

## Lenenergo OJSC, Saint-Petersburg



Saint-Petersburg VS-60XE70U x 33

Lenenergo OJSC is one of the largest energy distribution network companies in Russia, with branches and affiliates throughout the region. The major functions of Lenenergo include management of the 110-0,4 kW network, as well as the connection of consumers to electric networks in the Saint-Petersburg and the Leningrad regions. Systems integrator Viking designed and installed two displaywalls intended for use in the network control centers.

One system is installed in the central control room, the other in the Kingisepp branch. Both displays use Mitsubishi VS-60XE70 U LED video cubes with a 60" diagonal screen size. Mitsubishi cubes were selected for these prestigious projects for a number of reasons: sharp and vivid image performance, three brightness schemes for reduced power consumption and extended lifespan; automatic colour and brightness adjustment without external equipment; brightness uniformity over the whole screen; the built-in versatility of Mitsubishi's Seventy Series user-selectable input cards, which allows the number and type of inputs to be easily changed for future expansion; the long lifespan of the LED light sources (over 80,000 hrs); the ability to automatically switch to backup signal sources and finally, the high reliability of and build quality of the Mitsubishi product.

### PROJECT DESIGNATION

Lenenergo, Saint-Petersburg

### PROJECT LOCATION

Saint-Petersburg, Kingisepp, Russia

### CUSTOMER

Lenenergo OJSC

### APPLICATIONS

Power transmission, utilities,  
network control

### PRODUCTS USED

VS-60XE70U,  
11 x 3 (Central Screen)  
5 x 3 (Kingisepp)  
Controller, Datapath Vision 800 x 2

### INSTALLATION BY

Viking

### FURTHER INFORMATION

Mitsubishi Electric Europe B.V.  
Nijverheidsweg 23a,  
3641RP Mijdrecht  
The Netherlands  
Tel: +31 (0)297 282461  
Fax: +31 (0)297 283936  
E. info@mitsubishielectric.nl

[Request more information](#)

## Lenenergo Central Control Room

Lenergo OJSC's Network Control Center is equipped with 33 Mitsubishi VS-60XEU (11 x 3) cubes, with a total screen size of 13.4m wide and 2.74m high. Occupying a floor area of around 37m<sup>2</sup> the screen operates continuously 24 hours a day.

Dispatchers at the Network Control Center manage the entire electrical network of the Saint-Petersburg and Leningrad regions, as well as the vital 110kW high tension distribution network. The new Network Control Center (NCC) allows a dramatic improvement in the management of the network to ensure maximum reliability, particularly under peak load conditions. The Mitsubishi Electric displaywalls play a vital role in this function by monitoring the configuration and operation of the high voltage networks. The displaywall control system allows simultaneous management from four dispatcher workstations. Image sources are managed with the help of a router, and the whole system is overseen by a unique software platform developed in conjunction with leading suppliers, which manages all the collection, processing, imaging and archiving of information. General Director of Lenenergo, Andrey Sorochinsky, commented, "The modernization of the grid control centers allows us to solve complicated problems. With an up-to-date fully automated complex which meets the world standards, modern technologies enable us to increase the quality of subscriber service, to bring down the service outage rate and to improve the reliability of the whole power system." The NCC displaywall is one of the biggest in Saint-Petersburg and Leningrad region.

## Kingisepp Control Room

Kingisepp Electrical Networks - a branch of Lenenergo OJSC, provides electrical energy to four large towns: Kingisepp, Ivangorod, Volosovo, Slantsy, and Luga. In August 2011, Viking equipped the control room of the Kingisepp Electrical Network branch with a display wall consisting of Mitsubishi VS-60XE70U projection cubes in a 5 (W) x 3 (H) configuration. The total size measures 6,1 m wide x 2,74 m high.

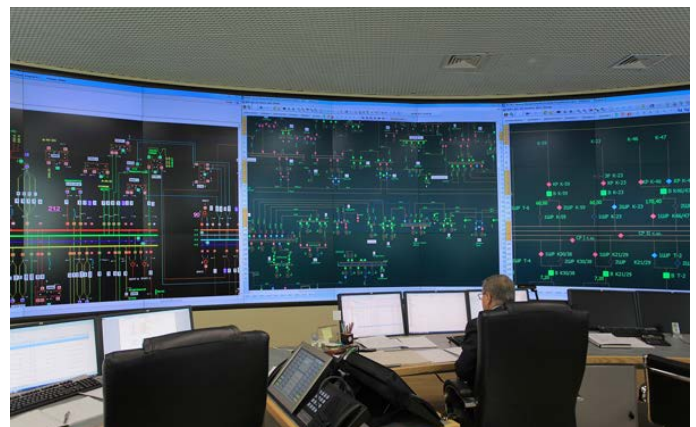
The control board of the Kingisepp electrical network allows operators to visualise signaling parameters and real-time measurements across the network to allow the effective management of the automated dispatching control system. The displaywall complements the functions of the control board by allowing a wide range of dynamic information to be displayed for subsequent analysis by operators and dispatchers. The information is displayed on the screen in alphanumeric and graphical form. Data can be scaled-up, itemized and displayed in a variety of formats depending on the scenario. In addition to displaying dispatch and technical data, the displaywall can be used to show images from remote video observation cameras. It is also possible to run training scenarios using a simulator to train personnel under very realistic operating conditions.

### Specifications

<b>Model</b>	VS-60XE70U
<b>Technology</b>	1 Chip DLP™(0.95"DMD 1-chip)
<b>Resolution</b>	XGA (1024 x 768)
<b>Dimensions</b>	60", 1217,5 x 912,8 mm
<b>Brightness</b>	290/ 350 cd/m2
<b>Contrast</b>	1700:1
<b>Bezel</b>	<1mm
<b>Input Scanning</b>	Horizontal: 31.5kHz - 78kHz Vertical: 49Hz - 85Hz
<b>Analogue I/P</b>	RGB signal level: 0.7Vp-p 75 Synchronous: TTL level Sync on green
<b>Light Source</b>	High Intensity LED 80, 000 hours (bright mode) 100,000 hours (eco mode)
<b>Power Consumption</b>	195W(Typ)
<b>Control I/O</b>	RS-232C: D-sub 9 pins Control link: D-sub 9 pins x 2 (I/O) Wire remote:3.5mmjack IR Receiver
<b>Weight</b>	60 kg



Kingisepp – VS- 60XE70U x 15



Saint-Petersburg VS-60XE70U x 33