



WWF's programme in China is focused on influencing the national level and Yangtze region by targeting sector transformation, delivering conservation outcomes in priority ecosystems and demonstrating the business benefits of impact reduction activities.

Covering an area of 2,338 km² (almost the same size as the state of Luxembourg), Lake Tai is the third largest freshwater lake in China. Densely populated and economically developed, the lake borders Jiangsu and Zhejiang provinces, and provides water to 30 million residents (equivalent to 4.4% of China's total population) and contributes 9.8% to the country's GDP.

Country	China	
Region	Taihu Basin	
Population	n 30 million	
Area of Taihu Lake	2,338 km ²	
Area of Taihu Lake Basin	36,900 km ²	

TEXTILE SECTOR

Around 70% of the global textile supply chain is located in China, Southeast Asia, and South Asia, and the textile sector is critical to China's economy bringing in US\$1 trillion per year. China accounts for 58% of global fiber processing. China's textile exports contribute to 25% of the country's total exports and are valued at US\$29 billion.

China's textile industry withdraws over 3 trillion litres of water, accounting for 8% of the country's total industrial water withdrawals and making it the fourth largest industrial water user. Since the 1970s, the annual discharge of industrial effluent into the Yangtze has increased three-fold, discharging more than 30 billion tonnes per year.

With more than 50 national and province level industrial parks, Taihu Lake Basin is home to 37% of China's textile production – along with 23% of its electronic production and 8% of its chemical production.

Hundreds of international and domestic brands are headquartered or source their products from the region, nearly 10,000 textile printing and dyeing facilities are also based within Jiangsu Province alone. Most of these facilities are small and medium enterprises located within industrial parks or clusters.

Agricultural runoff, intensive livestock and intensive aquaculture are large polluters in Taihu. In the last 20 years, the amount of agriculture land area has been significantly reduced due to rapid expansion of industrial and populated areas which also contributes to the pollution of the basin.

Wastewater discharge from the textile sector accounts for a relevant amount of the total wastewater and the hazardous components discharged.

Potential Impacts from the Sector

In response to the 2007 algae bloom, "The Taihu Regulation" was published restricting technological upgrades and expansion for certain industries, including the printing and dyeing industries. These regulations serve as a barrier to expansion of industries. Despite the changes in legislation, challenges still remain and government is looking for alternative solutions such as stewardship.

Responsibility for the management of water resources and pollution is divided between different regulatory boards, government agencies and different provinces in the Taihu Region.

Businesses that are not prepared to comply with increasingly more stringent regulations aimed at addressing environmental challenges, are in risk of losing their license to operate.

A great number of multi-national brands and leading state-owned enterprises operate in the basin. In the past 30 years, expansion in the size, production capacity and water demand/pollution of businesses has created high operational and reputational risks.

PROJECT INFORMATION

WWF PROGRAMME VISION

By 2030, prioritized sectors are working collectively to improve the health of freshwater ecosystems and drive better water governance in key basins, such as Taihu, for a living Yangtze, and introduce best practice in WWF priority basins.

MULTI-LEVEL ENGAGEMENT ON TEXTILES COLLECTIVE ACTION Improved governance in the sector Green technologies and National level at national level and through the Belt standards promotion and Road Initiative (BRI) Basin transparency and Sub-basin level Collective action in key basins Reduce shared stakeholder roundtable water risks for business, Industrial Park (IP) sustainable ecosystem and communities IP-level transformation within China and Awareness raising other countries Capacity building Best practices sharing Guidelines development Water stewardship training Site level and transformation of the sector

WATER STEWARDSHIP PROGRAMME MILESTONES 2011—2019



MAJOR NATIONAL. REGIONAL AND LOCAL PARTNERS IN CHINA

China National Institute of Standardization (CNIS) • China National Textile and Apparel Council (CNTAC) • Policy Research Center for Environment and Economy (PRCEE), Ministry of Ecology and Environment (MEE) • Langcang-Mekong Environment Cooperation Centre (MEE ASEAN) • Jiangsu Development and Reform Commission (JDRC) • Jiangsu Engineering Consulting Center (JECC) • Donghua University • Hohai University • Shanghai Academy of Social Sciences (SASS) • Tongji University • Tsinghua University

ACTIVITIES

Level of work	2020 Objectives	Activities	Key Performance Indicators
Site/Facility Awareness and Knowledge of Impact	Corporates understand and act on their shared water risks and have reduced the impacts of their activities on freshwater ecosystems.	Through the use of the app and in-person trainings, site/facility understands water stewardship and make changes/improvements suitable to their conditions.	No. of suppliers registered in the APP.No. of suppliers participating in physical training.
Industrial Park Collective Action	Two pilot Industrial Parks (IPs) are implementing and promoting the IP Water Stewardship Guidance, and contributing demonstration projects to the national Eco-IP Initiative.	IP water management training is building capacity through a package of resources to support WS implementation. Scale best practice and experience to BRI countries.	 Completion of Guidance for WS implementation at the IP level. Capturing IP best practice across China.
Sub-basin Taihu Basin Collective Action	The Roundtable for multi- stakeholder dialogue is created and operated for better Taihu governance.	Multi-stakeholder basin governance model facilitated by the Taihu International Forum as well as regular meetings with relevant stakeholders in working groups.	 Number of recommen- dation reports submitted to government decision makers.
National level-Policy Multiplication	Water stewardship practices and mechanisms are scaled to improve national textiles standards and are being applied in other countries.	Build partnerships with strategic policy- makers and provide support and further understanding of how international best practices can be useful in the Chinese context. Share textile industry impacts and textile best practices to support a greener BRI textile sector strategy.	No. of high-level meetings with policy decision-makers.

MAIN ACHIEVEMENTS TO DATE

Case 1: Innovative Water Stewardship Trainings increase awareness and build capacity

Since 2017, annual water stewardship supplier trainings have been held for the suppliers of the partner brands. In total, more than 100 textile mills have participated. 80% of respondents reported improved awareness on business and related environmental impacts in the post-training surveys. To reach a wider group of suppliers, an online Training App, based on the annual physical training program and feedback from suppliers, was developed and launched at the 4th Taihu International Forum. CNTAC and associated experts will help drive continuous improvement of App content and App promotion into the future.

Case 2: Xixiashu Industrial Park: the case study of Weile Dyeing mill

Weile Dyeing, a small-size factory specializing in the production of polyester, knitted, printing and dyeing flannel, implemented a wide range of water stewardship practices as the internal IP pilot site. Tools were applied to establish water balance, improve water use efficiency, and reduce wastewater generation from the production. The total investment in water stewardship projects was about 1.2 million RMB (179,000 USD), and resulted in the following annual reductions and savings:



118.9 Million Litres of industrial water saved



113.7 Million Litres of wastewater reduced



3,329,000 KWH of electricity saved



Over 3 Million RMB (448,000 USD) in production cost savings

THIS PROJECT CONTRIBUTES TO THE ACHIEVEMENT OF:















BENEFITS FOR PARTNERS

1. Participation in creating multi-stakeholder solutions

Participating in multi-stakeholder work with other basin stakeholders – governments, research institutes, technology providers, and NGOs - helps mitigate the water risk within the supply chain. Textile brands can bring a valuble viewpoint and leverage on their business partners and stakeholders to support participation, while active engagement ensures brands viewpoints are represented in these processes.

2. Support for Suppliers

Annual trainings are organized for suppliers of participating partner brands helping sites increase their knowledge of water risks, regulatory changes and impact reduction opportunities. Suppliers are also included in all multistakeholder workstreams to include their viewpoints into IP, regional and national planning processes.

3. Benefits for Brands

Participating brands get a better understanding of the water risks that their supply chains face in the Taihu basin. Briefings and expert updates are provided on changing policy and business landscape within China, including policy shifts affecting production and sales. This helps mitigate their supply chain water risk and create a healthier basin for people and nature.

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Imprint

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