

Endorsement of Laboratories – European Biochar Certificate (EBC) and World Biochar Certificate (WBC)

Laboratories seeking approval to conduct analyses for certification purposes must undergo a quality control process. The quality and reliability of the analyses performed by a laboratory are validated through participation in a laboratory approval process organized by an external and independent quality assurance organization. [DCC Delta Coal Control GmbH](#), based in Herten, Germany, is our partner for laboratory approval procedures.

This document aims to provide a clear understanding of the steps involved and the requirements needed to obtain the endorsement as laboratory for EBC and WBC by Carbon Standards International.

The endorsement is valid for EBC and WBC and for 1 year. To obtain re-endorsement each year, the ring trial must be repeated.

1. Endorsement process

Step	Description	Responsible party
1	Laboratory reaches out to Carbon Standards International (CSI) for a first introduction call right here .	Laboratory
2	The Laboratory registers for the endorsement process. Registration can be done through this link . With this step the registration fee will be invoiced.	CSI / Laboratory
3	The laboratory registers at Delta Coal Control .	Laboratory
4	Delta Coal Control will send a standardized sample to the "applicant" laboratory with the request to perform an analysis required for certification using the testing methods specified in the applicable standard.	Delta Coal Control
5	The laboratory will analysis the samples and send the results to DCC.	Laboratory
6	The laboratory hands in the laboratory accreditation confirmation, e.g. ISO 17025, to CSI, the signed three-party agreement and the final results of the ring trial from DCC.	Laboratory
7	Upon successful completion, the laboratory will receive a certificate designating them as an "Endorsed Laboratory". The laboratory will be listed on the website of CSI. After the audit the costs for the endorsement process will be invoiced. If the endorsement is not successful, the laboratory has the chance to improve their processes and start the endorsement process again. The costs for the endorsement will be invoiced in any case.	CSI

2. General requirements

In the following table, general requirements of Carbon Standards International for System provider are listed. Those aspects are additional to the specific requirements of the EBC/WBC standard.

Requirement	Description
Analysis parameters	<ul style="list-style-type: none"> See Annex 1-4 of EBC Guidelines, using the testing methods specified in the guidelines. DCC Delta Coal Control GmbH will provide a detailed description about the parameters and the analysis methods.
Margin of error	<ul style="list-style-type: none"> The difference between the results of the new laboratory and the accredited laboratory must not exceed 6% for each respective biochar.
Results sharing	<ul style="list-style-type: none"> The laboratory is required to share any analysis report of a biochar sample for EBC/WBC assessment with CSI.
Ring trial	<ul style="list-style-type: none"> The ring trial must be conducted annually. Upon successful completion, the endorsement will be renewed.
Offering of analysis	<ul style="list-style-type: none"> If a laboratory cannot carry out all analyses required by the EBC/WBC guidelines, they can subcontract analyses for specific parameters, provided the subcontractor has also passed the ring trial. But at least 50% of the analysis must be carried out inhouse.