

## Flexible & Wearable Electronics Application Experiments



World class organic photovoltaic modules manufacturers. Our ambition is to become the world reference in terms of energy collection through light in our living spaces, whether at home or in our companies, thanks to a French advanced energy industry.

[dracula-technologies.com](http://dracula-technologies.com)



### Problem to be solved

Commercially available temperature sensors are for the most part low cost, disposable temperature indicators; they cannot communicate accurate temperature readings over a period. While the communicating sensor recorders capable of ensuring continuity of services are expensive.

### Solution provided by SmartEES

LATTS project, goal is to solve the gap in the energy autonomy and continuity of services of sensors developing a compact and autonomous communicating device.

The developed tag is an energy autonomous and flexible temperature logger made using organic photovoltaic (OPV) technology as an energy-harvester power source. Organic photovoltaic is light, flexible, and very efficient in low lightning conditions and can be effectively integrated in a flexible tag thanks to the development of a dedicated flexible printed circuit board (PCB).

### Business model & impact

With LATTS project, Dracula Technologies was able to validate the pertinence of its photovoltaic module, LAYER® for cold-chain monitoring applications and more specifically in the temperature logger flexible tags market. The obtained demonstrator is a low-power energy-harvesting module that can generate energy using ambient light and offers freedom of design for their customers.

