



Rijksdienst voor Ondernemend
Nederland

Dutch sustainability criteria for solid biomass

>> *Duurzaam, Agrarisch, Innovatief
en Internationaal ondernemen*



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Energy Agreement for Sustainable Growth

Government and stakeholders agreed on a package to meet 2020 targets

1. An annual maximum of 25 PJ (1,2%) of the 14% Dutch renewable energy target from co-firing
2. Used solid biomass has to comply with sustainability criteria on SFM, GHG emissions, carbon debt and ILUC





Co-firing in the Netherlands

Co-firing in 2012: former dutch renewable energy policy

USA (51%), Portugal (11%), NL (10%), Canada (9%), others (19%)



Total of 1.15 Mtons (approx 8,6 PJ*)

Co-firing according to Energy Agreement in 2020

Annual maximum of 25 PJ (approx 3.3 Mtons*)

* LHV of 17.85 PJ/Mton, conversion efficiency 42%



SFM criteria

- Based on Dutch criteria for timber procurement by the government (TPAS) with some small changes
- Certification at regional level allowed for smallholders (<1000 ha) as part of a growth path towards FMU level
- Both certification and verified self declaration are accepted as evidence





Greenhouse Gas Reduction

Reduction of GHG emissions with **70%** compared to EU reference values (annual average)

Methodology in accordance with publications European Commission

BioGrace II available as calculation tool





Carbon Debt Criteria

Pragmatic approach because of ongoing scientific research and debate. SFM criteria do always apply.

- Focus on forests with a rotation time >40 years
- Bio-energy is not the economic driver of the logging
- Cap on volume or value of the fraction used for bio-energy

No Go's: structurally drained peatlands, converted wetlands, stumps, converted natural forests

Go's: residues from wood processing, non forest wood (eg parks and conservation biomass), used wood



IWUC: no criteria after study by Pöyry

2014	SE USA	West Canada	NW Russia
Supply Potential	140 m odt	48 m odt	61 m odt
Sawnwood	17 m odt	16 m odt	10 m odt
Pulp&Paper	68 m odt	13 m odt	7 m odt
Panels	8 m odt	1 m odt	1,5 m odt
Pellets	6 m odt	2 m odt	1,5 m odt
Energy/fuel	12 m odt	2 m odt	2 m odt
Sawlog assort.	9 m odt	-	19 m odt
Surplus	20 m odt	14 m odt	16 m odt

Reminder: approx 3.3 Mton needed for 25 PJ annual maximum



Implementation

April 2015 SDE+ subsidy into force

From 2015-2016 continue to

- Finalise legal framework including EC notification
- Finalise assessment and verification procedures

Continuation of stakeholder dialogue and cooperation with other implementing member states

