

New-Gen Textile Materials

Pioneering a New Era of Cross -Industry Collaboration

Tangshan Sanyou Group

Neo Wang

01 Origin:

Pioneering a New Paradigm of Cooperation



Tangshan Sanyou Viscose



Tangshan Sanyou Group is state-owned enterprise with 27 subsidiary companies and more than 20,000 employees. We have four main business sectors : viscose fiber, soda ash, chlor-alkali, and silicone.

Our fiber company started operation in 1998. We have won multiple green titles such as "National Green Factory" and "National Circular Economy Demonstration Unit" and hold over 140 patents. We have deployed 11 product lines, 2 pilot lines, and 2 viscose tow lines □ total annual capacity 830,000 tons, covering three generations of products—Conventional fiber, modal, and lyocell—totally over 100 detailed varieties, highlighting our advantages in differentiation, high-end positioning, and large-scale production.



Circulose

Circulose is a Swedish sustainable technology company, formerly known as Renewcell (founded in 2012). Its aims to drive the fashion industry toward a "closed-loop cycle" through technological innovation and reshape resource utilization models..

With breakthrough recycling technology and sustainable practices, it has garnered extensive international recognition—including being named one of the world's most innovative companies by Fast Company in 2021. The company produces CIRCULOSE® pulp from 100% recycled cotton textiles, with an annual capacity of 60,000 tons.

Sanyou -Circulose Cooperation Journey



三友化纤
Sanyou Viscose



CIRCULOSE®

Fiber made with 30% CIRCULOSE® pulp content achieved stable, continuous production— Sanyou name it as Revisco fiber.

The capacity of Revisco fiber was ramped up to 40,000 tons/year. Its performance metrics now match the premium grade of conventional viscose fibers, and Sanyou has also successfully developed 50% Revisco fiber and Revisco Modal. Later, leveraging dope-dyed technology, we developed black color Revisco fiber and gradually extended to multi-color options, catering to diverse market demands.

2018

Sanyou and Renewcell reached an initial cooperation agreement.



2019

After multiple experiments, recycled fiber meeting the standards were successfully mass-produced.



2020

Limited-edition apparel, as part of H&M's Spring/Summer Conscious Collection, made its debut at H&M stores.



2022

Along with 4 years of dedicated effort, through technology breakthrough, production efficiency enhancement, production line transformation, we successfully achieved large-scale producing.



02 Achievement:

Next Gen





Recycled Fiber ReVisco™

ReVisco™ viscose

- 30 % / 50 % ReVisco™ made with CIRCULOSE®
- ReVisco™ Black made with CIRCULOSE®

**NEXT
GEN
NOW!**
canopy

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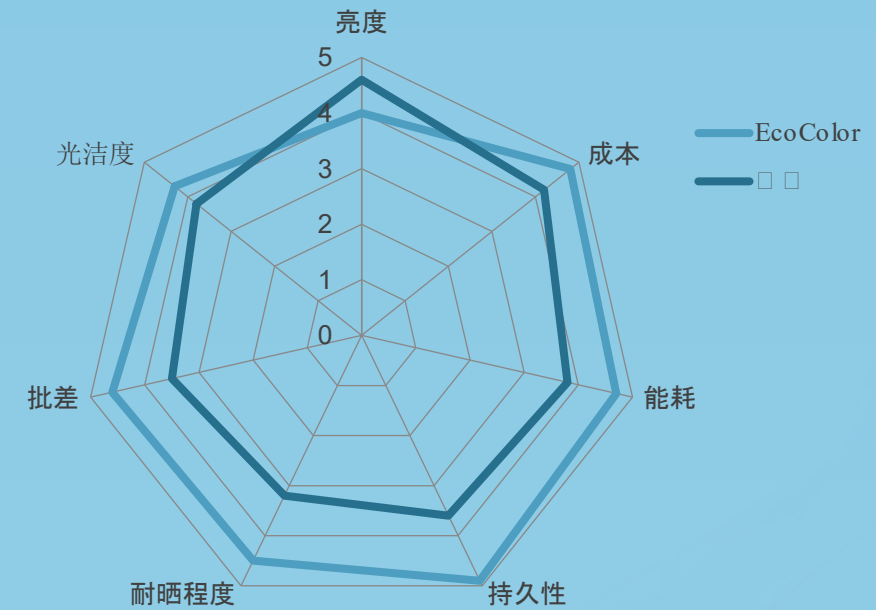
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Recycled Fiber ReVisco™



Black ReVisco™

Dyeing fiber



Industrial Chain
Shortening

03 Review:

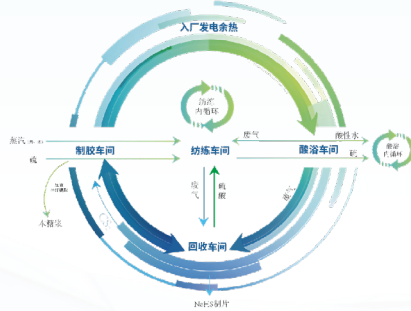
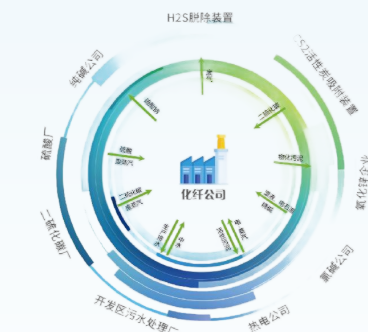
Decoding the Path to Success



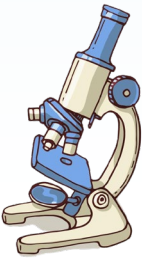
Sustainable
Forest Resources



Green
Production Process



Excellent Chemical
Control



Traceability



Biodegradabl

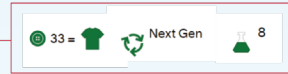


Sustainable System



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Producer	Global Volume	Net Button Score (out of 40)	Risk Status	Next Gen Solutions	Products	Uses non-toxic materials	Chem. Mgmt
Aditya Birla (The Aditya Birla Group owner of Grasim Industries and Birla Cellulose)	14.62%	33	Low Risk	Next Gen	VSF / Rayon, Lycell, VFY	Yes	6
Lenzing	13.01%	35	No Known High Risk	Next Gen	Lycell, VSF / Rayon	No	7
Tangshan Sanyou	9.18%	33	No Known High Risk	Next Gen	VSF / Rayon, Lycell	Yes	8
Xinxing Chemical Fiber Co., Ltd. (Bailu Group)	1.14%	32	Low Risk	Next Gen	VFY	Yes	N/A
Yibin Grace	0.08%	32	No Known High Risk	Next Gen	VSF / Rayon, VFY	Yes	8



Canopy全球排名第一金纽扣
化学品满分 nextGen9.5最高分



PRODUCT CLASS
I (baby articles) - Annex 6

产品达到STANDARD 100 by OEKO-TEX®
I 级婴幼儿类产品要求

26.05.2025

在全球率先取得
ZDHC MMCF 2.2版本高阶证书



针对以上产品进行的生命周期评价
(Life Cycle Assessment, 报告号: LCA2023/C/0807)
依据的是 ISO14040:2006 环境管理 - 生命周期评价 - 原则与框架
ISO14044:2006 环境管理 - 生命周期评价 - 要求与指南

产品唐丝™EcoTang™、唐丝™环保彩纤
EcoColor完成生命周期评估 (LCA)
并在Worldly网站披露碳足迹信息

These are not just certificates—they
are the most powerful language
and passport for us in
industry collaboration.

(6) Plant Performance Comparison with EU BAT Limits					
粘胶短纤生产绩效数据与 EU BAT 比较					
Data Comparison 数据对比	Unit 单位	EU BAT 最佳可行技术	Compliance with EU BAT 对 EU BAT 的符合性		
			Plant 1 1号厂	Plant 2 2号厂	Plant 3 3号厂
Energy Intensity 能耗强度	kg/Mt*	20 - 30	✓	✓	✓
Pulp MW 浆粕消耗量	kg/Mt	1,025-1,065	✓	✓	✓
Na2SO3 亚硫酸钠	kg/Mt	0.6 - 0.8	✓	✓	✓
NaOH 液碱用量	kg/Mt	0.4 - 0.6	✓	✓	✓
CS2 二硫化碳	kg/Mt	80 - 100	✓	✓	✓
CO2 总负荷 CO2 总负荷 **	kg CO2/MTP	3 - 5	✓	✓	✓
Dr. 耗碱	kg/Mt	2 - 10	✓	✓	✓
Process Water 工艺用水	kg/Mt*	35 - 70	✓	✓	✓
Gas to Air 废气中粉尘	kg/Mt	12 - 20	✓	✓	✓
Spin Finish 纺纱油剂用量	kg/Mt	3 - 5	✓	✓	✓
NaOCl 次氯酸钠	kg/Mt	0 - 50	✓	✓	✓
Cooling Water 冷却水	kg/Mt*	180 - 260	✓	✓	✓
Sulfate Ion (SO4 ²⁻) 废水硫酸根含量	kg/Mt	200 - 300	✓	✓	✓
SS in wastewater 废水悬浮物 **	kg/Mt	10 - 50	✓	✓	✓
Hazardous Waste 危险废物	kg/Mt	0.2 - 2.0	✓	✓	✓
废水 综合 **	kg	50 - 70	✓	✓	✓

* - Energy, water & cooling water are calculated based on the scalar quantity of fibre (1.67 dm³ and 1.68 t, 0.9 t and 1.3 dm³ are used for 1.67 dm³ and 1.68 t) (1.68 t)

** Plant 2 and Plant 3 share one WTP and one storage for hazardous waste.

二厂和三厂共用一个污水处理站和一个危废库。

EU BAT 最佳可用技术	Compliance with EU BAT 对 EU BAT 的符合性		
	Plant 1 1号厂	Plant 2 2号厂	Plant 3 3号厂

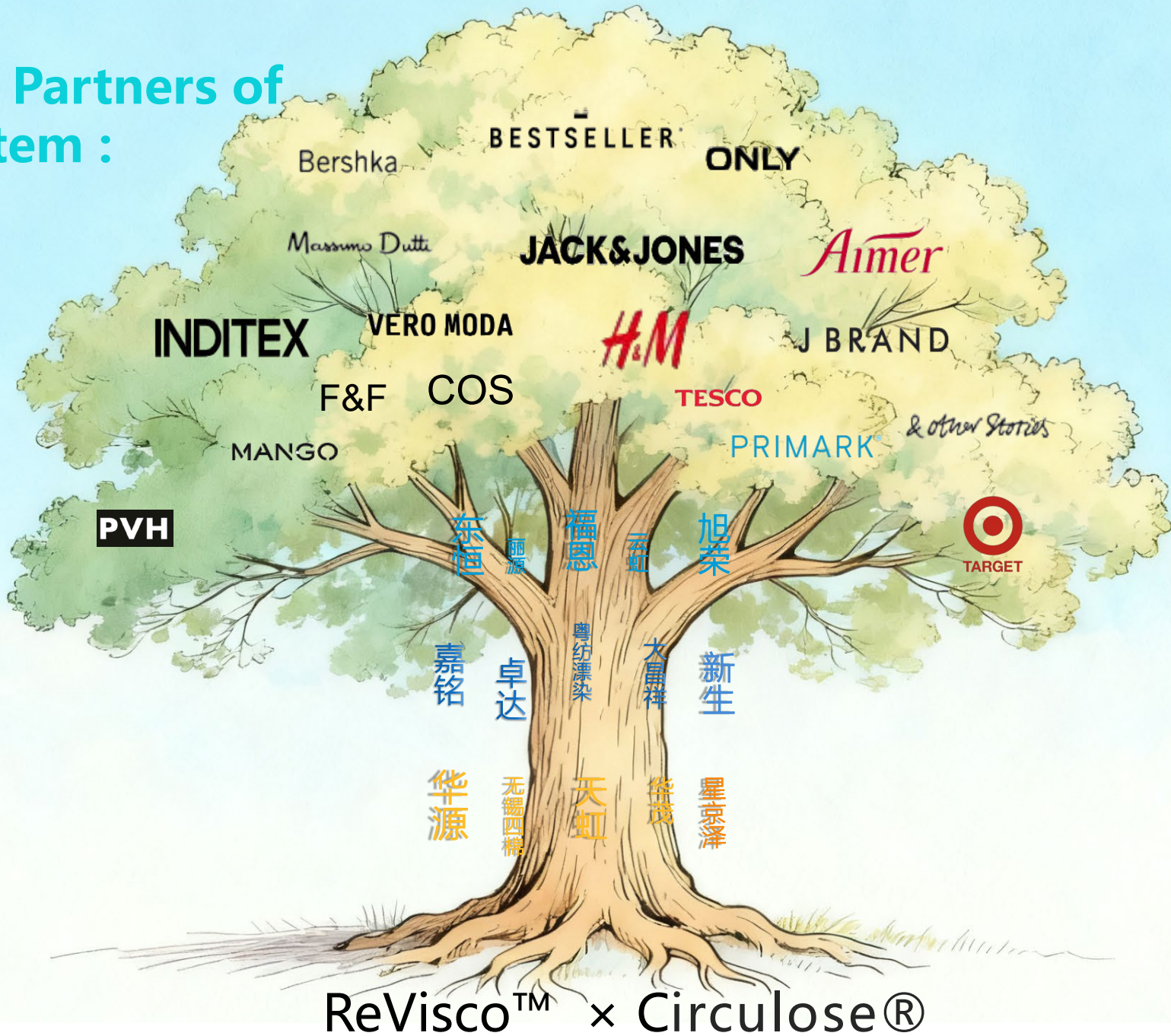
2019年通过了EU BAT审核, 2023年第二次
通过并获得Eu-bat 16项全项审核通过

* Energy, water & cooling water are calculated based on the scalar quantity of fibre (3.67 dwt).
能耗、水和冷却水消耗量均按单位重量 (3.67 dwt) 计算。
** Plant 2 and plant 3 share one ETP and one storage for hazardous waste.
2号厂和3号厂共用一个污水处理站和一个危废库。

04Development:

Our New Ecosystem

TANGCELL™ Partners of
New Ecosystem :



TangCell Partners

Currently, Revisco has partnered with nearly 40 brands including H&M and Inditex, with its products used in over 550 clothing items. This has helped build an ecosystem of more than 130 partners across the entire textile chain of spinning, weaving, dyeing, and garment production .

INDITEX	Levi's	SEPTWOLVES	ZARA	YUYLE 俞悦	OTTO	TESCO	Tommy Hilfiger	JACK & JONES	IKEA	PVH
MOSCHINO	MaxMara	ESPRIT	UNIQLO	PRIMARK	MERCURY 水星家纺	COCHIO 蔻奇奥	M&S	Massimo Dutti	maje	MONKI
H&M 红豆	KOHL'S	H&M	PULL&BEAR	MQ MARGOT	Desigual	RALPH LAUREN	TARGET	Stradivarius	AGATHA	TDK
OVS	Calvin Klein	Kappahl	MANGO	& other stories	Etam	Sainsbury's	Fashion Cube	BRÉAL 斐	Bamboo Basics	MOS MOSH
COS	Bershka	GANNI	NEXT	SHEIN	LA HALLE	BAM	COTTON:ON	promod	GAMZE TRIKO	RiverIsland
VARNER	orsay	HUMMER DENIM	BEST & FRIENDS	TU	F&F	AMERICAN EAGLE	CLEO	LPP	P.L.N.	FRENCH CONNECTION
ARKET	boohoo	OYSTIO	COACH	NEW LOOK	Filippa K	LOFT	Reformation	Agatha Garcia	RENNER	ZEEMAN
Maison Martin Margiela	TJ-maxx	FRENCH CONNECTION	ONLY	RIVER ISLAND	very	BASS & CO	GANT	VERO MODA	Sonae	SELECTED

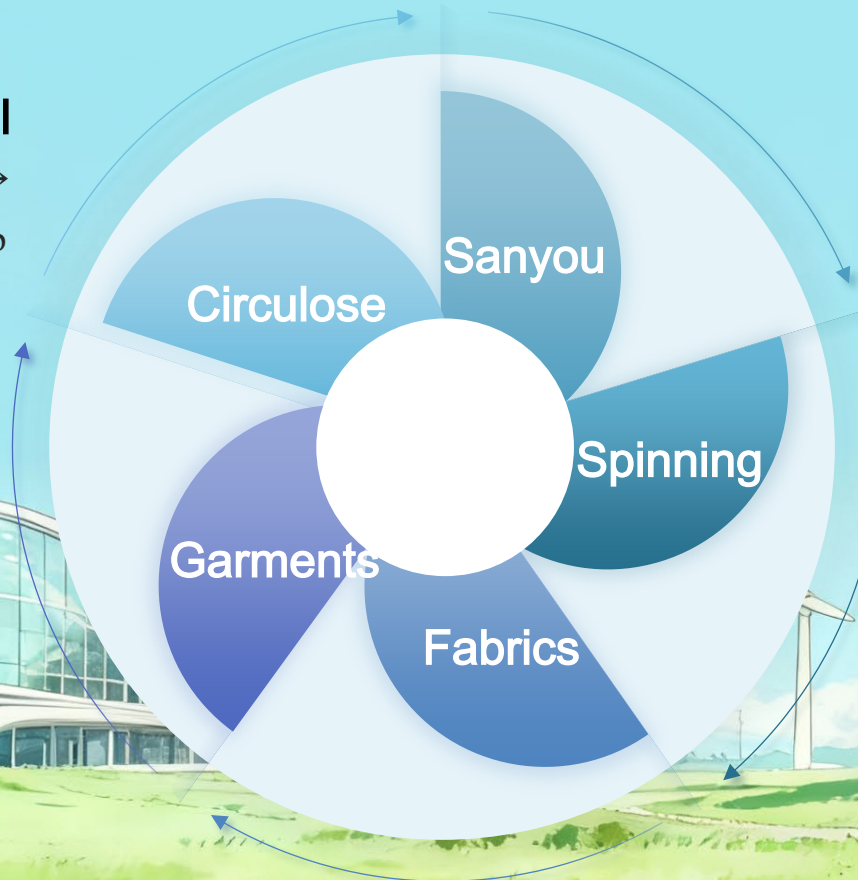
New Paradigm of Collaboration

This is just the
beginning.

**Enhance the cooperation
level**

Transactional Relationship →
Partnership

**Collaborate with upstream
and downstream brands**
Restructure the Industrial Chain



Resource Interconnection

Ecosystem with Shared Market
Information

More.....

Green Practice

Deliver Sustainable Solutions

Prosper Together: Choose TangCell™, Unlock Greater Potential

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