

Power Modern Life Mobile



Organic photovoltaic (OPV) materials convert light into electrical power. In contrast to typical inorganic silicon cells, OPV laminates have a flexible structure and can withstand any ambient conditions.

Thanks to the Freedom of Design of OPV, it can be adapted to almost any surface. From mobile devices to consumer electronics depending on power requirements, any casing and surface can be independently powered by OPV.

- COMPANY:**
 - OPVIUS GmbH, founded 2016 in Germany
 - HQ/R&D site: Nuremberg; OPV factory: Kitzingen
- EMPLOYEES:**
 - 25 team members (Q2 '16)
- BUSINESS AREA:**
 - Energy technology, organic electronics
- TARGET GROUP:**
 - Product engineers and designers
- REFERENCES:**
 - OPV powered SolarTrees at German Pavilion at EXPO'15
 - OPV sail in shape of African continent at African Union Peace and Security Building in Addis Ababa

KEY OPV ADVANTAGES:

Transparent, invisible
SOLAR POWER

Ambient Light
ENERGY

Full integrable
TECHNOLOGY

Low Raw Material
CONSUMPTION

CORE TECHNOLOGY:

- OPV can be applied as an active liquid to almost any material
- OPV can alternate in shape, color and transparency, so that smart phones, pens, covers and more can be provided by electricity

APPLICATIONS:

- Mobile devices
- Stationary devices
- Small electronic parts
- Consumer electronics
- Industrial electronics
- Internet of Things

Freely designable prototypes: Surfaces will be coated with a thin OPV film comparable to the printing process of an ink printer.



ADDED VALUE FOR MOBILE DEVICES INDUSTRY:

- + **OPV tech increases battery time of mobile devices**
 - > Customer's benefit, new product highlight

- + **OPV powered smart objects establish new IoT applications**
 - > Invisible, embedded power supply

- + **OPV materials are completely organic and do not use rare earth materials**
 - > Eco-friendly energy