

# REDcert<sup>2</sup> - certification solution for the chemical industry

## Process-spanning mass balancing



### Input materials

are compared in classic and process-specific mass balancing on the basis of their weight and a proportional share of renewable materials is determined. This percentage is transferred to the products of the process, where it can usually be freely redistributed (**attributed** or **allocated**) in the balance sheet. For the more complex processes in the chemical industry, REDcert<sup>2</sup> offers the specially developed approach of the **process-spanning mass balancing**. Here, the total demand of resources required for the production of a material is determined across the entire value chain. Raw materials are booked according to their chemical value (heating value) instead of their mass, which allows a more differentiated view. The amount of raw materials entered can be used via a credit system to transfer sustainable properties to the products of the process in the balance sheet. Since it is always calculated back from a product to the raw materials, it is possible to consider several production steps in succession. Another advantage is that further (fossil) input materials can be taken into account in later production steps according to their determined resource requirements and not only on the basis of their mass.



