



工業技術研究院

Industrial Technology
Research Institute

Industrial Technology Research Institute

Sustainable Textile, the Greener Future Starts Here

The Industrial Technology Research Institute (ITRI) launches the "2030 Technology Strategy and Roadmap" initiative (which includes "Smart Living", "Quality Health" and "Sustainable Environment") and plans the "2050 Net Zero and Sustainability" strategy as means to help Taiwan move towards the goal of "2050 net zero carbon emission" . In 2023, ITRI showcases in TITAS with the theme of " Sustainable Textile, the Greener Future Starts Here" with the following three major areas:

1. Textile Materials: Microfibers Prevention technologies ; Ecolindigo microbial indigo dye; Photoreactive purification of textiles; Upcycling Agricultural By-products; Low-carbon circular knitted textiles; Green Chemical for Sustainable Textiles; dyeable polypropylene (PP) fabric; highly rebound thermoplastic polyester elastomer (TPPE) fiber; antibacterial and antiviral fabric.
2. Recycled materials: chemical recycling of polyester; eco-friendly polyphenylene sulfide (PPS).
3. Water regeneration materials: Wastewater treatment and regeneration systems; ITRI aims to continue to diversify and innovate its technology and product portfolio, and have in-depth exchange with international industry and business partners.