

TfS PCF Exchange solution

Exchange your PCF

Become a frontrunner in
the global fight against
climate change



Together for Sustainability (TfS) is a member-driven initiative, raising CSR standards throughout the chemical industry. Our members are chemical companies committed to making sustainability improvements within their own – and their suppliers' – operations.

The TfS Scope 3 GHG emissions programme is an industry-wide approach to monitor, manage, exchange and reduce emissions throughout the chemical supply chain.

More info

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The Scope 3 challenge

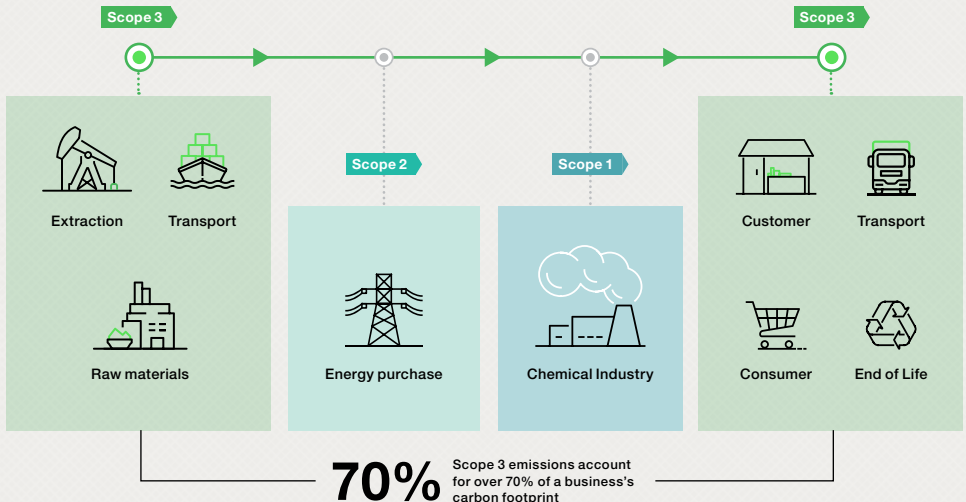
45%

is the reduction in GHG emissions required to meet the 2030 target of the Paris Agreement.

The Scope 3 challenge

The chemical industry forms the backbone of the global economy, with many other industries dependent on its processes and products. Decarbonisation across the sector is crucial if we are to meet the Paris Agreement's 2030 milestone to reduce GHG emissions by 45% by 2030.

Companies tackling their overall emissions have direct control over Scope 1 and 2, but **not** over the emissions from their supply chains. As on average, in the chemical industry, Scope 3 emissions account for over 70 % of a business's carbon footprint, it is imperative that a standardised method of measurement is available if we are to tackle and reduce them.



02

TfS Scope 3 programme

A standardised method

is imperative to tackle and reduce Scope 3 emissions.

The TfS solution

To address the Scope 3 challenge and alter the course of the chemical sector's climate trajectory, Together for Sustainability (TfS) developed the Scope 3 GHG emissions programme, an industry-wide approach to monitor, manage, exchange, and reduce emissions throughout the chemical supply chain.

The TfS Scope 3 GHG emissions programme includes the following complementary tools: the TfS PCF Guideline, the TfS PCF Exchange solution and the TfS Academy.

Our comprehensive Scope 3 Programme includes the following complementary elements:

PCF Guideline and Data Model



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PCF Exchange Solution



[LEARN MORE](#)

Training Programme



Holistic multilingual training programme

[LEARN MORE](#)

03

TfS Product Carbon Footprint Guideline

a step-by-step guide

for chemical suppliers and adjacent industries

The gold standard for calculating PCFs

In December 2024, TfS has launched an updated **Product Carbon Footprint (PCF) Guideline** which quickly became the global “standard” for transparency and simplicity when calculating emissions in chemical supply chains. The guideline is helping chemical companies understand their impact and find ways to decarbonise.

The first of its kind, the TfS PCF Guideline provides a step-by-step guide for chemical suppliers and adjacent industries to calculate the carbon footprint of their products. This provides chemical producers with the data they need to set tangible emissions reduction targets and drive decarbonisation across the sector. Open-source, and available in multiple languages, the TfS PCF Guideline is a truly global solution to a global challenge.

How does TfS help chemical supply chains?



PCF Guideline

Developed a global standard for calculating emissions in chemical supply chains.



The guide helps chemical companies understand their impact and find ways to decarbonise their activities.



Standardised calculation

TfS PCF provides a step-by-step guide to calculate the carbon footprint of their products with a standardised method.



Reach emissions-reduction targets

The guide helps to set tangible targets for emissions reduction and decarbonisation across the entire sector.

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TfS PCF Exchange solution

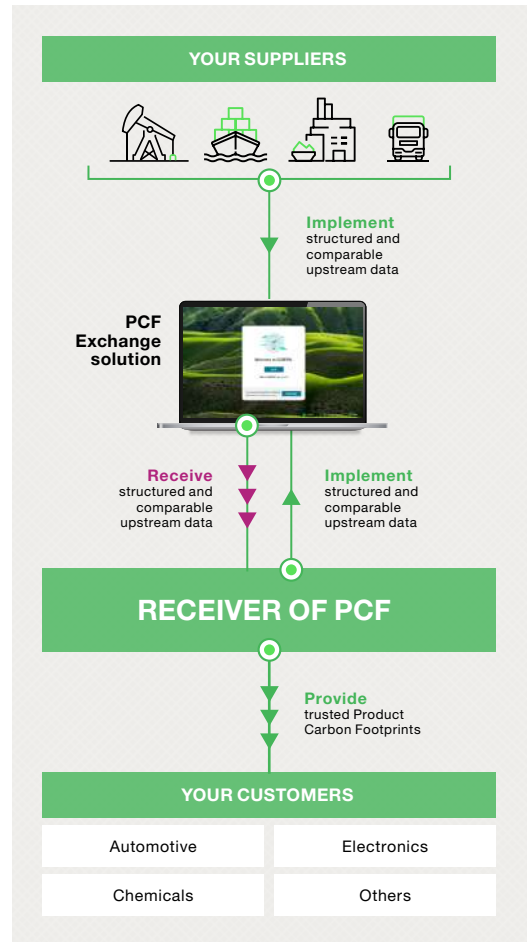
TfS has launched a PCF Exchange solution using Siemens' SiGREEN software

To compliment the TfS PCF Guideline, TfS has launched the TfS PCF Exchange solution powered by Siemens' SiGREEN technology. This solution drives transparency in the chemical sector, facilitates PCF exchange at scale, and contributes to decarbonisation goals. SiGREEN is an advanced PCF exchange solution, offering a trusted environment to safely exchange PCFs.

By using the PCF Guideline as the method to calculate PCF – and the PCF Exchange solution to exchange the information at scale – TfS members are equipped with the tools required to reach their GHG reduction goals and make their contribution to the Paris Agreement.

The TfS PCF Exchange solution allows companies to:

- **Exchange structured data from their suppliers** using the TfS format (data is compliant with the TfS PCF Guideline)
- **Compare supplier data** process it further into the calculation of PCFs, and **share the results with customers in downstream sectors** (automotive, chemicals, electronics, etc.)



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Advantages of the solution

Enabling cross-company PCF data exchange

The Tfs PCF Exchange solution is:

- **Easy to use**
SiGREEN is a web-based Software as a Service that does not require download or software installation.
- **Structured supply chain data**
Exchange structured data using the Tfs PCF format, compliant with the Tfs PCF Guideline and WBCSD PACT.
- **Multi Standards-compliant**
Full compliance with the **Tfs PCF Guideline** as well as other PCF standards (i.e. Catena-X for the automotive industry, WBCSD).
- **Free of charge**
The solution is provided free of charge.
- **Efficient and scalable**
SiGREEN allows companies to create a PCF once and enables sharing it with multiple customers. Similarly, SiGREEN enables companies to exchange a PCF on one single platform.
- **Feature-rich**
Continuously enhancements based on supplier and customer feedback and close collaboration with Tfs as well as other relevant industry associations. APIs are under development and will become available in 2024. The solution also provides a plausibility check for each PCF exchanged.
- **A Cross-industry solution**
Ensures that your PCF data is exchanged in a WBCSD PACT compliant solution that will enable data to be shared across platforms and industries. Users benefit from SiGREEN's knowledge gained beyond the chemical industry with results applicable across sectors.
- **Secure and trustworthy**
SiGREEN enables the exchange of confidential data with reduced hurdles, making the data exchange more efficient while guaranteeing encryption.
- **Understanding Emission Data and Information**
Users gain a better understanding of the GHG emissions associated with their raw materials – helping them improve emissions tracking and sustainability performance to reach reduction targets.
- **Improving sustainability performance**
And that of the value chain as well as a company's own operations.

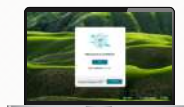
Tfs PCF Exchange solution is an easy-to-use tool for data implementation.

Free of charge to suppliers to encourage uptake.

A Cross-industry solution



Full compliance with the Tfs PCF Guideline as well as other PCF standards



Be a strong voice of the chemical sector

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Cross-functional collaboration

Increases efficiency

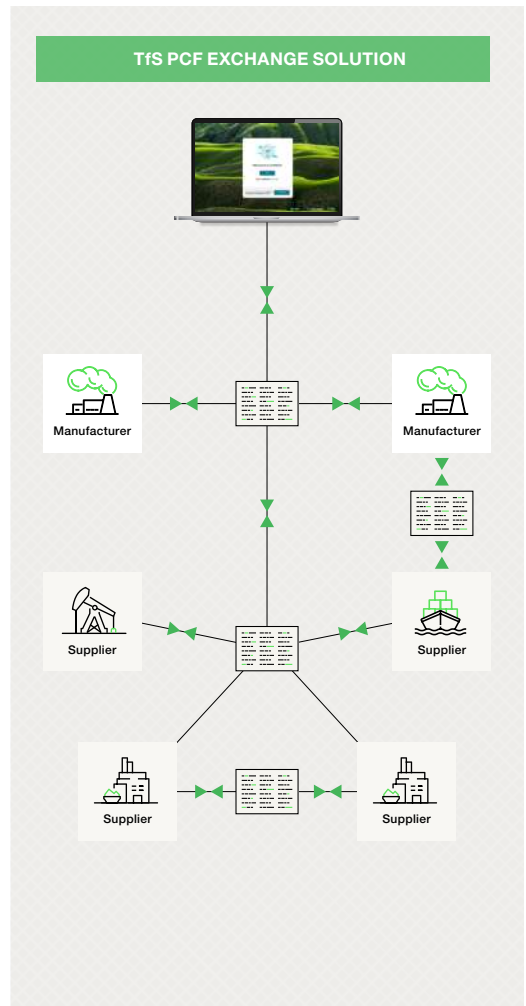
within each of the companies and their suppliers

The TfS PCF Exchange solution allows companies to collect data needed for creating a product carbon footprint in a cross-functional collaboration.

The TfS PCF Exchange solution not only increases efficiency in communicating with other companies and intra-company exchange of PCF data, but also within each of the companies and their suppliers.

Roles include:

- **Product Manager:** Enters and maintains the products for which PCFs will be shared.
- **Carbon Assessment/Sustainability Experts:** Analyses the data from different suppliers, identifies and fills the gaps where supplier data is currently unavailable.
- **Procurement Department:** Liaises with suppliers, works on maintaining and requesting the data of the products and components from suppliers.
- **Plant Manager:** An optional role for companies that want to connect SiGREEN to their operations for gate-to-gate emission metering. Your own gate-to-gate emissions also contribute to the PCF. These can be handled either within or apart from the TfS PCF Exchange solution.



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Get started

01

Sign-up to Sigreen

If you receive an invitation email from one of your customer, kindly follow the steps explained in that email.

Alternatively, visit: <https://app.sigreen.siemens.com> to sign up for the TfS PCF Exchange solution.

02

Leverage the Knowledge Base

SiGREEN provides online guides on how to get started and use the tool. A keyword search makes it easy to find the help you need.

You may start here:
[siemens-help](#)

Also check out the User Guides on the [TfS Website](#):

- [Requesting a PCF](#)
- [Responding to a PCF request](#)

03

TfS Academy

Discover valuable training resources in the [TfS Academy](#)

Explore the Decarbonisation Programme in the TfS Academy, as well as the learning plan “The TfS PCF Data Exchange solution – SiGREEN”.



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Testimonials from TfS Members

“The PCF Exchange solution really enables our company to collaborate with business partners, including suppliers and customers, more efficiently and to scale our PCF request activities.”

**Christina Merz – Evonik – Senior Manager Sustainability
at Procurement**

“The TfS PCF Exchange solution offers distinct benefits for suppliers. In accordance with the TfS principle, suppliers will only have to develop one PCF and can decide to reshare the PCF data multiple times. That is a big win for suppliers and customers.”

**Petra Lehmann – AkzoNobel – Global Procurement
Sustainability & Risk Manager**

About together for sustainability (TfS)

Together for Sustainability (TfS) is a non-profit initiative driven by chemical procurement specialists. Our members are chemical companies representing a global annual turnover of over €800 billion, and €500 billion in global spend.

We help our members work together to better measure and improve the sustainability of chemical supply chains. The **TfS PCF Guideline** (the global standard to help both corporations and suppliers calculate Scope 3 emissions), and the **TfS Academy** (a tailored learning and development platform designed to help upskill TfS member companies' procurement teams and their suppliers on sustainability) are just two of the tools we have developed for our members.

Together we are building the global standard for the environmental, social and governance performance of chemical supply chains.

tfs-initiative.com

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