



**REDcert² - Your certification scheme
for the use of sustainable biomass as a
material in the chemical industry**

Information sheet

Information sheet for the use of sustainable biomass as a material in the chemical industry

REDcert, with the REDcert-EU and REDcert² brands, is one of the leading certification schemes for sustainable biomass, bioliquids and biofuels in Germany and Europe. With its scheme, REDcert guarantees the implementation of the European sustainability requirements for the use of biomass for energy and material purposes and can be applied to all phases of the production process.

In addition to industries that have already been working with sustainable biomass for some time, e.g. the biofuel, food and beverage industries, more and more industries are discovering the possibilities of using sustainable, certified biomass to replace fossil-based raw materials.

The highly complex production processes of chemical products pose a major challenge for providing evidence that fossil-based raw materials have been replaced by sustainable biomass. Both sustainable biomass and fossil-based raw materials are used as sources of raw material in the production processes at the same time. These are then first broken down into atomic or molecular components, separated and then incorporated into a variety of products. The sustainable biogenic content in these products can vary considerably, making it virtually impossible to reach a valid conclusion about the content in the end product based on analytical evidence as a result of large-scale chemical compound processes.

In order to therefore meet the special requirements of the chemical industry, supplementary scheme principles have been formulated for the REDcert² certification scheme in which, among other things, a new methodological approach to biomass balancing is described which can be used as an alternative to traditional "mass balancing". This biomass balancing upholds the principles of the CMS 71 standard and balances individual atomic components of sustainable biomass on the basis of their energetic valence and is based on an equivalence analysis according to defined "formulas" for manufactured products. This standard, originally published as **CMS 71**, was exclusively adopted by REDcert and integrated into the REDcert² scheme as an optional approach to meeting the needs of the chemical industry.

The **REDcert² scheme** is a certification scheme for sustainable biomass production for the food and animal feed industry as well as the use of biomass as a raw material. The scope of the scheme can be expanded to include processing (conversion) and supply/trade. For the chemical industry, it is a scheme used to show that fossil-based raw materials have been replaced by certified sustainable biomass using the mass balancing approach.

For the production of REDcert² certified products, the biomass used in the chemical production process must also be certified as sustainable and a valid REDcert² or REDcert-EU certificate must be available as proof. Biomass from other sustainability schemes can only be accepted if the sustainability certificate originates from a scheme that has also been recognised by the EU Commission or positively evaluated by the Sustainable Agriculture Initiative (SAI) or is FSC or PEFC certified.

Why should you participate in the REDcert² scheme?

- REDcert offers you many years of experience and expertise in sustainability certification.
- The REDcert² certificate offers the chemical industry new opportunities and methodical approaches for the sustainable replacement of fossil-based raw materials and thus makes an active contribution to climate change mitigation.
- A REDcert² certificate offers you verified replacement of at least 20% of the required fossil raw material by an equivalent amount of sustainably certified biomass. As a certificate holder, you can use various advertising claims for this purpose.
- REDcert offers you technical expertise and individual advice from a single source.

The path to sustainability certification in the REDcert² scheme

The diagram below shows the basic workflow of a REDcert certification process - from initial registration of the company, through first certification, to the subsequent re-certifications, in order to be able to meet market demands with a current certificate.

REGISTRATION



CERTIFICATION



Do you still have other questions? We would be happy to help!

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