Helios

The automated outdoor lighting management system



Institute of high technologies of Belgorod State University

HeliOS The value proposition of using automated outdoor lighting management system

In the budget saving conditions, municipalities are forced to find more efficient energy saving solutions. A largest share of electricity consumed in the cities are outdoor lighting, street lighting, highways, and manufacturing facilities.

The most effective way to save energy is through replacement of the old incandescent lamps and integration of modern management system.





Capabilities of the system:

- Flexible lighting management modes with ability to segment
- Full remote network control through web interface
- Analysis and planning of energy consumption
- Optimization of lighting management efficiencies
- Improvement of operation and dispatch controls

Advantages of the system:

- Helps reduce energy usage by about 35%
- $_{\odot}$ Cost optimization
- Remotely controlled through web interface
- Gathers information for analysis and planning
- Helps increase lifespan of the lamp and decrease replacement frequency





Configuration with individual control of each lamp



Functional capabilities:

- Control each lamp separately
- Possibility to dimm each light or group of lights
- Future costs forecast

Helios

- Diagnosis of lamps' condition
- Integration with third-party systems



• 0-10, DALI, PWM

System works with different types of lamps:

- High -pressure sodium arc lamp 70, 150, 250 W
- LED
- Induction lamp and others



System possibilities

000

Setting

Flexible adjustment of lighting schedule (the annual schedule, seasonal, with a binding to the solar calendar)



Monitoring

Remote monitoring of street lighting lines (alarm on unauthorized connection, power decrease (burn tubes), the measurement of phase currents and voltages)





System possibilities

÷

Control

Remote lighting by dispatcher's commands, remote monitoring of lighting points

🔃 Шкафы Гелиос 1 ТС65і				On 0 Off 1 link failed 2	💌 💽 🔜 🖸	
Съ шу	/-1-H1-i (Cinterio	оп, <mark>Ме</mark> рк	ΨL 14:56:58 2	6.11.2014		
All		C		тестовое 2 - 2341234 [21 october - 1 march]	*	
On	On On	On	Request	2	*	
Off	Off Off Auto Auto	Off		3	9 10 11 12	
G uy	/-3-H1-x (Sieme	ns, 1¢,	平Lat 09:06:11:1	5.09.2014		
All	A			Годовое [21 november - 27 november] 1		
On	On		Request	2		
			AR Directo			

Report generation

Effective accounting of electric power (multi-rate support, remote pick-up of indications, generation of energy consumption reports)





Website www.ivt.su

Helios website www.streetslighting.com

Sales department sales@ivt.su





Thank you for your attention!

2	2	2	_	
	l	ſ		
			4	

Sales department +7 (4722) 58-00-82 sales@ivt.su



Website www.ivt.su Technical support +7 (4722) 58-29-80 support@ivt.su

Helios website www.streetslighting.com