tuhka-hanke-tuhkan-maarakentamisen-uudet-arvoketjut/

RESURSE

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WEBSITE PROJECT

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REFERINță PROIECT

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PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood

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