

# Cluster Integration

In addition to the existing optoelectronics, IC, biotechnology, precision machinery industries, the STSP Administration has been actively building industry clusters of medical device and green energy.

## Further Development of Biomedical Device Industry

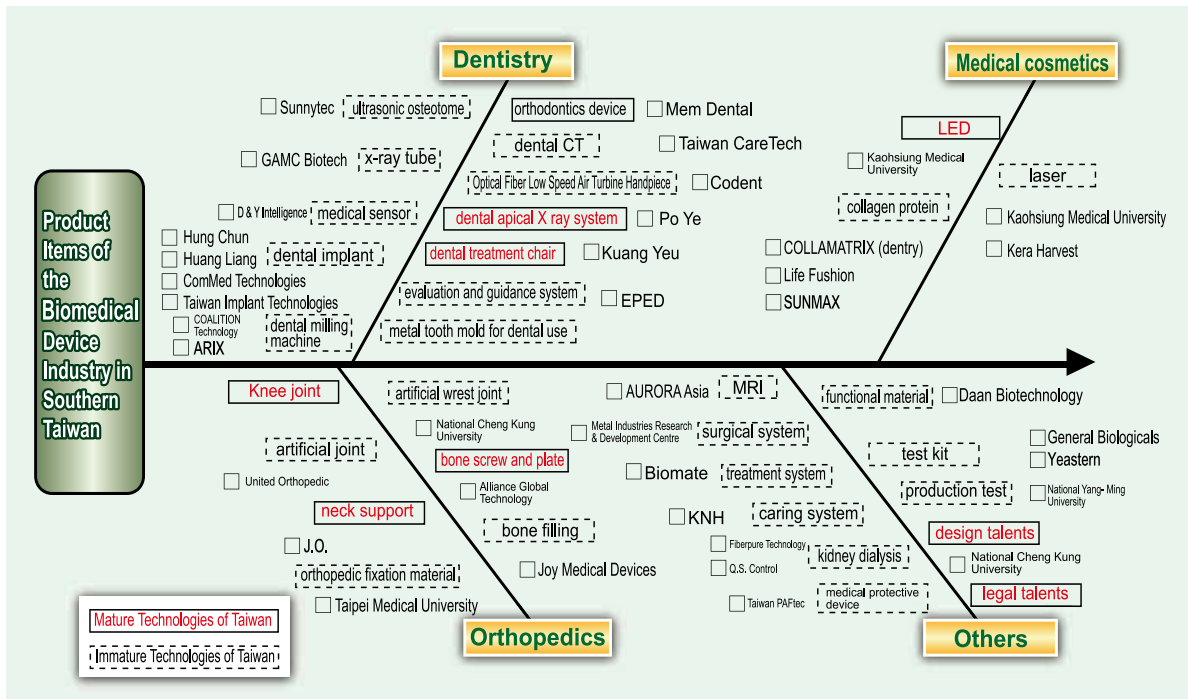
By the end of 2011, approved Park enterprises in the biotechnology industry at the STSP accumulated 47 and among them, 32 were invested through the “Southern Taiwan Biomedical Device Industrial Cluster Development Plan.”

Since 2009, the “Southern Taiwan Biomedical Device Industry cluster Development Plan” invested about NT\$1.171 billion and with expertise and experience of the industry, academia, R&D, and the medicine fields, high-end medical products and technologies for clinical medicine were co-developed to build brands and promote Taiwan’s international image. By the end of 2011, 91 projects were applied and accumulated with 75 approved with grants of NT\$950 million. At present, 32 have presented at the STSP with the approved investment amount of NT\$4.1 billion including leading enterprises United Orthopedic Corporation, Codent Technical Industry Co., Ltd. specialized in dental implant machine, manufacturer

of blood purification and hemodialysis loop system, San Pan International Limited, and producer of hemodialyzer, Fiberpure Technology Co., Ltd.. In addition, Hough Medical Technology, Alliance Global Technology Co., Ltd. and Dr. Wells Technology Co., Ltd. have been certified and registered under Department of Health, Executive Yuan for their artificial tooth root products while 3 proved GMP manufacturers including Phalanx Biotech Group as well as 4 “Biotech and New Pharmaceutical Development Act” qualified Park enterprises including Joy Medical Device Corporation. The presence of 11 academic and research institutes including National Taiwan University, National Cheng Kung University, National Yang-Ming University, and Metal Industries Research & Development Centre has completed the industry cluster of medical device.

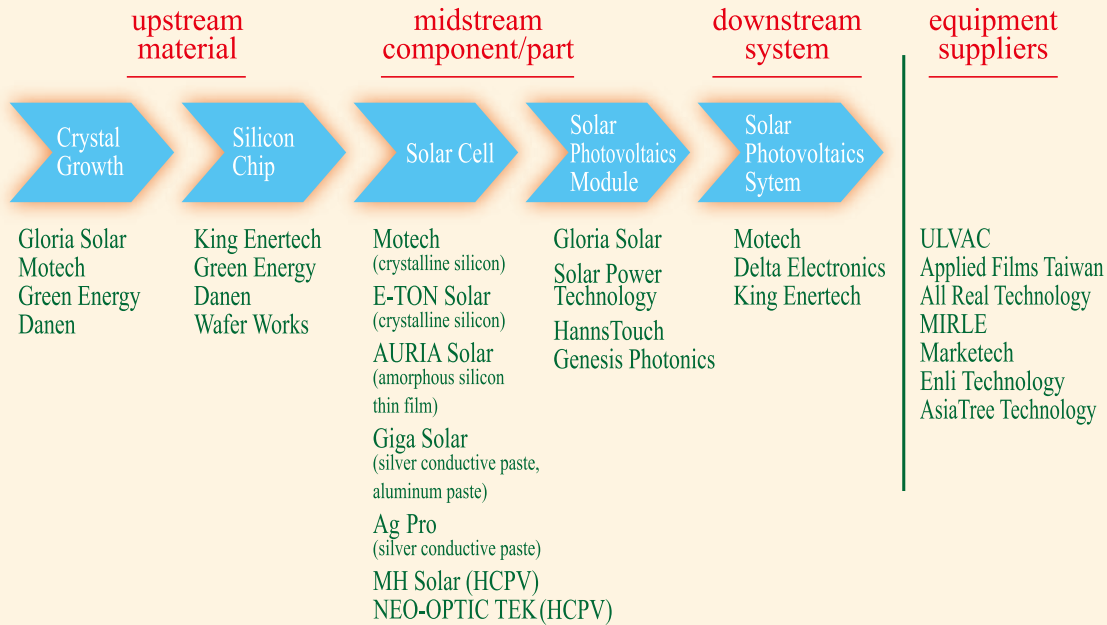
## More Integrative Industrial Cluster of Green Energy

To respond to the issue of global warming as well as to save energy and reduce carbon emission, the STSP Administration has been devoted to the introduction of green energy industry mainly including solar energy, LED, lithium battery and solar vehicle. By the end of 2011, 13 leading manufacturers including Green Energy Technology Inc., Danen Technology Corporation, and Wafer Works

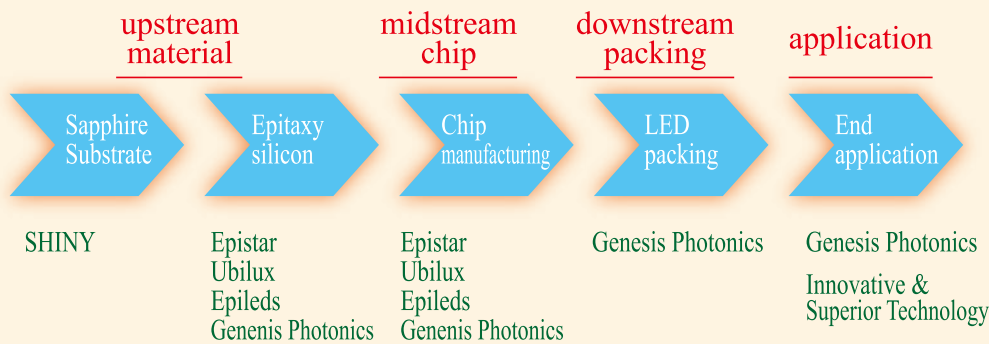


▲ Southern Taiwan Biomedical Device Industry cluster

## Solar Energy Industrial Cluster



## LED Industrial Cluster



▲ Green Energy Industrial Cluster at STSP

Corp. have presented themselves at the STSP forming integrative supply chain of photovoltaic industry from upstream material, midstream battery to downstream module products. The presence of Park enterprises in LED industry includes 6 of them, Epistar, CHIPLUS, Genesis, Epileds, Innovative Superior, and SHINY. With the presence of leading manufacturers, other upstream, downstream and system enterprises have been attracted. In terms of electrical car industry, Tangeng Advanced Vehicles has been introduced to the STSP. In order to strengthen the accreditation capacity of solar energy, meanwhile, High Concentration Photovoltaic Qualification Center of Institute

of Nuclear Energy Research at the Kaohsiung Science Park provides technologies and enacts testing specification to facilitate development and integration of domestic industries as well as to establish accreditation system that incorporates with international standard. Telecom Technology Center also established Green Communication Lab at the Kaohsiung Science Park in February, 2010 and the commencement ceremony of lab building was held on September 5, 2011 with the function to shorten the accreditation for quality and safety specification and to boost international competitiveness of domestic industries.