

## KEY BENEFITS

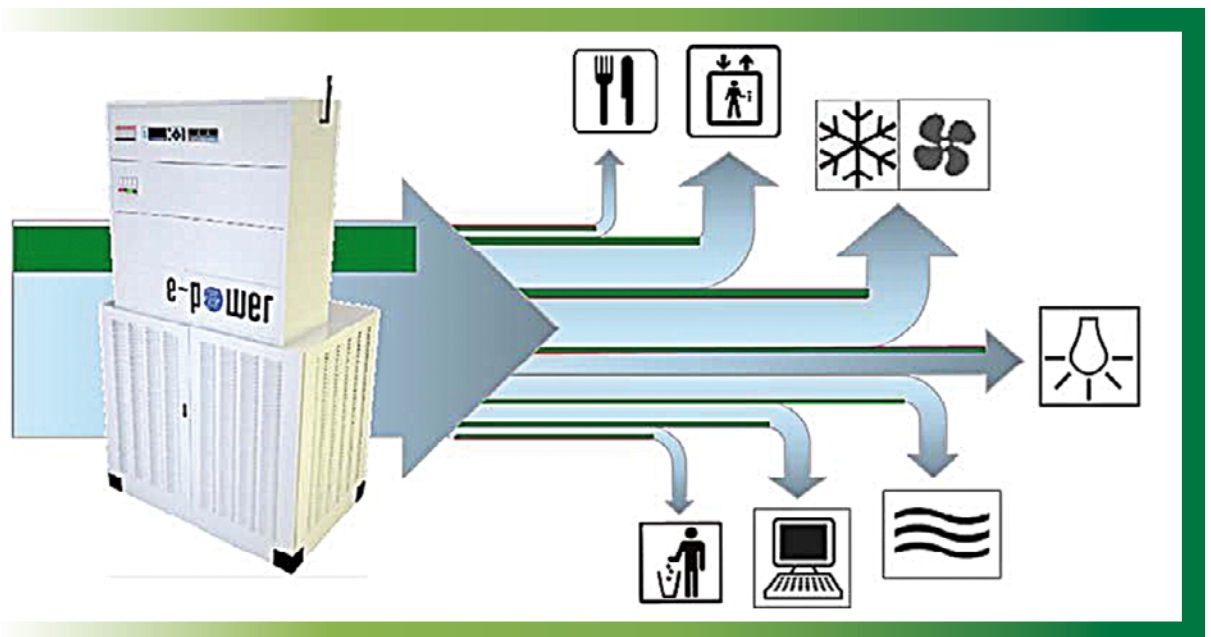
- ENERGY SAVING 3% TO 9% ON TOTAL CONSUMPTION
- POWER FACTOR IMPROVEMENT
- IMPROVEMENT IN ENERGY TRANSMISSION AND LINE LOSSES REDUCTION
- VOLTAGE AND CURRENT PEAK REDUCTION
- REDUCE THE THD AND RECONFIGURES THE HARMONIC CONTRIBUTION, IMPROVING THE WAVEFORM

## E-POWER SYSTEM

E-POWER SYSTEM IS A THREE-PHASE INDUCTIVE FILTER WITH HYBRID FUNCTIONALITY, BASED ON ELECTROMAGNETIC CONVERSION AND HARMONICS CONTROL WHICH IMPROVES ENERGY EFFICIENCY AND QUALITY BY SAVING ON ENTIRE ENERGY CONSUMPTION INCLUDING LIGHTING AND DRIVING FORCE IN THE INDUSTRIAL AREA. THE INDUCTANCE IS NOT CONSTANT BUT IT CHANGES DYNAMICALLY ITS FILTER IMPEDANCE VALUE ADAPTING TO ITS POWER ABSORPTION

“A SMART-MANAGED HYBRID, THREE-PHASE, PASSIVE INDUCTIVE FILTER THAT IMPROVES THE QUALITY OF ALL RELEVANT ELECTRIC PARAMETERS, PROTECTING THE LOAD AGAINST THE IMPACT OF BAD POWER QUALITY.”

-ABB JOURNAL



E-POWER IS PATENTED NEW TECHNOLOGY WITH OVER 700 UNITS INSTALLED WORLDWIDE AND SUCCESSFULLY OPERATING AT ALMOST NO MAINTENANCE COSTS. THE REAL-TIME VERIFICATION OF ENERGY EFFICIENCY IS POSSIBLE DUE TO THE UNIQUE BUILD-IN CONFIGURATION IN THE E-POWER SYSTEM THAT ALLOWS IT TO OPERATE IN TWO MODES:

- **BY-PASS MODE:** E-POWER IS BYPASSED WITHOUT ANY INTERRUPTION OF ENERGY FLOW, SO THAT LOAD IS DIRECTLY SUPPLIED FROM THE POWER GRID
- **SAVING MODE:** E-POWER IS IN ENERGY EFFICIENCY MODE AND THE ENERGY FLOW GOES THROUGH THE FILTER ENABLING ELECTRICITY SAVINGS.

THE E-POWER SYSTEM ALLOWS TO SWITCH INSTANTLY FROM BYPASS MODE TO SAVING MODE AND BACK.



## WHY GO FOR E-POWER?

- E-POWER PROTECTS THE LOAD AGAINST IMPACT OF POOR POWER QUALITY.
- E-POWER CONTRIBUTES TO SECURE THE OPTIMAL PERFORMANCE OF THE LOAD, ADDING TO THE TECHNICAL/ECONOMIC LIFE OF THE APPLIANCES, MINIMIZING NEEDS FOR SERVICING.
- ALL INSTALLED E-POWER UNITS OPERATE SUCCESSFULLY.
- 80% OF THEM PRODUCE 5%+ ELECTRICITY SAVINGS
- PAYBACK PERIOD NORMALLY BETWEEN 3 AND 6 YEARS.
- PQS' PROJECT CYCLE ENSURES SWIFT AND RISK FREE E-POWER IMPLEMENTATION.

## LOADS AND ENERGY SAVINGS

- HVAC-COMPRESSORS-AIRCON: 1% - 4%
- MACHINERY W/O VSD: 4% - 8%
- MACHINERY W/VSD: 3% - 7%
- RESISTIVE LOADS: 2% - 3%
- IT-DEVICES COMPUTER: 5% - 10%
- STANDARD LIGHTING: 10% - 18%
- ELECTRONIC LIGHTING: 2% - 4%

### OUR CLIENTS:

IKEA, METRO, MANOR, IPERCOOP,  
ROVAGNATI, ERNST&YOUNG, BRAZZALE,  
BIRRA PERRONI, BENNET, SMA, CARREFOUR

