

## St. Petersburg Water Authority

### OVERVIEW

**PROJECT LOCATION**  
St.Petersburg, Russia

**ENGINEERED BY**  
Viking  
Mitsubishi Electric

**CUSTOMER**  
St. Petersburg Vodokanal  
State Unitary Enterprise (GUP)

**COMPLETION DATE**  
September 2006

**PROJECT DATA**  
Control facilities and situation  
centre for the management of  
the region's water supplies.

**APPLICATION**  
Process control  
Situation centre  
Water/wastewater  
Utilities

**PRODUCTS USED**  
6 - 50XLW Display Wall  
4 - 67PH Display Wall  
2 - Jupiter Fusion 960 controllers

**PRIMARY CONTACT**  
(UK and UAE)

**David Jones**  
Business Manager -  
Display Engineering  
Mitsubishi Electric Europe  
Travellers Lane  
Hatfield  
Hertfordshire  
AL10 8XB  
Tel: 01707 278684  
Fax: 01707 278541



### THE PROJECT

St. Petersburg Vodokanal State Unitary Enterprise provides fresh water and wastewater management to over 4.7 million inhabitants in the St. Petersburg area. Over 2.5 million m<sup>3</sup> of water passes through the company's network every day. Over the last two years, this network has seen significant investment as the authority rolls out an ambitious modern automated process control system. Central to that programme was the need to upgrade the information display systems at the Levoberezhnoye Water Treatment Plant - one of the three key installations in the city's water network.

### THE SOLUTION

The real-time visualisation of this complex network in precise detail required a display system of the highest quality. The screen had to be of adequate size to be viewed comfortably by all operators, and deliver excellent brightness, viewing angles and colour conformity to ensure data could be clearly seen and correctly interpreted. Reliability and fault tolerance were also top priorities in this 24/7 application. After careful consideration, systems integrator Viking chose Mitsubishi Electric 50" Display wall cubes for the main control room and 67" cubes for the situation centre display, both driven by Jupiter Fusion 960 controllers. Both displays are equipped with automatic lamp changers to help ensure a very high degree of reliability.

The 50XLW cubes used in the main control room are arranged as a single 3 x 2 screen delivering an overall resolution of 3072 x 1536 pixels. Light output of 500cd/m<sup>2</sup> ensures excellent image quality, even in naturally-lit rooms. In the Situation Centre, a 2x2 67PH display wall gives a native resolution of 2100 x 1800 pixels. Automatic colour and brightness balancing, together with excellent mechanical design, delivers a seamless image surface, perfect for mission-critical data visualisation.

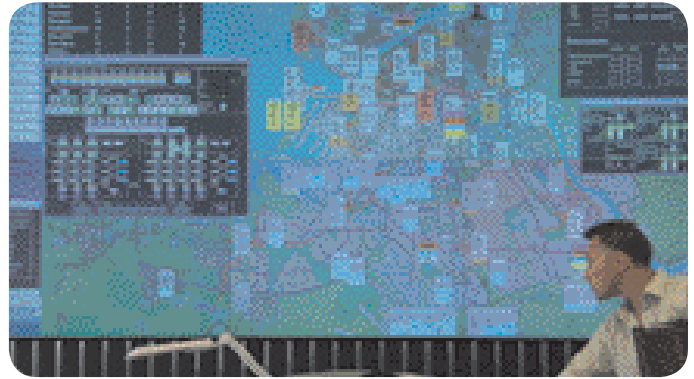
The Levoberezhnoye project, one of the largest undertaken by Viking, has been a huge success. Data gathered from the network, down to the level of individual pumps and valves, can now be retrieved and displayed on demand. Both integrator and end-user are delighted with their choice of display technology.

# St. Petersburg Water Authority

Control room & situation centre



Situation centre - 4 x 67PH Display Wall cubes



Control Room - 6 x 50XLW Display Wall cubes

## SPECIFICATIONS

Model	VS-50XLW	VS-67PH
Technology	1 Chip DLP™ (0.7" DMD 1-chip)	
Native Resolution	1024 x 768	1400 x 1050
Size	50" (1015mm x 761mm)	67" (1359mm x 019mm)
Brightness	Bright: 1000cd/m <sup>2</sup> Normal: 800cd/m <sup>2</sup>	Bright: 500cd/m <sup>2</sup> Normal: 400cd/m <sup>2</sup>
Contrast Ratio	1300:1 (typ.)	1600:1 (typ.)
Screen Gap	0.2mm - 1.0mm	0.2mm - 2.0mm
Colour Reproduction	16.7 million	
Input Scanning	Horizontal: 31.5kHz - 78kHz Vertical: 49Hz - 85Hz	
Analogue RGB I/P	RGB signal level: 0.7Vp-p 75Ω Synchronous: TTL level Sync on green	
Digital RGB I/P	TMDS (DVI-D connector)	
Lamp	High pressure lamp 6,000 hours (bright mode) 10,000 hours (normal mode)	
Control I/O	RS-232C: D-sub 9 pins Control link: D-sub 9 pins x 2 (I/O) Wire remote: 3.5mm jack IR Receiver	
Weight	64kg	91kg
Power Consumption	195W(Typ)	

## MITSUBISHI DISPLAY WALL

The perfect choice for command & control display systems

Mitsubishi Display Wall is the preferred choice of many of Europe's specialist systems integrators for its performance, longevity, reliability and ease of maintenance in control room applications

Mitsubishi's patented Colour Space Control and dynamic brightness balancing ensure superb clarity in use, while optional features such as automatic lamp changing and automatic colour wheel calibration help to ensure 24/7 reliability and resilience in mission-critical applications.

There are now over 20 product variants in the Display Wall range, meaning that whatever the application, there is a Display Wall product ideally suited to the task. Call us or visit our website to find out more about Display Wall in action.



Mitsubishi Electric Europe B.V. Display Engineering  
Traveller's Lane, Hatfield, Hertfordshire AL10 8XB, United Kingdom +44 (0) 1707 278684  
www.MitsubishiDisplayEngineering.com display.engineering@meuk.mee.com



**DISPLAY ENGINEERING**