

Work Case 2



Supply chain traceability and sustainability certification

APPROACH

MCS conducts the project in 4 basicsteps:

1. Mapping of supply chain, processes and system boundaries
2. Development of certification concept
3. Provision of relevant documents
4. Conduction of implementation workshop

OVERVIEW

A methanol producer wants to start sourcing bio-based and/or circular feedstocks to diversify the portfolio and enter new markets.

At the moment, the methanol is already sold to the chemical sector, mainly for plastics production and other industrial applications.

Especially the plastics industry is more and interested in bio- and circular feedstocks, following growing consumer demand. Apart from the chemical sector, the methanol producer has identified an additional market opportunity: the EU biofuels market for transportation.

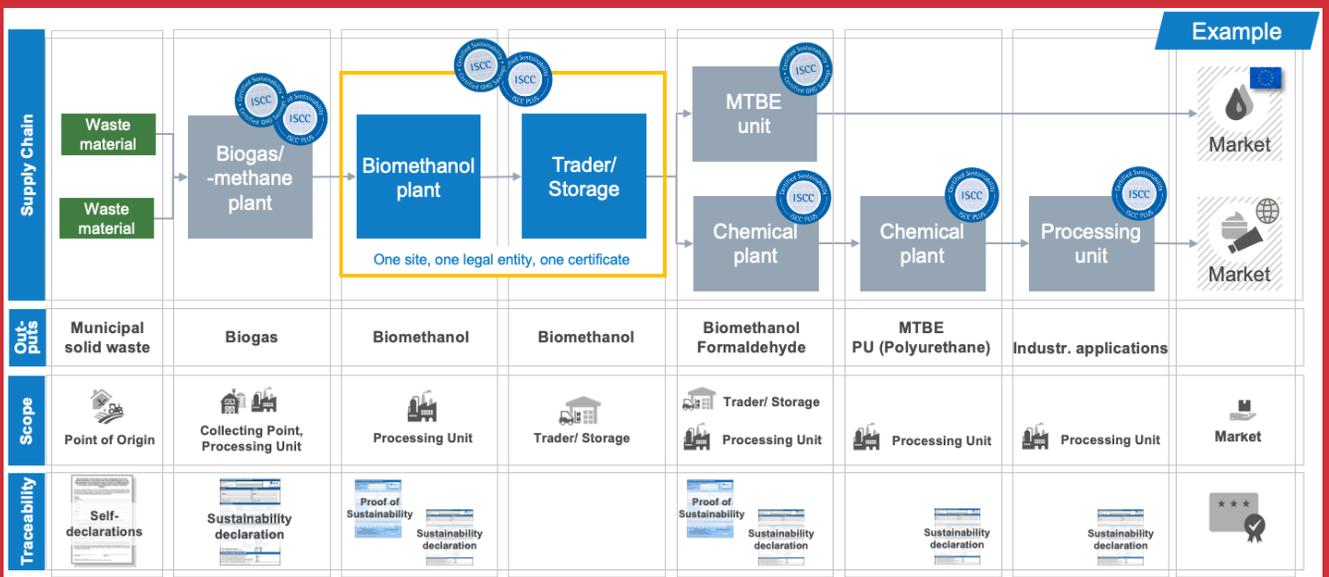
Considering the identified market access strategy, the customer has asked Meo Carbon Solutions to support with the implementation of a credible and economical certification approach for their bio-/ circular methanol.

Step 1: Mapping of supply chain, processes and system boundaries

As a basic step, the overall supply chain and the individual production/ corporate set-up is analysed and mapped. Based on this, audit scopes and system boundaries can be defined.

Step 2: Development of certification concept

Based on the previous mapping, MCS develops an individual certification concept based on the target markets. This includes defining the chain of custody option as well as options to attribute the sourced feedstock to equivalent volumes of outputs at the respective units in the value chain (in case of mass balance approach). Please see below a figure of a typical sustainability certification set-up along a biogas/ biomethane supply chain.



Step 3: Provision of relevant documents

In a next step, MCS provides relevant documents and checklists for an easy audit preparation. This way the audit can be prepared in an efficient manner and gaps are identified well in advance.

Step 4: Conduction of implementation workshop

In a comprehensive workshop, the certification approach and its implications with respect to certification effort and practical audits are discussed. Marketing/communication options for the new sustainable product are covered as well. Further support (email, calls, webinar) is provided by MCS until an initial successful certification audit.



Economic Result

Market access and expansion of product portfolio



Ecologic Result

Efficient scaling up of sustainable feedstock shares



Social Result

Transparent and credible supply chain traceability