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Towards Closed-Loop, Circular and Climate-Positive Cellulosic Fibres

US\$200 MILLION INVESTMENT IN R&D

"Scale is key. We have an ever-growing number of very promising pilots with the potential to make a lasting difference..."

For transformative impact, we need to move urgently from niche to mass."

- Bey Soo Khiang, RGE Vice-Chairman at Textile Exchange Sustainability Conference 2019, Vancouver, Canada



"Sateri is proud to be part of this long-term commitment that RGE has made. We look forward to supporting and scaling up solutions that can help Sateri produce even more sustainably and deliver high quality and affordable products to our customers."

- Allen Zhang, President, Sateri



L to R:

La Rhea Pepper (MD, Textile Exchange), Dr Sally Uren (CE, Forum for the Future), Petri Alava (CEO, Infiniti Fibre Company), Emily Franklin (Analyst, Fashion for Good), Erik Solheim (Former ED, UN Environment Programme), Bey Soo Khiang (Vice-Chairman, RGE)

Sateri is part of the RGE group of companies that has invested US\$200 million over the next 10 years in next-generation textile fibre innovation.

The target allocation for the investment is 70:20:10 in three areas, respectively: scaling up proven clean technology in fibre manufacturing, bringing pilot scale production to commercial scale, and R&D in emerging frontier solutions.

The investment responds to two pressing environmental challenges facing the industry: increase in demand for both synthetic and natural fibres for textile production as well as increase in textile waste. Recycled textile waste as a feedstock tackles both issues simultaneously.

Being part of the RGE group of companies (which occupies a strategic position in the upstream textile value chain from renewable plantations to yarn) means Sateri can harness the advantages of scale, product quality assurance, supply stability, and traceability.

Most importantly, the integrated value chain allows us to pool knowledge, and embark on practical collaboration to jointly pursue technology-based solutions for the industry.

Right: Oil palm biomass, a potential feedstock to produce dissolving pulp



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"Infiniti Fiber technology fits perfectly in RGE's shift for using alternative feedstocks. Our ability to use a diverse range of feedstock, especially mixed textile fibres, is a technological breakthrough, and as RGE's strategic partner we look forward to support their change."

Petri Alava, CEO of IFC.

"We are very happy about adding Sateri, a world-leading fibre producer, to our group of validation partners for scaling up circular raw materials for fashion. Cooperation between many actors in the value chain is crucial to achieve significant positive impact in this industry,"

Patrik Lundström, CEO at re:newcell.

"As the world's largest viscose producer, RGE is uniquely positioned to implement and scale our innovators' solutions across its global portfolio. There is a huge opportunity to innovate in the area of next-generation fibre solutions. The potential for change is enormous,"

Katrin Ley, Managing Director, Fashion for Good.

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Action Plan in Response to Canopy's Hot Button Report Assessment

Following extensive dialogue with Canopy, Sateri has adopted a prioritised action plan with the goal of addressing pulp sourcing issues raised in the 2018 Hot Button Report and CanopyStyle audit.

The five key action areas are:

- Advancing next-generation fibre solutions
- Supporting the protection and conservation of Leuser Ecosystem
- Improving corporate transparency
- Addressing social and environmental issues
- Peatland operations

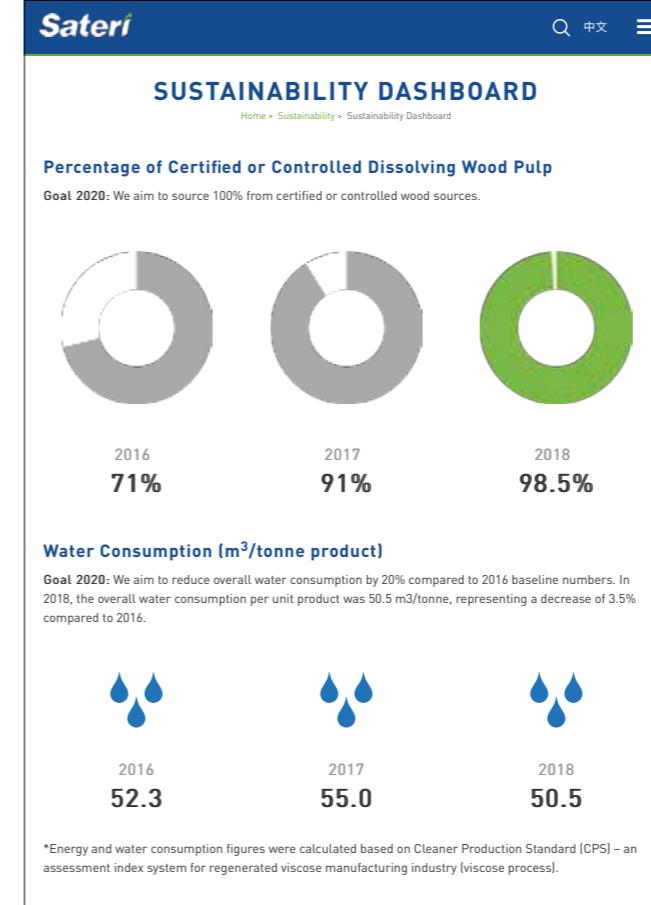
Sateri welcomes the opportunity to work with Canopy and our strategic supplier, APRIL. We are pleased with the progress made to date and look forward to providing updates.



We take this effort very seriously and have worked extensively over the past few months with APRIL to begin implementing key elements of this action plan.

2018 Sustainability Report, Online Sustainability Dashboard Launched

Sateri has continued to strengthen our sustainability performance, inching closer to meeting our 2020 sustainability goals which cover areas such as responsible sourcing, energy efficiency and cleaner production.



Top: Third edition of Sateri's Sustainability Report is available on www.sateri.com



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Key achievements and milestones in 2018 include:

- increase in certified/responsibly sourced raw material (dissolving woodpulp) from 91% to 98.5%
- higher chemical (carbon disulphide) recovery rate at 98%, compared to 96% in 2017
- substantial reduction in key emission parameters, such as Chemical Oxygen Demand (COD), Sulphur Dioxide (SO₂), and Nitrogen Oxide (NO_x).

As part of Sateri's commitment to transparency and accountability, we have developed a sustainability dashboard on our website to provide regular updates on our performance in key environmental parameters, enabling stakeholders to track our progress towards our commitments. The dashboard is a work-in-progress and will be continuously improved.

Top: Sustainability Dashboard is available on www.sateri.com

Climate Leadership Programme

Launched in collaboration with China National Textile and Apparel Council (CNTAC) - a signatory of the United Nations Fashion Industry Charter for Climate Action 2030 - to reduce carbon emissions by 30% by 2030 in the textile value chain.



**Jun - Jul
2019**

OFFICIAL LAUNCH AND
PREPARATION WORK

Launched 'Climate Leadership Programme' to support CNTAC's 'Carbon Stewardship 2030' initiative. Together with programme partners, work plan formulation and target setting commenced.



**Aug
2019**

LOW-CARBON
TECHNICAL WORKSHOP

Conducted low-carbon technical workshop for 8 of our supply partners to share knowledge and build consensus on ways to lower carbon emissions in the textile industry. Another workshop will be conducted in December.



**Sep
2019**

FASHION CLIMATE
INNOVATION
SPECIAL FUND

Founded the inaugural 'Fashion Climate Innovation Special Fund' along with 6 other members during the Climate & Innovation x Fashion Summit held in Beijing, where Sateri was also a keynote speaker. This initial RMB 2 million Fund will enable green transformation of the fashion industry.



**Oct - Nov
2019**

FIELD WORK AND
RESEARCH STUDY

Conducted an 'Experts Peer Review' session to discuss product level carbon footprint and whitepaper conceptualisation. Field work and research study were carried out to determine the impacts of various textile raw materials on greenhouse gas emissions.

**Dec
2019**

WHITEPAPER AT
UNFCCC COP25

Publish a whitepaper on the GHG accounting method at the UNFCCC COP 25 in Spain, using data provided by our yarn and fabric partners.



OUT AND ABOUT

Inaugural "Brands Visit" to Pangkalan Kerinci, Riau, Indonesia

3D2N visit to the conservation site and operations of Sateri's strategic supply partner, APRIL.





Top: APRIL's nursery, where more than 200 million seedlings are grown each year. Each seedling has the potential to transform into a full-grown tree in less than 5 years, before it is ready to be harvested as raw materials for dissolving pulp production.



Left: Boat ride along Serkap river within the Restorasi Ekosistem Riau (RER) site where various animals like monkeys, hornbills and monitor lizards were sighted!



Left: An aerial view of RER, APRIL's flagship conservation site spanning 150,000 hectares. Sateri supports and contributes to the RER project.

A three-day visit in September gave 12 of our brand partners the unique immersive experience of an integrated viscose value chain, starting from the place where it all begins.

APRIL supplies 40% of the dissolving pulp Sateri uses. Sateri and APRIL are part of Singapore-based RGE group. Being part of the same group

means we know the fibre origins and are able to innovate in a close supply partnership with APRIL.

The brands' visit programme is part of Sateri's effort to better understand our partners' needs and interests so as to continuously improve our products, add value, and maintain industry relevance.

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It was a great experience for me because I now know the entire supply chain from wood to viscose yarn and I am proud to use viscose in our products.

- Yoshikawa, Sustainability Manager, Uniqlo

It was an eye-opening experience for me. I have never seen such detailed and robust sustainability efforts in this industry.

- Ge Wu Di, General Manager, Goodio

I am really thankful for this opportunity. I now know the viscose upstream processes much better and this helps me make my decisions better in the future.

- Andy Wang, General Manager, Lafuma





Clockwise from top-left: Copenhagen Fashion Summit, 15-16 May; Paris Premiere Vision, 17-19 September; Shanghai Intertextile, 25-27 September (last two images)

Facing page, from top to bottom: Textile Exchange Sustainability Conference, Vancouver, 16-17 October; La Rhea Pepper (MD, Textile Exchange) and Erik Solheim (Former ED, UN Environment Programme)

Happenings in Our Mills



Top: Sateri (Jiangsu), our fourth viscose mill, officially opened on 9 May 2019 in the city of Suqian in Jiangsu province. Upon completion of expansion, the mill will have an annual production capacity of 300,000 MT by the end of 2019.



Bottom: Sateri (China), our fifth viscose mill, located in the city of Jiujiang, Jiangxi province, aims to commence operations in end 2019. The mill will have an annual production capacity of 300,000 MT.

As part of our inaugural 'Founder's Day' in August, hundreds of Sateri employees from our mills and offices across China spent a meaningful day dedicated to community service activities.

Teams of staff volunteers helped to spread environmental protection messages and picked up plastic bottles, cigarette butts and other litter in public areas such as Mount Lushan in Jiujiang and Dongchang Riverfront Garden in Shanghai.

Another group of staff volunteers presented the Sateri Education Fund to underprivileged students living in villages near our mills.





**WE'VE DONE THE MATH
TO CONSERVE THE
ENVIRONMENT**

1-FOR-1 COMMITMENT

We're in the business of sustainable forestry, so we've pledged to conserve one hectare of forest for every hectare of sustainably managed plantation in Indonesia. We are **83%** of the way there – that's **370,000** hectares of forest protected, almost five times the size of New York City.

Action speaks louder than commitments.

Find out more: www.aprilasia.com

[APRILpulp](#) [Discover APRIL](#) [sahabat RAPP](#) [SahabatRAPP](#)



Restorasi Ekosistem Riau (RER)

An eco-restoration and conservation programme by APRIL

Restorasi Ekosistem Riau (RER) is a conservation initiative by Sateri's strategic supply partner, APRIL.

A 150,000-hectare conservation site in Sumatra, Indonesia, RER is home to hundreds of species of plant and animal wildlife, including critically endangered ones. It also represents one of the last and largest remaining tropical peat forests that stores vast amounts of carbon.

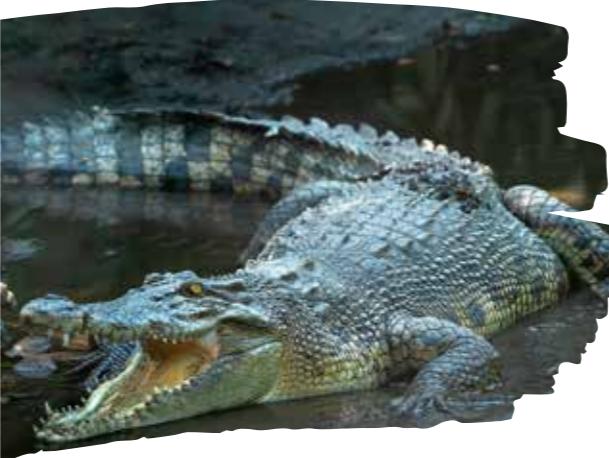
RER demonstrates the viability of a production-protection model that supports socio-economic development and conservation. RER is ring-fenced by renewable plantations to deter illegal logging and land encroachment while communities join in the partnership to use natural resources responsibly. In 2015, APRIL pledged US\$100 million over 10 years to support RER.

www.rekoforest.org



759

Total number of plant and animal species



71

MAMMALS

107

AMPHIBIANS & REPTILES

304

BIRDS

119

TREE SPECIES



89

FISH SPECIES

69

NON-TREE SPECIES



48

critically-endangered species including sumatran tigers and pangolins



EcoCosy® Antibacterial



优可丝®安泰贝®抗菌纤维

EcoCosy® Antibacterial Viscose



活性注入, 均匀分布; 有效抑菌, 更加持久

Active Injection & Dispersion; Excellent Antibacterial Effect & Durability

减除异味, 保持清新

Deodorant, Keep Fresh

可纺性优异, 应用领域宽泛

Excellent Spinability with Diversified Applications

与不同纤维混纺, 抗菌性能依然表现良好

The Antibacterial Effect Remains Excellent when Blended with Different Fibre

注: 根据测试, 安泰贝™纤维在水洗 50 次后仍保持极佳的抗菌性

Remark: According to laboratory tests, Sateri Antibacterial Fibre maintains its optimal antibacterial properties having been rinsed 50 times.

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