Sustainability certification schemes – state of the art



REDcert RFNBO scheme overview

practical oriented | reliable | efficient

Overview of our schemes









Transfer of concepts and expertise to

other industrial sectors

Chain of custody certification



- Certification of each operator ('interface') of a value chain
- Guarantees compliance with the scheme specific requirements (e.g. tracing sustainability characteristics)
- Based on legal acts or voluntary initiatives
- Already implemented in different industries and value chains



Tracing of sustainable material along the chain of custody



• Different chain of custody models definded in ISO 22095:2020



Scope of RED



agricultural biomass woody biomass from forest waste & residues other carbon sources

RED I		RED II				
bf	bl	bf	bl	bmf		
Х	Х	Х	Х	Х		
				Х		
Х	Х	Х	Х	Х		
		X				
RFNBO / RCF						

bf	biofuel	~~			
bl	bioliquid		A		
bmf	biomass fuel	~~		<u>\$\$\$</u>	L

Directive (EU) 2018/2001 (RED II)

- Defines requirements for:
 - biofuels, bioliquids and biomass fuels
 - <u>recycled</u> <u>carbon</u> <u>fuels</u> (RCF)
 - <u>r</u>enewable liquid and gaseous transport <u>f</u>uels of <u>n</u>on-<u>b</u>iological <u>o</u>rigin (RFNBO)
- specific requirements for RFNBO production are to be defined by the EU-Commission by a **Delegated Act***



* final draft to be formally adopted and published on June 13th 2023



RFNBO under the REDcert EU scheme



1st draft RFNBO in GHG calculation document summer 2022 pilot certification of RFNBO under RVO project fall 2022 presentation to EC as part of assessment process REDcert^{EU} revision of scheme documents according to final draft IR March 2023 System principles special document on RFNBO and RCF developed for the production of **RFNBO and RCF** Version EU 01 May 2023 formal application to EC for recognition June 13th 2023 publication of IR by EC **RFNBO** certification under REDcert EU scheme a.s.a.p

RFNBO/RCF REDcert-EU scheme document

"Aiming for a practical approach for implementing regulations beside those determined by the EC IR"

1 Introduction

- 2 Terms and definitions
- 3 Basic requirements
- 3.1 Requirements on the production RFNBO
- 3.2 Requirements on the production RCF
- 3.3 Requirements on the CO2 source
- 4 Requirements on mass balancing
- 5 Requirements on complete renewable electricity
- 5.1 ... from dedicated connections
- 5.2 ... from electricity grid
- 5.2.1 Share of renewable electricity $\ge 90\%$
- 5.2.2 PPAs and emission factor of electricity ≤ 18 gCO2eq/MJ
- 5.2.3 PPAs and emission factor of electricity > 18 gCO2eq/MJ
- 5.2.4 Electricity from the grid during a balancing group interval
- 5.3 Requirements on additionality
- 5.4 Requirements on the timely correlation

5.5 Requirements on geographical correlation

- 5.6 Requirements on documentation
- 6 Calculation of total emissions from the use of the fuel
- 6.1 Calculation period
- 6.2 Emissions from input material (ei)
- 6.3 Emissions from static input material (estarr)
- 6.4 Emissions from elastic input material(eelastic)
- 6.5 Emissions from existing use (eex-use)
- 6.6 Emissions from use electricity (ei or. ep)
- 6.7 Emissions from processing (ep)
- 6.8 Emissions from the combustion of the fuel end use (eu)
- 6.9 Emissions from transport and distribution (etd)
- 6.10 Emission savings from capture and geological storage of CO2 (eccs)
- 6.11 Multiple Output process and rules on allocation of GHG emissions
- 6.12 Determination of the GHG saving potential by the last interface
- 7 Requirements on neutral inspections
 - Annex

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REDcert | Your partner for sustainability certification

Certification process





...what about costs...?



Costs related with REDcert-EU certification

1. Internal costs

Implementation (mass balance, ERP-system, GHG calculation, training...)

2. External costs

A. Certification costs (to be negotiated directly with the CB) individual

approx. 1-2 audit days plus overhead...

B. 1x p.a. system fees (according to REDcert fee table)

- basic fee 275 EUR

- Number of sites included
- Quantity of biomass/biofuel

275 EUR 55 – 30 EUR/site 0,03 EUR/t (t.b.d)

individual

~2-3.500 EUR

Thanks for listening!





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