

systeme~cap

automatic phase switching system

System CAP is a Smart Grid solution developed by the electrical engineering laboratory (G2ELab) in Grenoble (France). This Automatic Phase Switching (APS) system ensures the phase connection of a single phase installation to be automatically switched during normal operation in order to improve network stability, to integrate power generation by renewables and single phase loads.



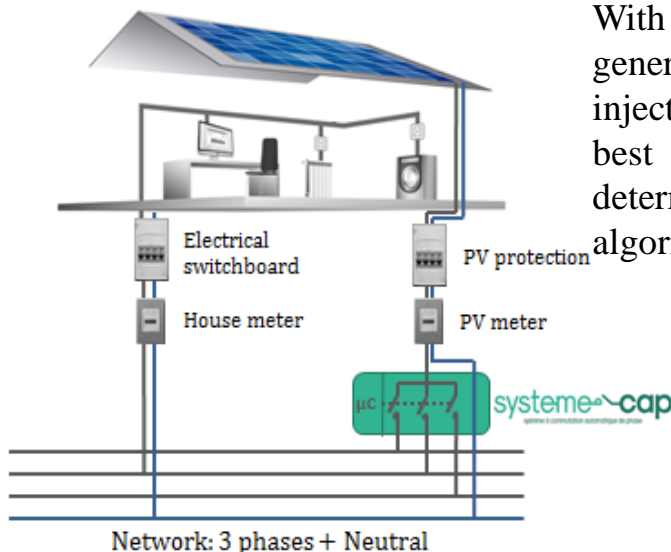
- **Benefits**

Increase distribution network capacity to integrate solar panels and electric vehicles.

Ensure greater network stability, limit voltage dips and variation.

Reduce Joule losses in grid conductors.

- **Principle**



With **Systeme CAP**, power generated by solar panels is injected in real time on the best phase previously determined by the algorithm.

The technology can be associated with a load :

- Interruptible (heating)
- Non-interruptible (phase switching without interruption)

OBJECTIVE

Offer a product, easy plug-in on the grid and able to increase stability on the distribution network.

INNOVATION

- Self-learning algorithm
- Local grid sensitivity estimation
- Fully decentralized and non intrusive technology

MARKET

- Single phase inverters
- Electric vehicle charging points
- Low voltage equipment
- Distribution system operator

INTELLECTUAL PROPERTY

- 1 patent
- 1 software on APP