


Elephantech

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 <https://info.elephantech.co.jp/en/p-flex-fpc>



 <https://youtu.be/6atSBDg5uGM>



01 | Company Introduction

Elephantech has achieved mass production and sales of sustainable flexible circuits for the first time in human history, using an additive process that does not use etching, which conventional FPC manufacturing methods use. Our Pure Additive™ process reduces copper consumption by 70%, carbon footprint by 75%, and water consumption by 95%.

02 | Products Details

Key Challenge -PCB industry causes a huge environmental Impact

The subtractive process, which has been the standard PCB manufacturing method for more than a century, has significant environmental impacts, including high water and rare metal consumption, as well as the generation of large amounts of wastewater and greenhouse gas emissions due to the need for copper etching to remove most of the copper layer deposited in the earlier processes.

Our Solution -Extremely Sustainable Flexible Circuits

Elephantech's Pure Additive™ process is a sustainable alternative to the conventional subtractive process used in electronics manufacturing for over a century. Elephantech's initial focus is on Flexible printed boards(FPCs) a type of PCB, a \$90 billion market that generates 0.1% of global greenhouse gas emissions and 10% of Apple's carbon footprint. In addition, the Pure Additive™ process has the potential for multiple applications in the electronics industry beyond PCBs and has the ability to significantly reduce industrial greenhouse gas emissions, making it possible to contribute to a more sustainable world.

