



# SAYYID AHMAD BADAWI BARAKAT

Control system and street lights installation



## We cover the following state programs:

### Digital Kazakhstan

Address of the President of the Republic of Kazakhstan

"Third modernization of Kazakhstan: global competitive ability" dated on 31 January 2017.

### AUYL – EL BESIGI (Village is the people's cradle)

Our services conform to the State Program for regions development up to 2025 and to the Action Plan on the Special Project implementation – modernization of economic and social infrastructure that provides the rural population residence which meet the up-to-date living standards.

### Employment roadmap of Kazakhstan

In cooperation with the Job Centre of Akimat of Petropavlovsk city of NKR 2020-2021 we have provided with the job for 88 persons.



**Our advantages**



**The exclusive right for the software installation for ECM (electronic computing machine)**

“ECONOM” Control system and street lights installation on basis of dimming”

**Low power consumption**

LED-lamps fall into the category of energy efficient products, they consume the energy 8 times less as compared to other light sources

**Stability**

Energy-efficient street LED-lamp MAG4-160- 236 ND with electric power of 160 Wt. It completely remains its functional at ambient temperature from -45°C to +50°C. It is resistant to vibration, mechanical damage and temperature drop.

**Long life performance**

It can operate up to 25 years. It maintains its primary characteristics and quality of lighting.

Such service life is approximately 100 times exceeds the maintenance period for typical incandescent lamps, and 12 times for fluorescent analogues.

**Compact dimensions**

LED lamps have small sizes which is also their advantage.

**Radiation purity and illumination level control**

LED-lamps can be additionally equipped with cameras, regulators and sensors; as a result there is the intellectual LED complex that has a capability to control LED arrays, light intensity by way of dimming.

**Operating savings**

No any specialized ballasts required for their operation, also there is no need for carrying out any technical maintenance.

**Safety**

This product does not contain any hazardous and harmful components (mercury, krypton, argon, neon). As a result, the fire and environmental safety is ensured.

No any special conditions required for disposal.

**High color rendering and fluorescence purity**

The light is maximally close to the natural daily radiation.

There are no ultraviolet and infrared rays as well as the luminous flux pulsation.

**High payback**

Due to a long-term maintenance. This factor is key in favor of LED lights.

According to expert opinion, presently LED lamps are the only right choice.



# Our licenses and Certificates



The License of  
category I for building  
and assembly works  
performance

17020068 dated on  
24 November 2017

Certificate on making  
entries in the State  
Register of titles to  
copyright protected  
objects

No.5113 dated on  
03 September 2019

Certificates  
of SRO

Certificate ST RK

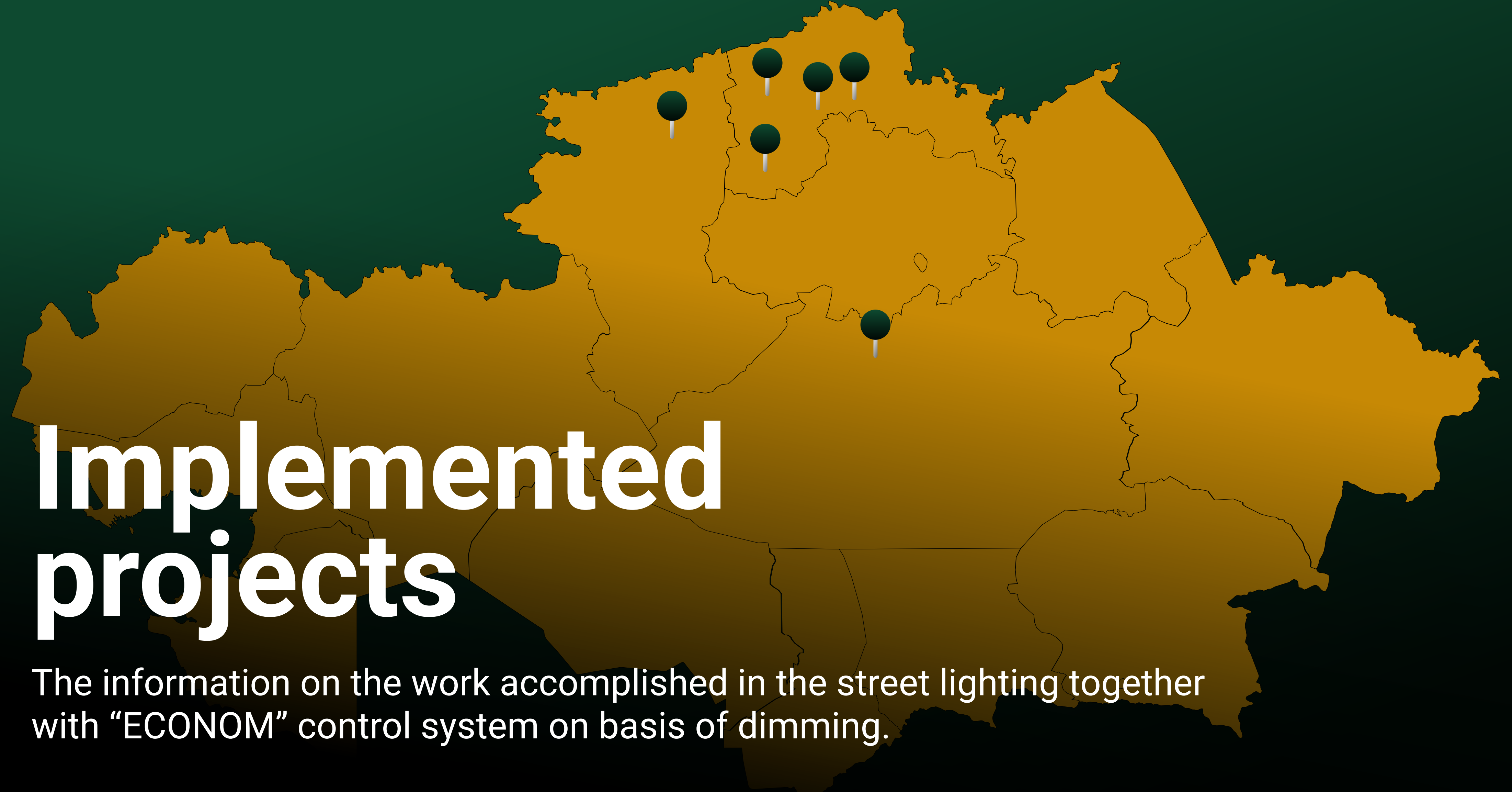
OHSAS 18001-2008  
(OHSAS 18001:2007)

Certificate ST RK

ISO 14001-2016  
(ISO 14001:2015)

Certificate ST RK

ISO 9001-2016  
(ISO 9001:2015)

A map of Spain is shown in a light orange color against a dark green background. The map is divided into regions. Five dark green circular markers with white pins are placed on the map, indicating specific locations for implemented projects. The markers are located in the northern and central parts of the country.

# Implemented projects

The information on the work accomplished in the street lighting together with “ECONOM” control system on basis of dimming.



## Successfully implemented projects

Total length

**109,26 km**

Total quantity of lamps

**3391 pcs**

Taiynshinsky district  
Petrovka vill.  
2022

Length

**6,7 km**

Quantity of lamps

**202 pcs**

Petropavlovsk city  
2018-2020

Length

**15,6 km**

Quantity of lamps

**1022 pcs**

Shal Akyn district  
Sergeyevka vill.  
2021

Length

**8,2 km**

Quantity of lamps

**210 pcs**

Karaganda city  
2021

Length

**18,26 km**

Quantity of lamps

**969 pcs**

Kyzylzhar district  
Teplichnoye vill.  
2020

Length

**13,5 km**

Quantity of lamps

**266 pcs**

Zhambyl district  
Presnovka vill.  
2020

Length

**47 km**

Quantity of lamps

**722 pcs**



# Calculations by Kazakshtan, Kyzylorda city

For visual difference between a normal outdoor lighting lamp and a LED lamp with a dimming mode, we have performed calculations by Kyzylorda city.

Through the city there are lamps of **DRL-250 Wt brand** are installed in quantity of **10 555 pcs**.

For calculations we used the **LED lamp with MAG3-105 Wt dimming**.

Quantity of lamps <b>10 550 pcs</b>	Average annual operation per 24 hours <b>11 hours</b>	EnergoSbyt tarriff <b>\$0,025 – \$0,093 kWt/h</b>	
Lamp	DRL 250 BT	LED one 105 BT	
Consumption per a year	10 594 581,25 kWt/hour	3 964 299,675 kWt/hour	
Cost	\$981.501	\$367.260	
Table for housing and utilities services payment	Tariff for kWt/hour	Servicing	Payment for electric power
2021	\$0,09	\$530.000	\$1.216.195
LED lamps with dimming – we offer \$258.535 for the services.			

# Pre-calculation of the pilot project by Kazakhstan, Kyzylorda city

At present there costs  
for electric power servicing and payment.

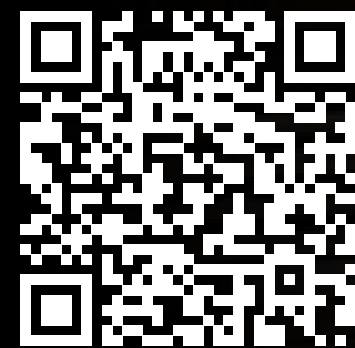
**\$1.746.193 / year**

Economy

**64,2%**

When installing the “ECONOM” lighting  
control system on basis of dimming.

**\$625.795 / year**



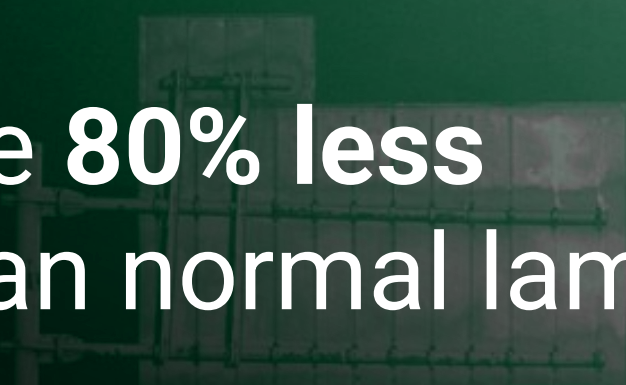
Scan QR  
To see an example  
pilot project



# ECO

LED lamps consume **80% less** of electric power than normal lamps.

Some of LED lamps may operate **up to 25 years** before they need to be replaced, and a LED **which is 98%** subject to recycling, has no danger of contamination and does not emit radiation which may damage the environment.





Most part of surplus carbon dioxide emissions happen because of the electric power consumption. Our LEDs harness the energy more effectively than halogenous or luminescence lamps.

This results in total reduction of carbon dioxide emissions.

Besides, LED products are manufactured of 100% recyclable materials. Actually, on expiration of service life the LED lamps will not be left in nature but will be recycled. This is one more important factor in reduction of secondary carbon footprint.



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