













Rezolvarea celor mai dificile provocări privind managementul energiei în întreaga lume.













Unități de distribuție a energiei (PDU-uri)



Soluții de alimentare paralel



Comutatoare de sursă



Protecţie la supratensiune şi corecţia factorului







Soluții pentru medii grele și cu risc de explozie Oferă fiabilitate și siguranță pentru a preveni întreruperile producției













Carcase

Componente și soluții pentru control industrial

Iluminat

Clădiri comerciale - cutii cabluri și fitinguri

Instrumentație

Comunicații pentru medii cu risc de

















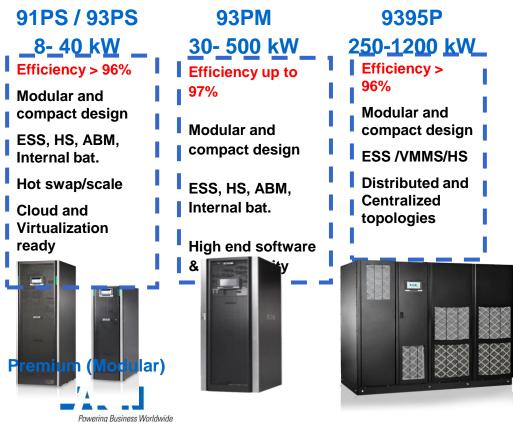
Centre de control motoare de medie și

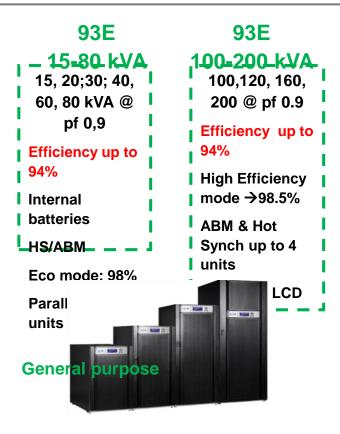
Acționări cu convertizoare de frecvență

Contactoare și startere Interconectivitate și I/O Automatizări și senzoristică Soluții de cablare a panourilor

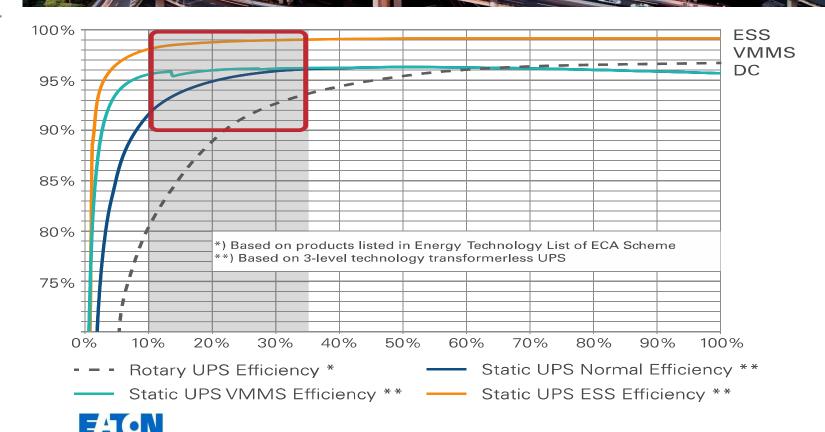


3 phase UPS





Efficiency Modes Compared





Powering Business Worldwide

Energy Saving Technologies - VMMS

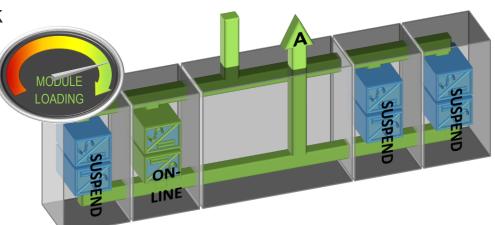
 Variable Module Management System (VMMS) brings up efficiency and optimizes the load levels of power modules by suspending extra UPS capacity

UPM 2 UPM 3 UPM 3

 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

>1.500



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%





95.000.000 kg

Number of sites using ESS



Total time of ESS operation



>23 million hours

Overall energy saved by units

214 GWh





Global aim: Build a sustainable energy system

CUT

40%

in greenhouse gas emissions compared to 1990 levels

SHARE

27%

of renewable consumption

SAVE

27%

Energy savings compared with business as usual scenario

INVESTMENT €1,000,000,000

needed in power generation and the grid to meet these targets



A partnership of environmental excellence

Powered by

NISSAN

MOTOR CORPORATION

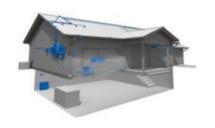


By partnering with **Nissan** amongst others, we provide energy storage solutions in the full range of energy capacity.

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





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NISSAN MOTOR CORPORATION





Battery Pack (12/6 Modules+ BMS)









xStorage Home









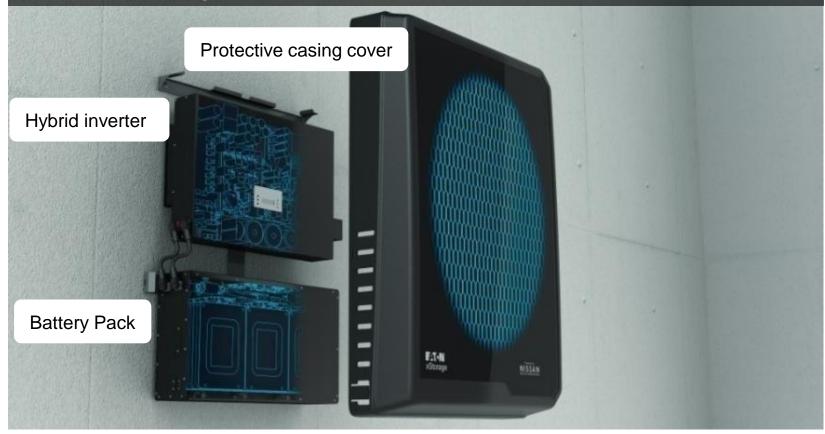




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MOTOR CORPORATION

The xStorage Home system





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.

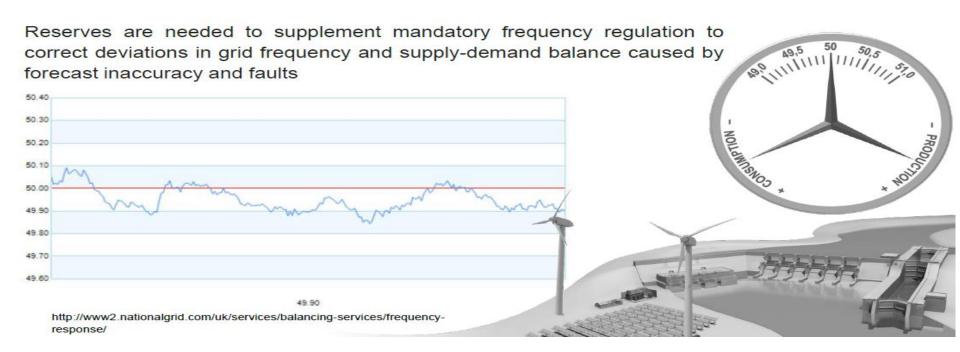
Many stadiums operate large events with their critical load supported by generators.

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



Future scenarios & Trends UPS as a reserve





Future scenarios & Trends UPS as a reserve

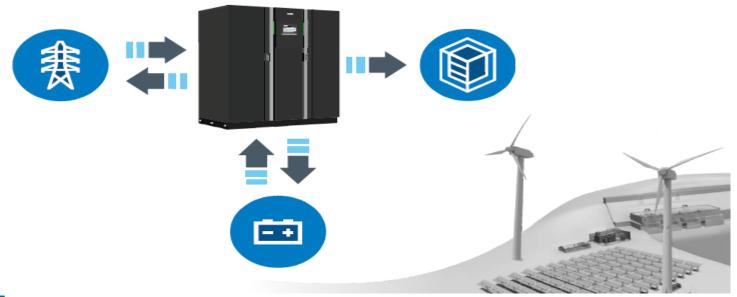
The frequency in the grid can be controlled by increasing/decreasing production or comsumption to/from the grid.





Future scenarios & Trends UPS as a reserve

UPS with batteries are a great reserve in providing an impact to production or comsumption to/from the grid.





Future scenarios & Trends UPS as a reserve – Data Center Contribution

UPS-as-a-Reserve enables a data center to increase its competitiveness by turning its necessary investments into a revenue stream:

 Value of 1 MW in the market has been approx. 50 k€; paid for availability, possibly for use as well

Data center has control of their energy, choosing how much capacity to offer, when, and at what price.



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