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.

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DETALII	
	DOTENHALLII DE MODILITADE
SURSA DE LEMN	POTENţIALUL DE MOBILIZARE
Pădure	Not possibile to assess
TIPUL DE LEMN	
Lemn masiv	POTENțIAL DE SUSTENABILITATE - VALOARE
	-
TIPUL DE LEMN îN CAUZă	FACILITATEA DE IMPLEMENTARE
Stemwood, energy wood	Easy
IMPACTUL ASUPRA MEDIULUI ȘI BIODIVERSITĂțII	FACILITATEA DE IMPLEMENTARE - EVALUARE
Positive: less waste from production side streams	-
EFECT ASUPRA VENITURILOR	CONDIțII CHEIE PREALABILE
Positive	Information about side streams from mines and forest industry
	Information about usability of side streams in road infrastructure
POTENțIAL DE EXPLOATARE	TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB
<u>-</u>	-
HUB	EFECT ASUPRA LOCURILOR DE MUNCĂ
Hub-ul de Nord	New business from utilization of side streams and waste
IMPACT ECONOMIC	COSTURI PENTRU IMPLEMENTARE (EURO - €)
Positive	_

CUNOȘTINțE SPECIFICE NECESARE

Knowledge, research and testing of special mixtures

MAI MULTE DETALII

PROVOCARE ABORDATă DOMAIN TIP DE SOLUţIE 2. Îmbunătățirea infrastructurilor și a capacității Recoltare, infrastructură, logistică Produse circulare, pe bază de bio Industrii forestiere, economie bio / circulară actorilor publici Industria energiei din lemn **CUVINTE CHEIE SOLUTIE DIGITAL**ă **INOVATIE** Nu Da TARA DE ORIGINE SCARA DE APLICARE ANUL DE ÎNCEPUT SI DE SFâRSIT Finlanda Local DATE DE **CONTACT** PROPRIETAR SAU AUTOR REPORTER **Tapio Oy** Samuli Joensuu samuli.joensuu@tapio.fi https://tapio.fi/briefly-in-english/ **REFERENCES** AND RESOURCES _____ **PAGINĂ WEB RESURSE** https://tapio.fi/projektit/arvo-tuhka-hanke-tuhkan-maarakentamisen-uudetarvoketjut/ **WEBSITE PROJECT** REFERINță PROIECT

PROIECTUL ÎN CADRUL CĂRUIA A FOST CREATĂ ACEASTĂ FIȘĂ INFORMATIVĂ

Rosewood

DATA POSTĂRII

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