

# Rectiphase, your SOLUTION partner,

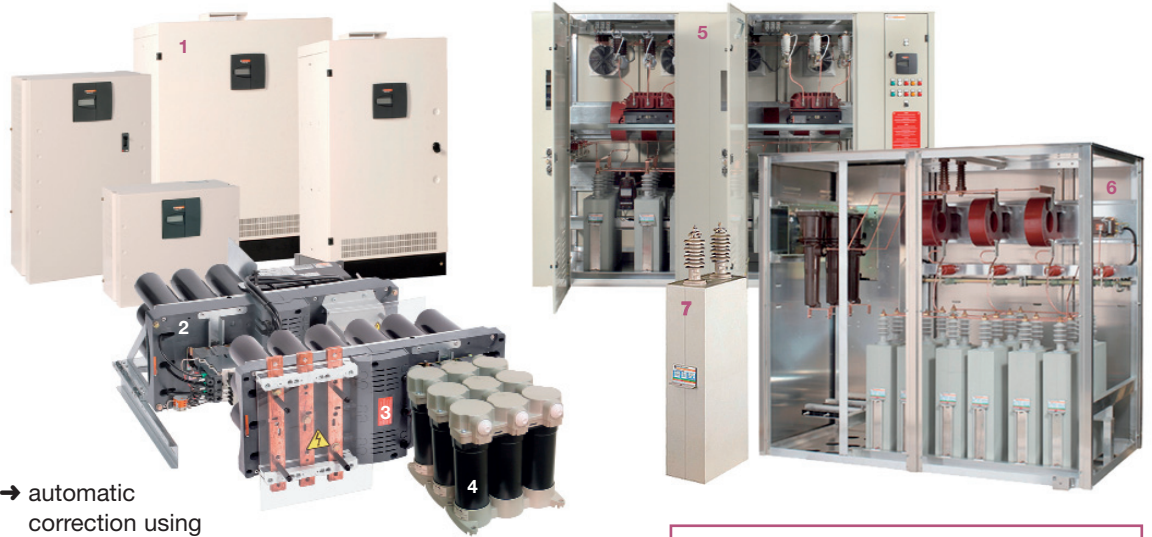
From supply of standard pollution removal and reactive energy correction

Benefit	Products and Equipment
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**energy cost reduction**  
 (case of invoicing of reactive energy by the supply authority)  
 (airports, banks, hospitals, port areas, hoisting, handling)

→ reactive energy correction

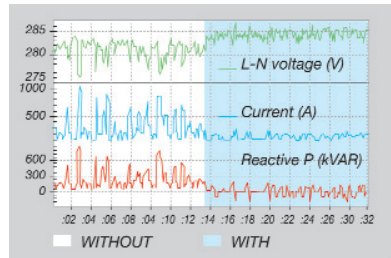
→ automatic correction using static switches



- 1 - Rectimat® cabinets
- 2 - Varpact Harmony LV correction module without busbar
- 3 - Varpact Classic or Comfort LV correction module with busbar
- 4 - Varplus® LV capacitor
- 5 - LV capacitor bank (CP253 12kV – 2 delta)
- 6 - LV capacitor bank (CP365 24 kV)
- 7 - Provipar LV capacitor
- 8 - LV hybrid filter
- 9 - LV passive filter

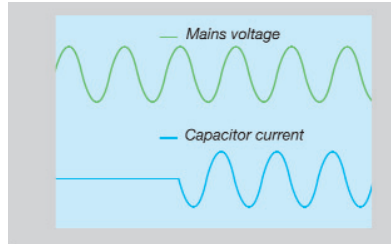
**reduction of voltage drops linked to the process**  
 (automobile, gantry cranes, cranes, chemical industries, refineries)

→ automatic real-time correction



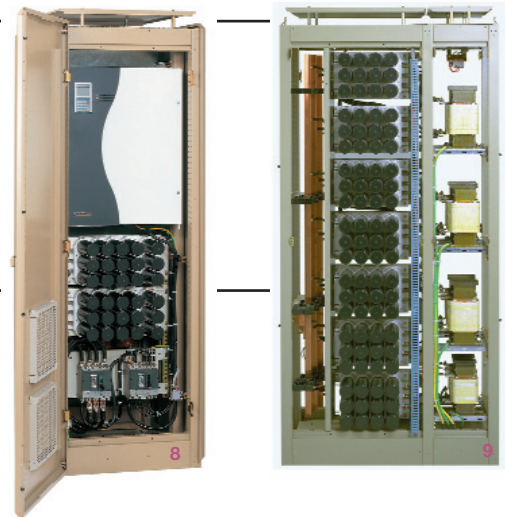
**neutralisation of voltage dips**  
 (microelectronics, laboratories)

→ correction of voltage drops, dips and microbreaks



**harmonic pollution removal**  
 (tunnels, water treatments, steel-making)

→ filtering



# at the heart of energy efficiency.



## equipment and products

### LV solutions

- VARPLUS<sup>2</sup> capacitors
- varimetric regulators
- VARPACT modules: pre-cabled assembly grouping the capacitive, switching and protection functions
- automatic correction: VARSET enclosures and panels

### MV solutions

- PROPIVAR capacitors
- wired and connected assemblies on frame with protection (fuses or imbalance) plus control device actuators (contactors or switches)
- automatic banks for the exterior (correction on the source station)

### LV solutions

- VARSET Fast: combination of capacitors, static switches and a suitable regulator, to engage the banks without causing transient overvoltages

### LV solutions

- Varsset Fast: combination of capacitors, static switches and a fast regulator to allow correction
- ACUSINE active filter

### LV solutions

- ESP: UPS without battery
- Rectifiers: see MGE UPS offering

### LV solutions

- passive filters combining BCV Technologie filter inductors
- ACUSINE or SINEWAVE active filters
- hybrid filters (combining passive and active filters)

### MV solutions

- passive filters combining BCV Technologie filter inductors

## to the installation of complete tailored solutions: **LISTEN, UNDERSTAND, ACT**

In addition to designing and manufacturing this equipment, the RECTIPHASE teams side by side with the Schneider Electric France sales force and the associated Service teams, carry out diagnosis and solution definition missions which are key to energy efficiency.

### ■ Installation diagnosis

- Evaluation of the state of the capacitor batteries
- Measurement of operating temperatures
- Recording of voltages, currents, active and reactive power levels
- Recording of harmonic voltage and current spectrums
- Recording of transient voltage and current phenomena

### ■ Solution definition

- Proposal of capacitor replacement and substitution plans
- Management of the destruction process
- Phi cos correction upgrade
- Reduction of network's harmonic pollution

### ■ Maintenance and servicing contracts

- Preventive maintenance: anticipation by means of key alarms, to avoid hardware failure and power cuts
- Corrective maintenance: detailed information to analyse the causes of faults

### ■ Remote monitoring

- Making available the measurements taken
- Process and format
- Transmit the alarms when an incident occurs

