

**Power Quality** 

**CATALIN CRIVINEANU- Partner Account Manager** 











### Eaton – prezenta semnificativa in Romania



#### Vanzari:

EATON ELECTRIC SRL -

fondata in Decembrie 1997 (sub denumirea de Moeller Electric)



### **Productie:**

EATON ELECTROPRODUCTIE – fondata in 2002; localizata langa Baia Mare (Sarbi + Busag)

COOPER INDUSTRIES ROMANIA – localizata langa Arad

























Carcase

Componente și soluții pentru control industrial

Iluminat

Clădiri comerciale - cutii cabluri și fitinguri

Instrumentație

Comunicații pentru medii cu risc de









Centre de control motoare de medie şi

Acționări cu convertizoare de frecvență

Contactoare și startere Interconectivitate și I/O

Automatizări și senzoristică Soluții de cablare a panourilor

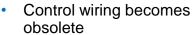


### **Benefit with SmartWire-DT: Manufacturing and commissioning**



- Control Wiring in cabinets requires lots of effort for design and assembly.
- Test and commissioning is extremely time-consuming.
- Additional functions are difficult
   install during operation.





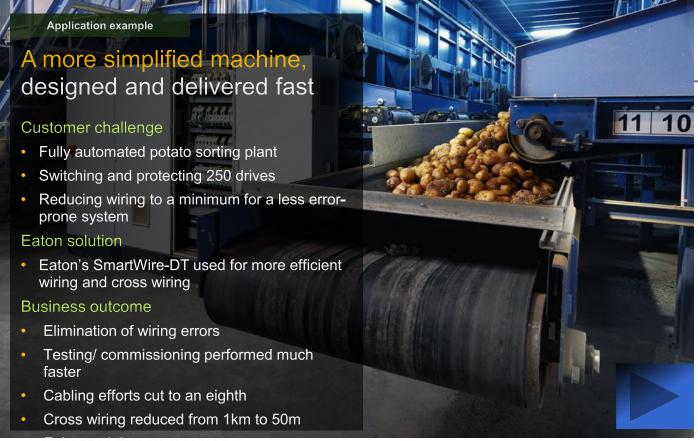
- Reduces assembly time, less mistakes
- Faster testing and commissioning
- Easier trouble shooting



### **SmartWire-DT: Application examples**







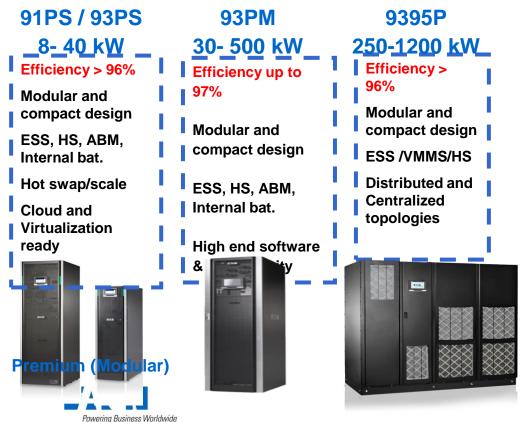
Enhanced data transparency

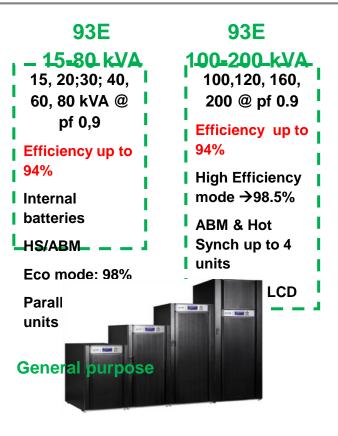






## 3 phase UPS





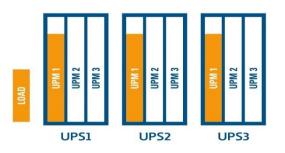
# **Energy Saving Technologies - VMMS**

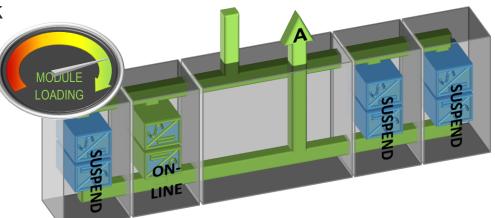
 Variable Module Management System (VMMS) brings up efficiency and optimizes the load levels of power modules by suspending extra UPS capacity

 Optimised for 50% load level peak efficiency/module

 All control logic is active, suspend modules are synchronised all the time and ready to go online when required







# Energy Saver System (ESS) – 99%

The year ESS became available

2009



Amount of UPS capacity in kVA using ESS mode

879,000 kVA

Energy saved every day



>348,000 kWh

Number of UPS units operating in ESS mode



Resulting overall availability of UPS units in ESS mode

>99.999%



Overall reduced CO<sub>2</sub> C emissions

95,000,000 kg

>1,500

Number of sites using ESS >150

Total time of ESS operation



>23 million hours

Overall energy saved by units

214 GWh





### A partnership of environmental excellence

Powered by

NISSAN

MOTOR CORPORATION

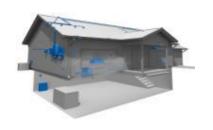


By partnering with **Nissan** amongst others, we provide energy storage solutions in the full range of energy capacity.

### RESIDENTIAL

### **COMMERCIAL**

#### **INDUSTRIAL**







**Expertise - Reach - Dependability - Diversity - Footprint - Portfolio** 

Eaton can partner with you to help you achieve substantial benefits.



### Eaton with Nissan Technology Partnership





Powered by Powered by

NISSAN MOTOR CORPORATIO





Battery Pack (12/6 Modules+ BMS)









xStorage Home







xStorage Buildings





MOTOR CORPORATION

# The xStorage Home system



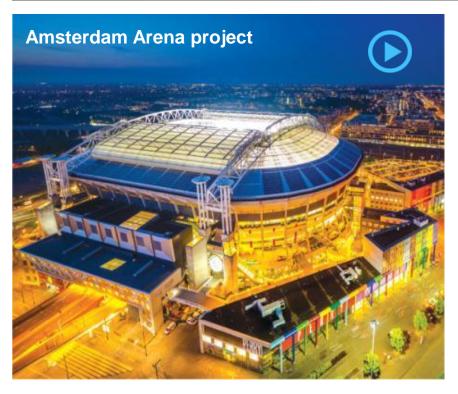


# Customer Installation of Eaton Nissan energy storage solution for Buildings with EV battery pack



Powering Business Worldwide

### We have been selected...



During matches, sporting fixtures, or concerts, a stadium or an arena's demand for electricity typically ramps by several megawatts over a matter of hours, in order to power large loads like lighting, catering and broadcasting equipment.

Many stadiums operate large events with their critical load supported by generators.

Eaton's Energy Storage System is designed to

- reduce the use of generators and provide clean and dependable energy on event day.
- support reduced energy costs by minimizing peak demand charges
- improve network stability
- reduce infrastructure costs while providing critical system power requirements





Feel free to email your questions to: CatalinCrivineanu@Eaton.com

