

## Green manufacturing industry with efficient printed electronics materials and processing

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Printed or Printable Electronics as well as Flexible electronics have gained strong attention due to the possibilities of low-cost fabrication, low capital investment, high throughput, reduced materials usage, reduced process step, elimination of harmful process and chemicals, as well as mechanical flexibility. Even though manufacturing printed device is thought to be inexpensive, the materials related to produce those printed device is remained persistently expensive. Many have avoided this issue by advantage of additive process and low investment with less process cost. Nevertheless, it is time to consider manufacturing printed electronics device is really cost saving since a few printed device and components are being manufactured or going to be manufactured soon.