

# Circular Solutions

December 2024

Issue No. 43

## Marks of Innovation:

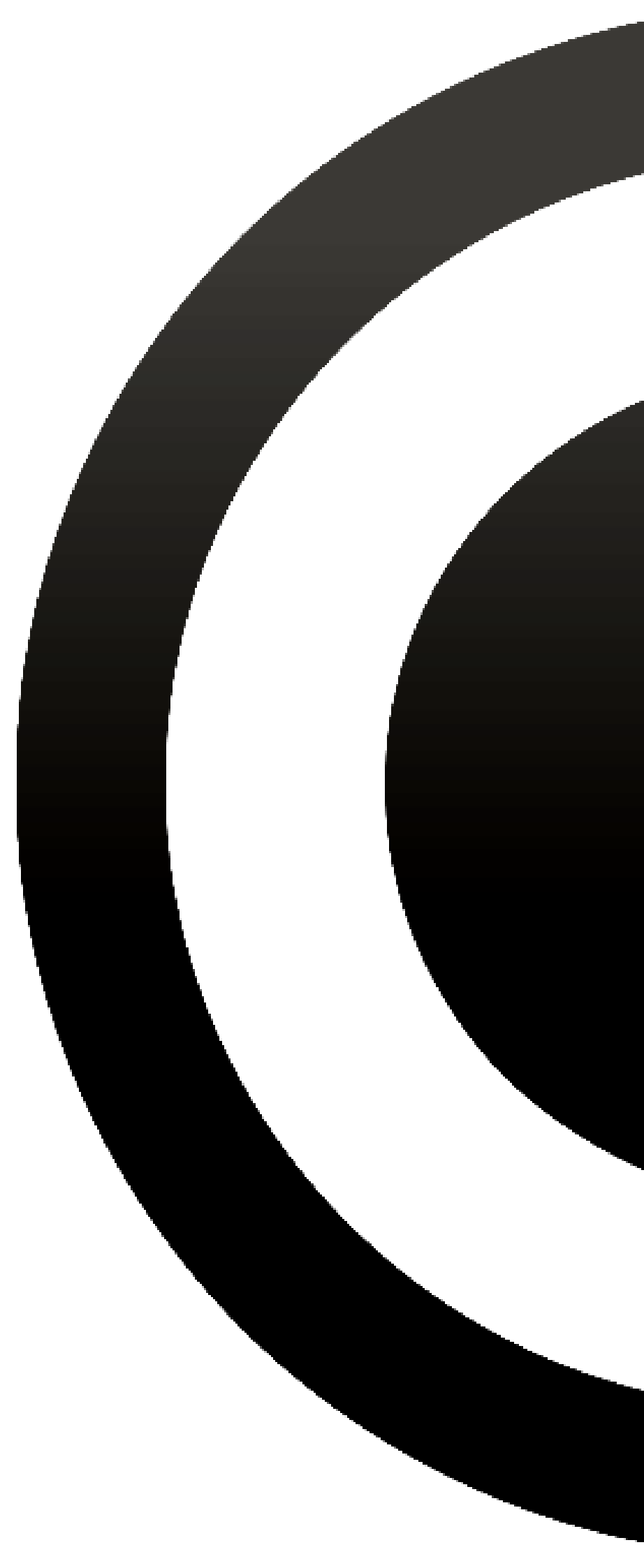
The Future of Sustainable Cookware



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Published in Hong Kong  
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Circular  
Solutions



# Sustainable & Innovative Materials & Products

# Sustainable Future

## Stainless Steel Cookware



Stainless Steel Casserole



Stainless Steel Coated Wok

Our stainless steel cookware is designed with sustainability in mind, utilizing recycled and eco-friendly materials. We primarily use **high-quality 304 and 430 stainless steel**, along with bonded ply materials like 3-ply and 5-ply, which combine stainless steel, aluminum, and sometimes copper for superior performance.

While single materials are easier to recycle, facilities exist that utilize mechanical separation and heat treatment for mixed materials. Although PTFE-coated fry pans pose

recycling challenges, they can be efficiently recoated, extending their lifespan significantly. Additionally, our cookware can be later coated with other materials, ensuring that, when used and maintained properly, it can serve you for years to come. By choosing our stainless steel cookware, you're not just investing in high-quality kitchen tools—you're also supporting a sustainable future.

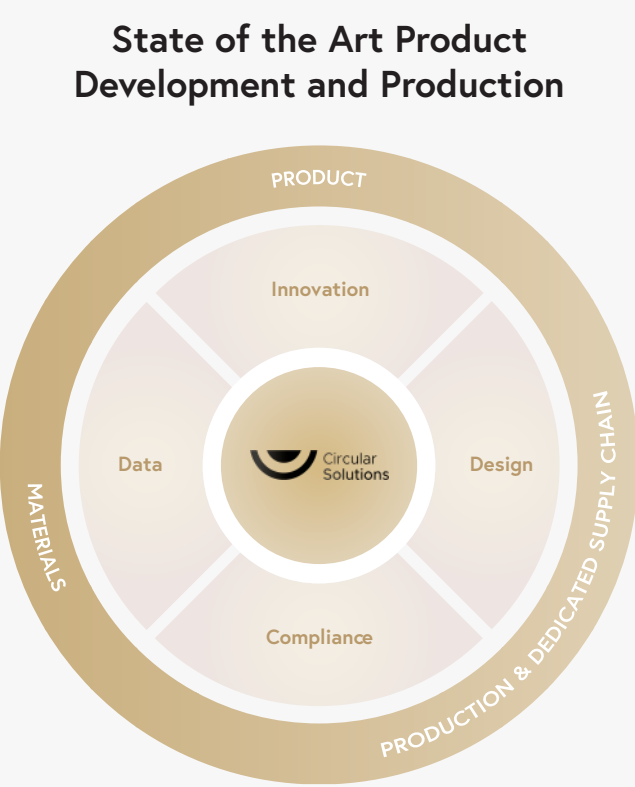
# Overview

## Requirements



- Quality**
- **Material Selection:** We choose high quality materials that align with the brand's standards and customer expectations. This includes fabrics, leathers, and synthetic materials that offer durability, comfort, and aesthetic appeal.
  - **Manufacturing Processes:** We work with partners of skilled craftsmanship and advanced manufacturing techniques to ensure product consistency and excellence. Quality manufacturing reduces defects and returns.
  - **Quality Control:** We implement rigorous quality control measures at every production stage. Regular inspections and testing help maintain high standards and build customer trust.

- Price**
- **Cost of Production:** We analyze all costs involved, including materials, labor, overhead, and logistics. Understanding these costs is essential for setting a competitive price point.
  - **Pricing Strategy:** We develop a pricing model that balances profitability with market competitiveness. Consider factors like target audience, perceived value, and competitor pricing.
  - **Economies of Scale:** We optimize production volumes to reduce per-unit costs. Larger production runs can lower costs but require accurate demand forecasting to avoid excess inventory.



- Legal Requirements**
- **Regulatory Compliance:** We ensure all products meet local and international regulations, such as safety standards, flammability requirements, and chemical restrictions (e.g., REACH, CPSIA).
  - **Labeling and Documentation:** We adhere to legal requirements for product labeling, including country of origin, material composition, care instructions, and size information.
  - **Trade and Import/Export Laws:** We comply with customs regulations, tariffs, and trade agreements in all countries where the product will be sold.

- Sustainability**
- **Eco-friendly Materials:** We use sustainable, recycled, or organic materials to reduce environmental impact. This appeals to environmentally conscious consumers and can differentiate your brand.
  - **Sustainable Manufacturing:** We implement processes that minimize waste, reduce energy consumption, and lower carbon emissions. Consider certifications like ISO 14001 for environmental management.
  - **Ethical Labor Practices:** We uphold fair labor standards, including fair wages, reasonable working hours, and safe working conditions. Certifications like Fair Trade or SA8000 can validate your commitment.
  - **Transparency and Reporting:** We are transparent about your supply chain and sustainability efforts. Regular reporting can enhance brand reputation and customer loyalty.



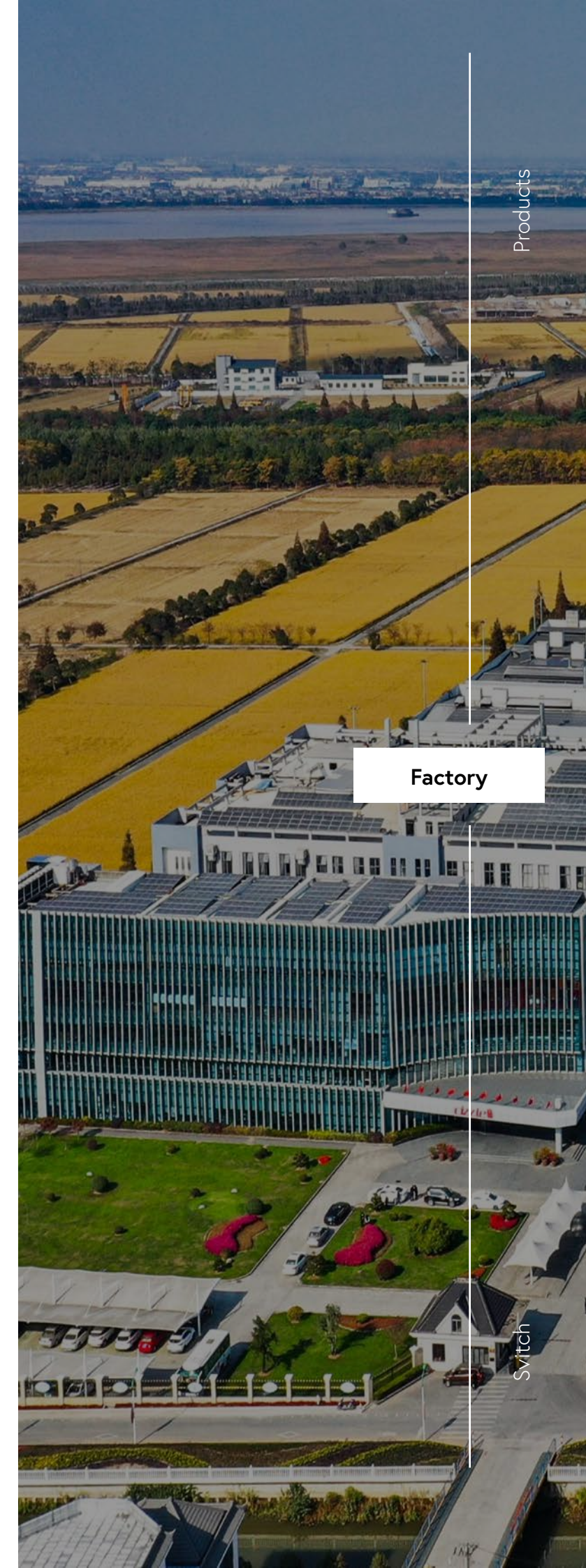


# Factory Profile

cizle 中国不锈钢锅具中心



# Shanghai Guanhua Profile



Factory

## What is Guanhua?

SHANGHAI GUANHUA STAINLESS STEEL PRODUCTS CO., LTD is an enterprise specializing in OEM/ODM production for high end cookware. We provide OEM/ODM services for stainless steel cookware, such as frying pans, woks, casseroles, saucepans, oval roasters, pressure cookers and other stainless steel cookware products.

Our company began manufacturing cookware products in 1978. We became Shanghai Guanhua in September of 2000. Our factory occupies an area of more than 100,000 square meters. The facility is located in the ChongMing District of Shanghai, providing convenience in all aspects of business.

## What makes Guanhua unique?

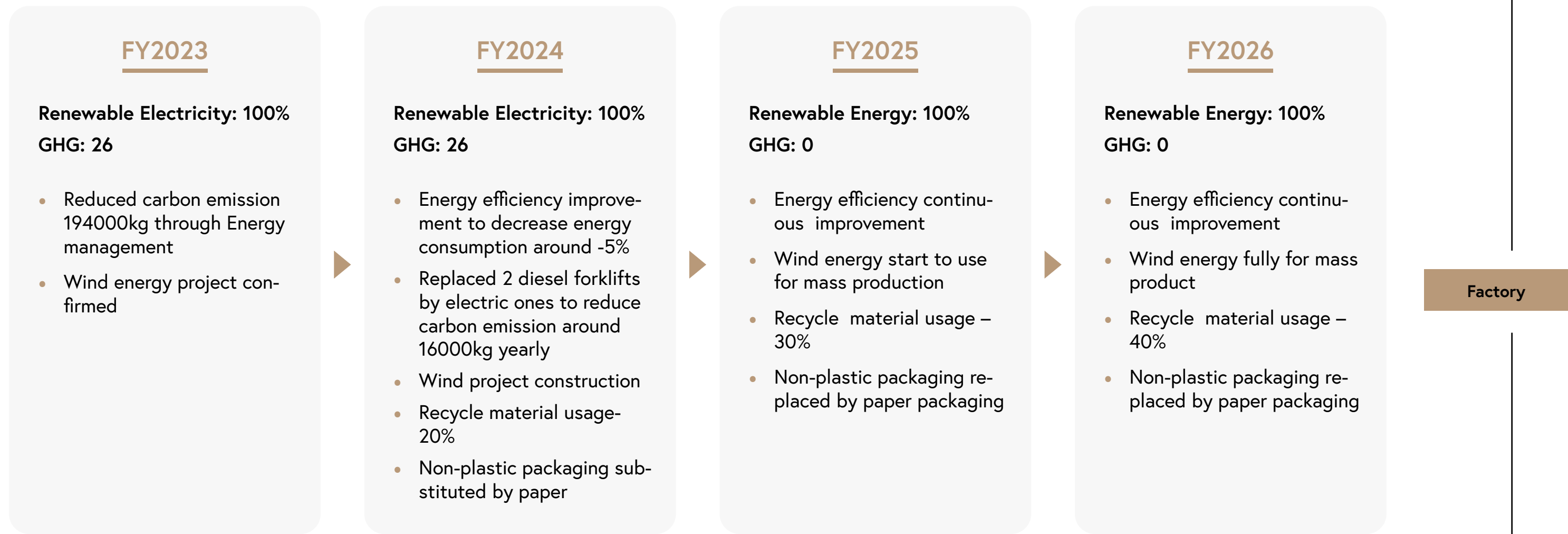
Guanhua distinguishes itself through its commitment to sustainability, highlighted by our Wind Energy Project confirmed in FY22. Located in Chongming Island, our factory benefits from unique natural conditions ideal for renewable energy. We are installing turbines with a planned capacity of 12 MW, aiming to generate 35 million kWh annually with an estimated investment of 80 million CNY.

We are improving energy efficiency to reduce consumption by 5% and transitioning to electric forklifts to cut carbon emissions. By FY25, we will integrate wind energy into mass production and increase recycled material usage to 30%, all while replacing non-plastic packaging with paper.



# Shanghai Guanhua

## Wind Energy Project



In FY22, Guanhua confirmed its commitment to sustainability with the introduction of a **wind energy project**, strategically located in Chongming Island, which offers unique natural conditions ideal for renewable energy generation. The project involves the installation of turbines at locations No. 14, 15, and 16, with a planned capacity of **12 MW**, expected to produce an annual output of **35 million kWh**. The

estimated investment for this initiative is **80 million CNY**, reflecting Guanhua's dedication to becoming a green factory and reducing its environmental impact through sustainable energy solutions.



# Shanghai Guanhua

## Solar Energy Project



Factory

Guanhua is dedicated to sustainable development, exemplified by its **solar photovoltaic (PV) projects** aimed at harnessing renewable energy. The first phase of the solar PV initiative was launched in October 2017, featuring a total capacity of **300 kW** and covering an area of 1,800 square meters. This project has made a significant impact by reducing carbon emissions by **190,000 kg** annually, showcasing Guanhua's commitment to environmental responsibility.

Building on the success of the initial phase, the second and third phases of the solar PV project were connected to the grid in 2019. These expansions boast a combined

capacity of **5,500 kW** and occupy **33,000 square meters**. Together, they generate approximately **5.5 million kWh** of electricity each year, leading to a remarkable reduction in carbon emissions by **3.45 million kg** annually.

Through these solar energy initiatives, Guanhua not only advances its commitment to renewable energy but also contributes to global efforts to combat climate change. The projects reflect a strategic vision for a greener future, aligning with the company's broader sustainability goals while providing clean energy to support its operations.





Behind  
the Scenes



# Production Sites:

With our network of integrated partners for material production, assembly, and cookware production we cover all aspects of innovative and sustainable production





# Factory Tour

## Manufacturing Power



Blanking



Stretching



Impact Bonding



Assembly



Coating



Polishing

Guanhua boasts impressive manufacturing capabilities across several key processes.

In the blanking section, the company operates **five automatic blanking machines**, achieving remarkable daily output. For stretching, we have multiple lines with **over 100 stretchers** to enhance capacity. The impact bonding department features **two high-capacity 2500-ton machines** and **ten 1600-ton machines**, ensuring exceptional bonding performance. In polishing, we employ several fully au-

tomatic and semi-automatic lines imported from Italy for high-quality finishes. In the coating process, we operate **three lines for PTFE and ceramic paint**, recognized for having the best Teflon coating line for several consecutive years. The company partners with leading brands like Chemours-Teflon and ILAG.

Finally, Guanhua assembles cookware bodies and accessories, achieving an impressive annual production of up to **10 million** pieces.



# Factory Tour

## Manufacturing Power



Guanhua utilizes **15 laser marking machines** to efficiently mark logos on kitchenware products. The **fully automatic ultrasonic cleaning line** ensures that finished products are thoroughly cleaned before delivery, removing any manufacturing residues. During the packaging process, products are labeled using a **semi-automatic line**. Before storage, a stringent inspection is carried out by **QC inspectors**, who sample batches to verify key dimensions, appearance, polishing quality, corrosion resistance, and other essential performance metrics.

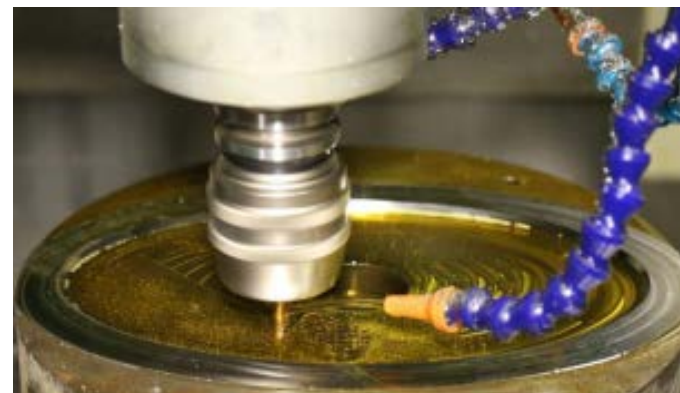
Guanhua's standardized **warehouse** maintains constant temperature and humidity, adhering to strict fire protection standards. Managed by specific personnel, the warehouse ensures that products are stored separately and marked clearly. Each item is meticulously checked and recorded by the warehouse manager before being organized in designated





# Factory Tour

## Design Capacity & Molds Manufacture



Guanhua features a professional design team capable of creating custom products tailored to customer needs. Our designers are proficient in advanced design software, including Pro-E, Solidworks, UG, AutoCAD, and Rhino. To enhance our customization services, we have partnered with a third-party design company. We provide custom stainless steel cookware for prominent suppliers and have collaborated on product designs for brands such as WMF, Silit, Berndes, FAGOR, Roesle, KUHN RIKON, NAKAYAMAFUKU, and Buffalo.

In terms of mold manufacture, Guanhua employs CNC lathes, CNC milling machines, wire cutting ma-

chines, and other advanced CNC equipment to create high-quality molds that bolster our manufacturing capabilities. Each production line is supported by dedicated mold design and maintenance teams, ensuring timely adjustments and problem resolution.

Moreover, Guanhua maintains meticulous management of mold storage and maintenance. Molds of the same type are organized in designated areas and recorded according to drawing specifications. With over 2,000 molds in use, the typical development time for a new mold is approximately one and a half months, based on our extensive experience.



Products

Factory

Switch

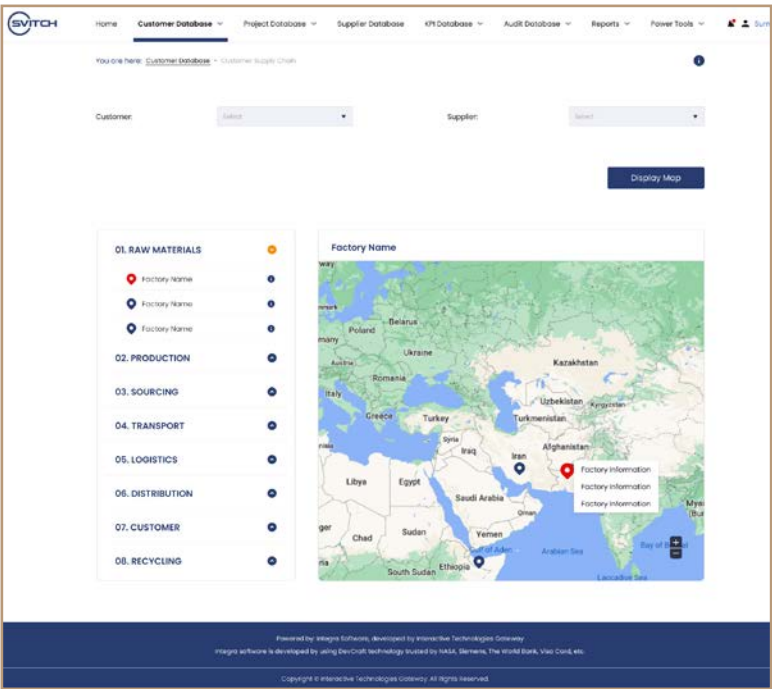
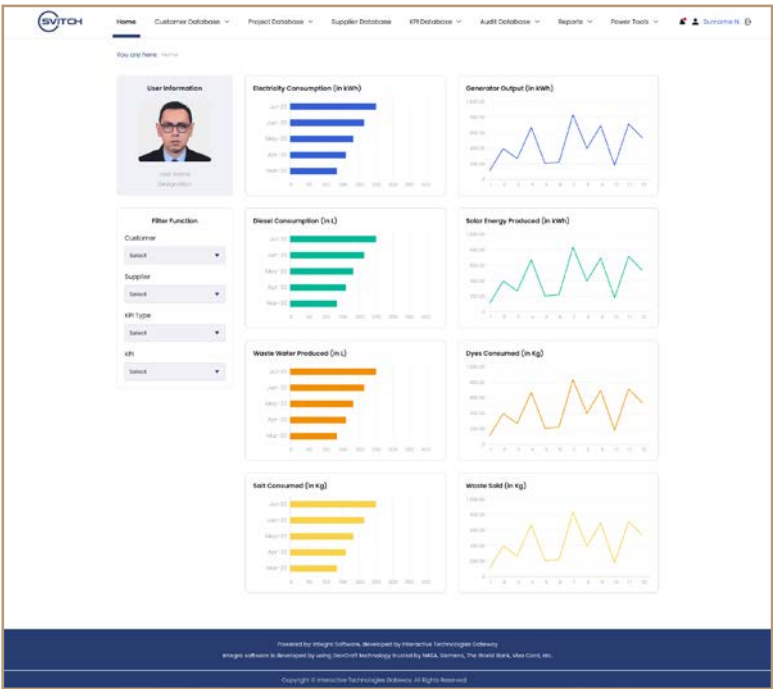


# Software



# Switch:

## Technology Driven Supply Chain Solutions



### What is Switch?

Switch is our cloud-based communication platform and database tool to create transparency and manage orders and data of any complex supply chains. It establishes channels of communication throughout the entire supply chain and allows easy data gathering through freely definable order- and quality management processes, questionnaires, document management and more. Collected data is further analyzed and summarised in automatically generated reports to be used internally, or employed as an effective marketing tool to support your customers.

- Transparency and Communication Module
- Law into Action

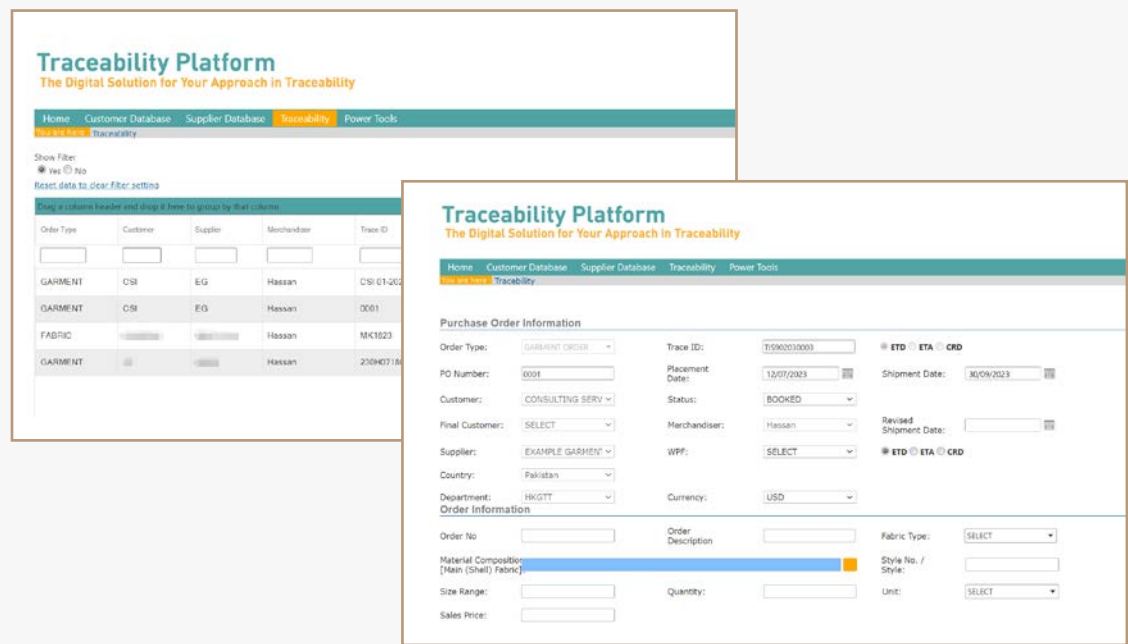
- Documentation Module
- Audit and Corrective Action Module
- KPI Monitoring and Analytics Module
- Traceability Module
- Order Management Module
- Quality Control Module
- Marketing Module, including Digital Showroom

With its different modules, Switch allows for the proactive management of orders covering all aspects including compliance and liabilities along global supply chains.

Switch

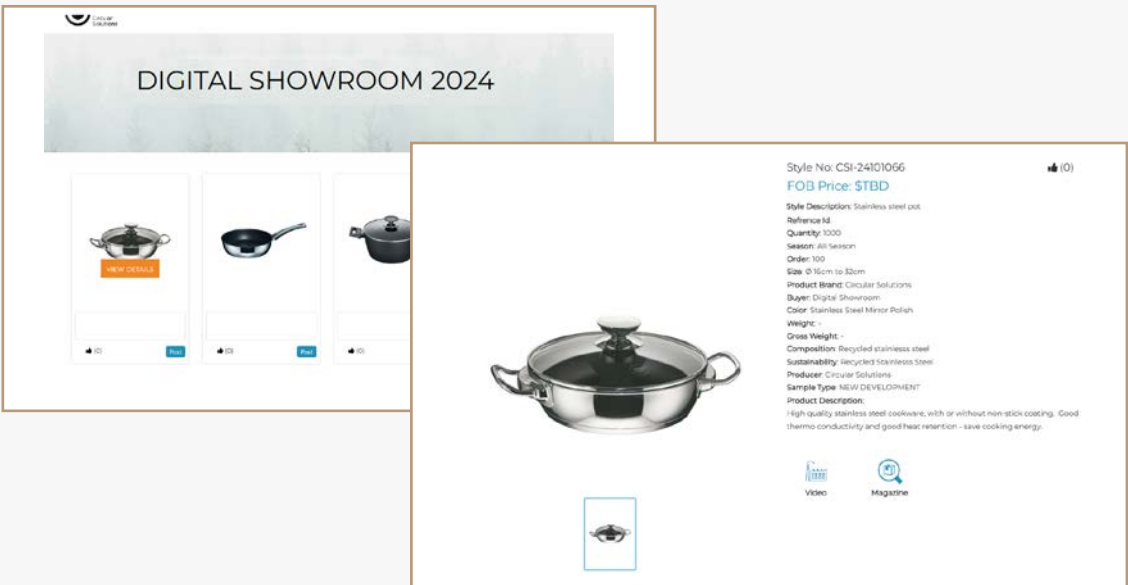
Traceability Module

- The Traceability Module provides a comprehensive overview of the supply chain, tracing the journey from raw materials to final products.



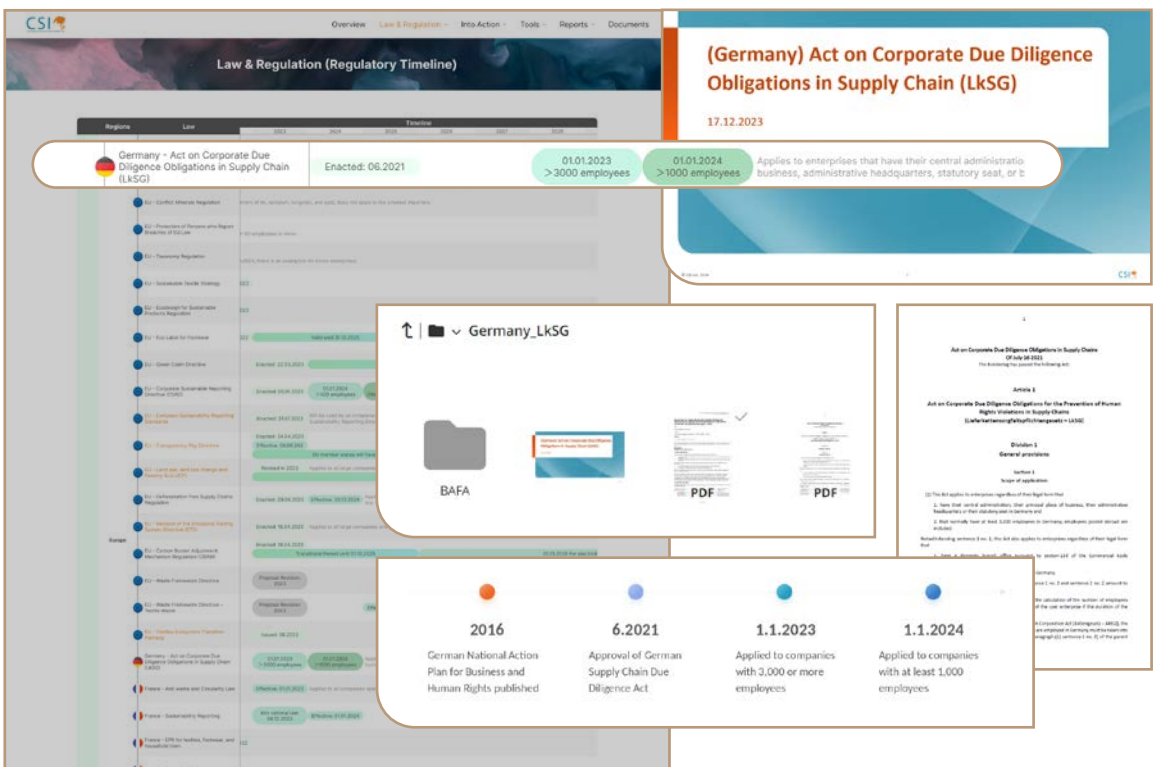
Digital Showroom

- The digital showroom is a product communication platform, it offers the possibility to pro-actively showcase new products or ideas with 3D scans, photos, and other media in the cloud.



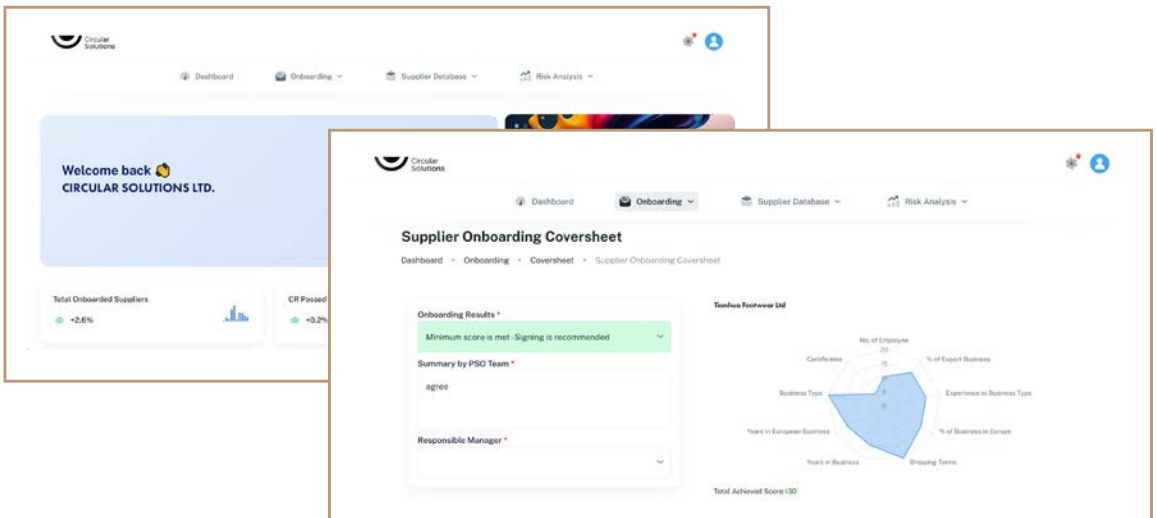
Law into Action

- Stay ahead of the curve with our innovative tool that brings together ESG laws and regulations from countries and organisations around the world.



Customization

- Whether it's enhancing transparency and communication, managing compliance, or supporting marketing efforts, Switch provides personalized solutions.







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