



**Solar Applied Materials Technology Corp.**  
**Tainan, Taiwan**

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**Presentation Title**

The Key and Solution for Sustainable Development in Industry : Recycle Wastes Into Resources via Green Process

**Abstract**

Over the past 30 years, Taiwan has made a significant progress in the industries of semiconductor and opto-electronics as well as micro-electronics in terms of business models of OEM and ODM. However, a various of electronic wastes or scrapes were also generated which have caused a different kinds of pollutions to the environments of society. The same is true in our planet when a number of electronic products are being used and discarded after the end of life in the whole world and the situation is getting worse and worse. It is reported that more than 60 million tons of electronic wastes is produced annually which are seriously contaminating and damaging our earth. As a recycler and refiner, Solar Applied Materials Technology Corp. has been developing various green technologies to recycle the valuable materials from electronic wastes to solve the issues of existing processes with cyanides or strong acids. It is believed that the circular economy developed via green process for all kinds of wastes is expected to be widely introduced and applied globally in order to transfer scraps into resources, not only for industry applications, but for environmental protection.

**Biography**

Dr. Ma received his Ph.D. in 1993 from Universität Stuttgart in Germany, with a concentration in Metallurgy. Dr. Ma was awarded with Outstanding Young Engineer Award by the Chinese Institute of Engineers for his distinguish performance and contribution at CSIST in 1997.

Responsible for sales, service, engineering and manufacturing, Dr. Ma is the President & CTO of Solar Applied Materials Technology Corp. (SAMT) from 2008~2014. As the Chairman and CEO of SAMT since 2016, Ma is now responsible for strategic planning, R&D and new product development at SAMT Group.

Before joining SAMT, Dr. Ma was President of Touch Micro-system Technology Corp. (TMT), a company specialized in Micro-electro-mechanical (MEMS) device from 2004~2007. At the same time, Dr. Ma also assisted the holding company of TMT, Walsin Lihwa, to establish an operation site in Xi-An city, centered in mid-west China. Previously, Dr. Ma was Head of Materials and Electro-Optics Research Division in CSIST, the primary research and development institute administered under the Ministry of National Defense in Taiwan from 1994~2000. During his 35-year career, Dr. Ma assisted to cultivate some key companies in fields of metallurgy and material application in Taiwan through joint development and technology transfer.

**About Solar Applied Materials Corp.**

Solar Applied Materials Technology Corp. (Solartech) was founded in 1978, Taiwan. Solartech is acknowledged as one of Taiwan's leading precious material process specialists. Combining its thirty-year precious metal management experience, Solartech devotes itself to the application of functional, environmental and energy materials. Moreover, being the world's leading Optical and Magnetic Data Storage provider, Solartech commits to customer orientation and value innovation. The portfolio of Solartech is comprised of precious metal chemicals and materials, sputter targets for thin film application, precious metal refining and alternative energy development. In recent years, Solartech further unites its cross-strait manufacture sites, global service teams and daughter companies, Forcera Materials Corp. and HtcSolar Service Ltd., to provide an "Inside Chamber Total Solution" service model to customers in Data Storage, Semiconductor and Photovoltaic industries. For more information please visit [www.solartech.com.tw](http://www.solartech.com.tw)