

儀城企業股份有限公司

YIE-CHENG TEXTILE TECHNOLOGY CO., LTD

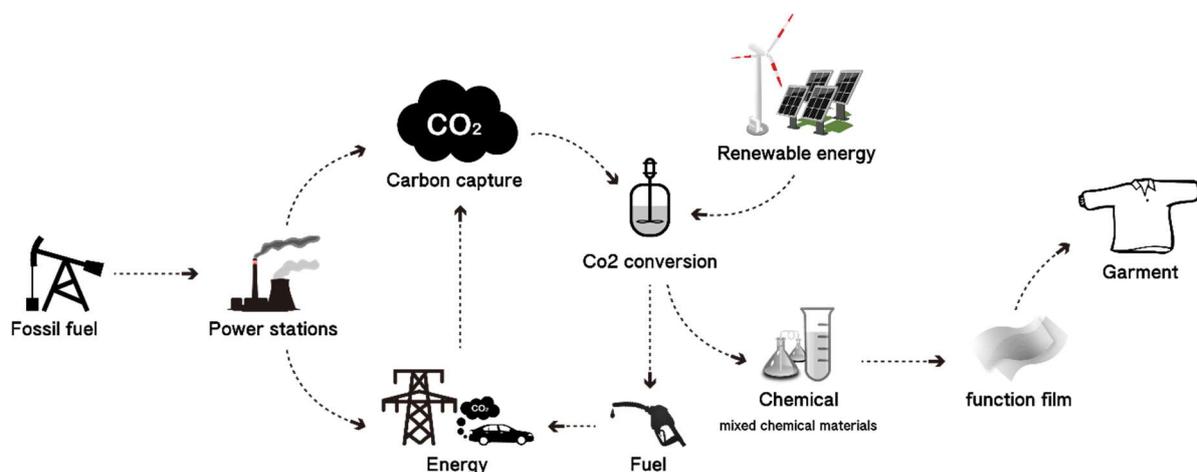
∞ PURE film 回收二氧化碳



Human activities have increased the content of greenhouse gases in the atmosphere. Due to the burning of fossil fuels, water vapor, carbon dioxide, methane and other gases, the energy is absorbed and retained by infrared radiation, resulting in an increase in global surface temperature, aggravating the greenhouse effect, causing global warming.

Reduced CO2 emission and recycling it to be our top target **NET ZERO**. Carbon capture and utilization may offer a response to the global challenge of significantly reducing greenhouse gas emissions from major stationary (industrial) emitters. CCU differs from carbon capture and storage (CCS) in that CCU does not aim nor result in permanent geological storage of carbon dioxide. Instead, CCU aims to convert the captured carbon dioxide into more valuable substances or products; such as plastics, concrete or biofuel; while retaining the carbon neutrality of the production processes.

We cooperated with **CO₂verge**[®] to get the CO₂ by CCU and manufactured the 5-12% Polycarbonate polyol to be the Polyurethane membrane. It had the perfect function with the high water resistance、water vapor permeability, keep warm, UV cut of ∞ **PURE film**



Evolution Nylon Film-Bio PA11 PA6



We cooperated with the Arkema Pebax® Rnew to develop the recycling PA11 and PA6 Polyamide function membrane. Following the Cradle to Cradle standard, reduced waste and CO2 emission, added the new polyamide chips and re-manufactured the new chips to the other product. It was got the certificate of BETA.



Developed the Polyamide (Nylon) apparel fabric, choice the dyeing and chemical. Materials of the Bluesign, PFAS free, combined the Evolution Nylon film with the good function with the high-water resistance, water vapor permeability, keep warm, UV cut of the climbing、ski and casual apparel outdoor jacket.

When recycling garments, removing the accessories made of non-nylon materials, there is no need to add chemical solvents such as acid for treatment, so as not to increase the burden on the environment and carbon dioxide emissions Nylon particles can be recycled into nylon particles only by hot melting, and the original nylon particles can be added in proportion to produce nylon yarn and related nylon products again.

