

Success Story: NURTS Bulgaria AD

Markets Served
Broadcasting

Since installation we have had no technical problems at all, so now consider Eaton to offer a superior technology that should further prove its quality and reliability throughout its whole operating life".

*Svilen Iliev, Energy and Facilities Manager,
NURTS Bulgaria AD*



Eaton Keeps Bulgarians Broadcasting

Location:

Bulgaria

Segment:

Power Quality

Problem:

Ensure uninterrupted power for NURTS Bulgaria AD, leading radio and television broadcaster throughout Bulgaria, during modernisation of backup power supplies to 700+ stations.

Solution:

Eaton 9130, 9135 and 9390 UPSs, with ratings from 3 kVA to 120 kVA, all of which have a double-conversion, or online, topology and Eaton's Network Card-MS's.

Results:

The new Eaton UPSs were installed across all stations with no downtime and real-time monitoring of the sites' power status has considerably reduced the chances of their network going down.

Contact Information

Kalin Georgiev

Senior Sales Representative Power Quality

KalinCGeorgiev@eaton.com

Anita Putkinen

Marcom Program Manager

AnitaPutkinen@eaton.com

Background

Following a recent review of its network and internal systems, including an extensive energy audit, leading broadcast service NURTS Bulgaria AD identified that it needed to modernise its backup power supplies to ensure its network is thoroughly protected against power outages and operating at the highest level of efficiency possible. Excellence in power quality and reliability is essential to NURTS because of the national importance of its services.

Its clients include all national media in the country, telecom operators, internet service providers, cable operators, government bodies and many private and state companies.

Challenges

In total over 200 new UPSs of varying sizes were needed across the network and a vital requirement of the UPSs was that they provided online communications capabilities so that NURTS could network all electrical equipment into a company-wide monitoring and

control system. Another important consideration was scheduling. NURTS needed to maintain its services throughout the project period and so systems could not be taken off-line until there were substitute facilities available. To accommodate this, the project needed to be completed in two stages; firstly the preparation work, followed by the UPS installation and commissioning six months later.

Solution

The solution provided by Eaton included Eaton 9130, 9135 and 9390 UPSs, with ratings from 3 kVA to 120 kVA, all of which have a double-conversion, or online, topology.

The units were delivered, installed and commissioned by New System, one of Eaton's authorised value added distributors (VADs) in Bulgaria, who worked together with Eaton on the project design. Kiril Kirilov, Department Manager Uninterruptible Power Supply, who managed the project for New System, says that first

class service levels were critical to the project being a success: "Eaton provided excellent support, not only in identifying the best technical solutions but also with deliveries, back-up and engineering support. This allowed our guys to really focus on the job and make steady progress with each installation".

With an efficiency rating of over 95 per cent, Eaton 9130 rack mount UPSs were selected for their energy saving potential. The 9130's compact design was also important as it can pack up to 3 kVA of power into only 2U of rack space. It also uses ABM® technology to significantly extend battery service life and has a bright LCD user interface to simplify monitoring. The Eaton 9135 was also selected as it can be configured as a rack or tower UPS making it a versatile option useful in retrofit applications like NURTS'. All of the 9130 and 9135's were supplied with the optional extended battery module (EBM), to allow longer battery runtimes, and optional maintenance bypass to ensure

EATON

Powering Business Worldwide

service continuity during UPS maintenance or upgrades.

NURTS also utilised Eaton 9390 UPSs in a parallel redundant set up to increase the reliability of its satellite control centre on Plana Mountain, one of the most important stations in the NURTS network. This UPS features scalable runtimes and HotSync paralleling technology to provide world-class power protection with high energy density for hypercritical systems such as satellite tracking and medical facilities. In use it combines energy efficiency with a double conversion topology that ensures there are no compromises in reliability and so was ideal for the Plana Mountain site.

Eaton's Network Card-MS's were also included so that, once installed, the UPSs could be connected to the company's control and supervision IP network and monitored and controlled remotely.

Eaton environmental sensors were also installed in the broadcast stations to monitor ambient temperature and humidity and provide advance warning of dangerous conditions before valuable equipment and operations are disrupted.



Results

The new Eaton UPSs were installed across all stations with no downtime and real-time monitoring of the sites' power status has considerably reduced the chances of the network going down. It's also eliminated the need for regular site visits for inspection of the

power supply and the backup UPS systems.

Reviewing the project, Svilen Iliev, NURTS' Energy and Facilities Manager, said: "The UPS systems include excellent protection mechanisms, so their reliability and functionality is incredibly robust. Since

installation we have had no technical problems at all, so now consider Eaton to offer a superior technology that should further prove its quality and reliability throughout its whole operating life"

Eaton Industries Manufacturing GmbH
Electrical Sector EMEA
Route de la Longeraie 7
1110 Morges, Switzerland
Eaton.eu

© 2013 Eaton
All Rights Reserved
Publication No. SuccessStoryNurts13
September 2013

Changes to the products, to the information contained in this document, and to prices are reserved; so are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to Trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton internet pages and Eaton order confirmations.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.