

Energy-saving technologies in the outdoor lighting control systems



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The Branch “East” of “Svetoservis Ltd” deals with the issues related to the design, installation and maintenance of the automated control systems for the outside lighting and architectural art illumination, implementation of the energy-saving technologies. The specialists of the company develop the automatic lighting control projects, the projects on the integration of the automatic control systems, such as Integrated Automated control system for the architectural illumination (KASUAO) in Moscow.

The outdoor lighting system is a complex large-scale organizational and technical structure that involves a set of engineering systems, power systems, buildings, companies and control and maintenance departments, and the outdoor lighting installations in a certain area.

In accordance with the “Concept of the automation of the outdoor lighting”, the control system shall meet the following requirements:

- Monitoring the state of the power switching equipment at the control points;
- The voltage at the input and output (on the outgoing lines) of power points;
- Monitoring the state of door sensors (front door and the doors of the outdoor lighting control cabinet units);
- Control over attempts of unauthorized access;
- Fire alarm (smoke detectors);
- Obtaining information from the digital multi-rate electric meters;
- The transfer of information to the control center about the state of communication services, the state of equipment at the step-down substation (power switching equipment, equipment of the outdoor lighting control cabinet units) in a separate control area;
- The transfer of information to the in the central control department of the State Unitary Enterprise “Mossvet” (with the possibility of rapid transmission of information to the other systems of the city) about the state of communication services, equipment at the step-down substation (power switching equipment, equipment of the outdoor lighting control cabinet units) at all control areas throughout the city.

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