DEUTSCHE INSTITUTE FÜR
TEXTIL+FASERFORSCHUNG

CO_2 FOOTPRINT OF PRODUCTS

PRODUCT CARBON FOOTPRINT

CALCULATED BY DITF

EUROPEAN GREEN DEAL

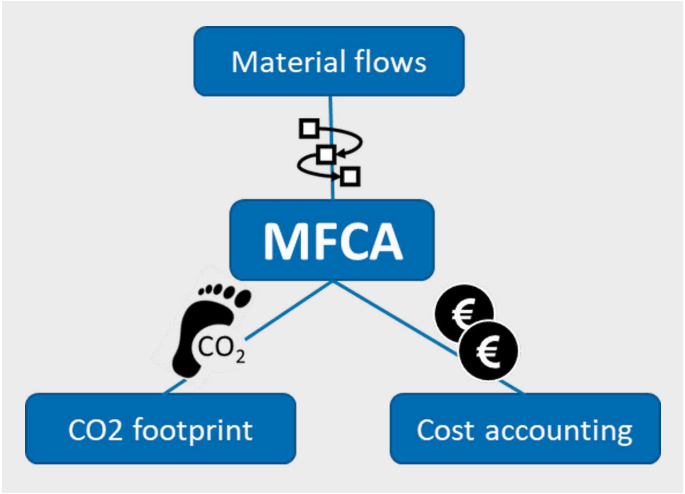
As part of the Green Deal, the EU plans to require companies to determine and publish the product carbon footprint (PCF) of their products in the future.

There is a standardized process for this in accordance with ISO 14067:2018. In the case of complex manufacturing processes for textiles, which consist of many different stages and are interlinked, the compilation of the necessary data and information and the calculation of the PCF is challenging and not yet systematized.

To meet these challenges, specific models of the production processes are being developed as part of the collaboration using the MFCA (material flow cost accounting) method. These models are parameterized and thus allow the calculation of the PCF for any products in different process stages.

MATERIAL FLOW COST ACCOUNTING

The "Material Flow Cost Accounting" (MFCA) method is used to model and simulate the processes. This creates the basis for analyzing material and energy flows, taking into account ecological and economic aspects. The focus here is on the consumption or loss of resources (e.g. material, energy, time, money).



Three in one: material efficiency, economy and ecology

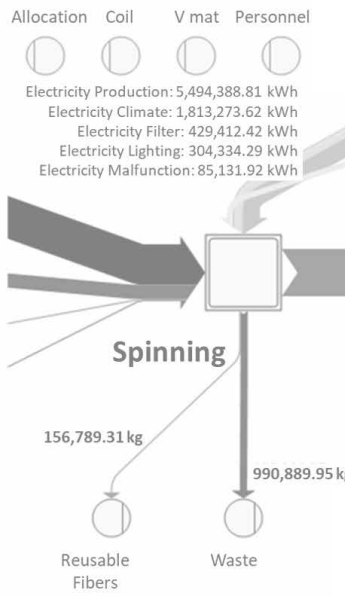
The special feature of this methodology is the possibility of combining different issues with one model. Thus, material efficiency, ecology and economy can be analyzed holistically. The different considerations correspond to one specific view.

COMPETENCIES

At the Center of Management Research, this methodology has been used successfully for many years for various issues. As a result, extensive module libraries for the various textile processes have been created over the years.

Many detailed process modules are already available, ranging from spinning to surface production and finishing to confection with cutting.

These are parameterized so that different products can be mapped with one model. This means that customer-specific product data can be efficiently integrated for many processes.



OUR SERVICE MODULES

To enable you to plan your way in these topics step by step, we have put together different service offers for you. This allows us to create the right offer for you, from the first introduction to the methodology to its productive use, such as the calculation of complete product ranges or the comparison of alternative product variants and process technologies.

Module Entry Workshop

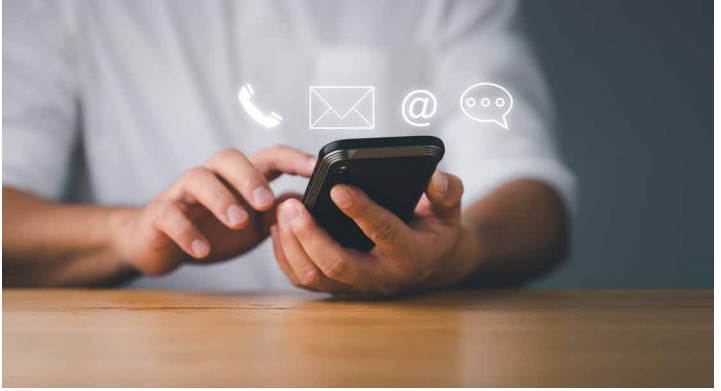
In this workshop, we develop with you the framework for determining the PCF of your company's products. Afterwards, terms such as PCF, Scope1, Scope 2, Scope 3 are no longer foreign words to you. And the critical hotspots in your product portfolio will become visible.
The offer includes a one-day workshop on site as well as preparation, follow-up and documentation.

Package price 2,990 €

Module PCF Product Line

Development of a company specific process model for a product line. The most important parameters (parts list, work plan, energy requirements, emissions) are collected in Excel and linked with MFCA models. These models can be used for different products and variants. This forms the basis of the PCF for your complete product portfolio. In addition, alternative process technologies and new products can be simulated in advance. This enables you to perform a targeted potential analysis.

Please contact us. We will be happy to create a customized offer for you.



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Your contribution to the EU's climate target of reducing emissions in the EU by at least 55 % by 2030

FIT FOR 55

The German Institutes of Textile and Fiber Research Denkendorf conduct research along the entire textile value chain from the molecule to the product. They are a foundation under public law and supervised by the of the Ministry of Economics, Labor and Tourism Baden-Württemberg.

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