Full Recycle Technology for FRP Materials

Introduction

Facing the dilemma of the composite waste removal(12 million tons/year), ITRI has developed the comprehensive recycling technology for composite materials, which can handle the large-size CF/GF composite wastes and help industries reduce CO2 emission for 0.63/25.6 kg by applying the recycled GF/CF back to the products producing process per kg. The performance of recycled fibers remains basically unchanged and the chemicals can be recycled and reused.

Technical features

- Large waste acceptable
 Fiber and resin are recyclable
- Energy consumption 3.0 kWh/kg
- ■Recovery rate > 95%
- ■Fiber strength maintained > 95%

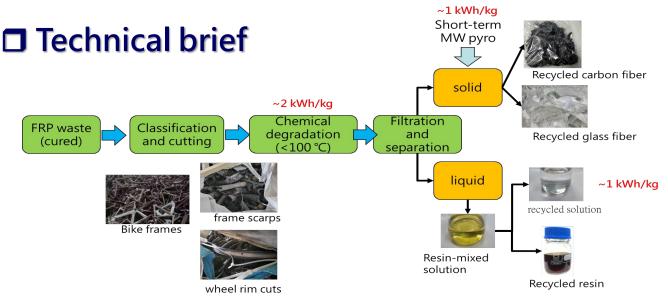
Applications



Recycled CF/GF

ITRI

Remade materials



Contact : Jih-Hsiang Yeh ; TEL : +886-3-591-5356 ; E-mail : z.s.yeh@itri.org.tw