

The company **Zdeněk Hasoň – ELEKTROPROJEKT** is the firm *commissioned to lead the section of STREET LIGHTING in the system of consultancy centres EKIS MPO ČR - Czech Energy Agency* – which is an authority of the Ministry of Industry and Trade of the Czech Republic that is commissioned to carry out the state programme for saving and effective use of energy.

EKIS MPO ČR - BOSKOVICE, consultancy centre for saving energy with the specialization in systems of artificial and street lighting with the spere of all the Czech Republic. It is also the company that is commissioned by the Ministry of Industry and Trade of the Czech Republic to carry out State programme for saving energy. It manager and offers these services to the public through the company Zdeněk Hasoň – ELEKTROPROJEKT:

PROPOSALS FOR COMPLETE CONCEPTION OF MODIFICATIONS AND DEVELOPMENT OF STREET LIGHTING

and also

- **consultancy in the field of street lighting**
- **arrangement of financial sources** / state programme and requests for state grant from the funds of the Ministry of Industry and Trade of the Czech Republic
- **processing and assignment of project documentation of street lighting**
- **harmonising modifications and changes with current legislation of the Czech Republic and the European Union**

Our goal is to help villages and towns and current providers of street lighting in villages and towns to manage:

- **QUALITY**
- **RELIABILITY**
- **EFFECTIVITY OF MANAGEMENT AND CONTROL OD STREET LIGHTING**
- **MINIMAL COSTS FOR WORKING AND RENOVATION OF STREET LIGHTING**

It means to

- be well informed of the market with products and material of street lighting including prices
- provide technical support through training and providing data of producers
- propose modern lighting with maximal luminous efficiency
- **carry out the selection of lights with respect to following maintenance and spare parts**
- propose lighting with minimal costs for working and maintenance, if possible
- elaborate the conception of reconstruction and development of street lighting
- count costs for renovation and modification of street lighting / **some variants of the same price level** /
- find optimal solution for improving services in the field of street lighting
- look for financial sources for reconstruction and modernization of street lighting

On the basis of long-time experience with proposing and processing economically and energy economical systems of outside street lighting in the way that it brings immediate effect to submitter (villages or towns). It should also meet all requirements that are made by legislation on the illuminance of public places and their safety from the point of movement of people and motor vehicles on roads, we process

complex solving of consultancy and services in street lighting.

that is **PROPOSALS OF COMPLETE CONCEPTION OF REVITALIZATION OF STREET LIGHTING**

THE PART OF THE PROJECT IS ALSO PROPOSAL FOR:

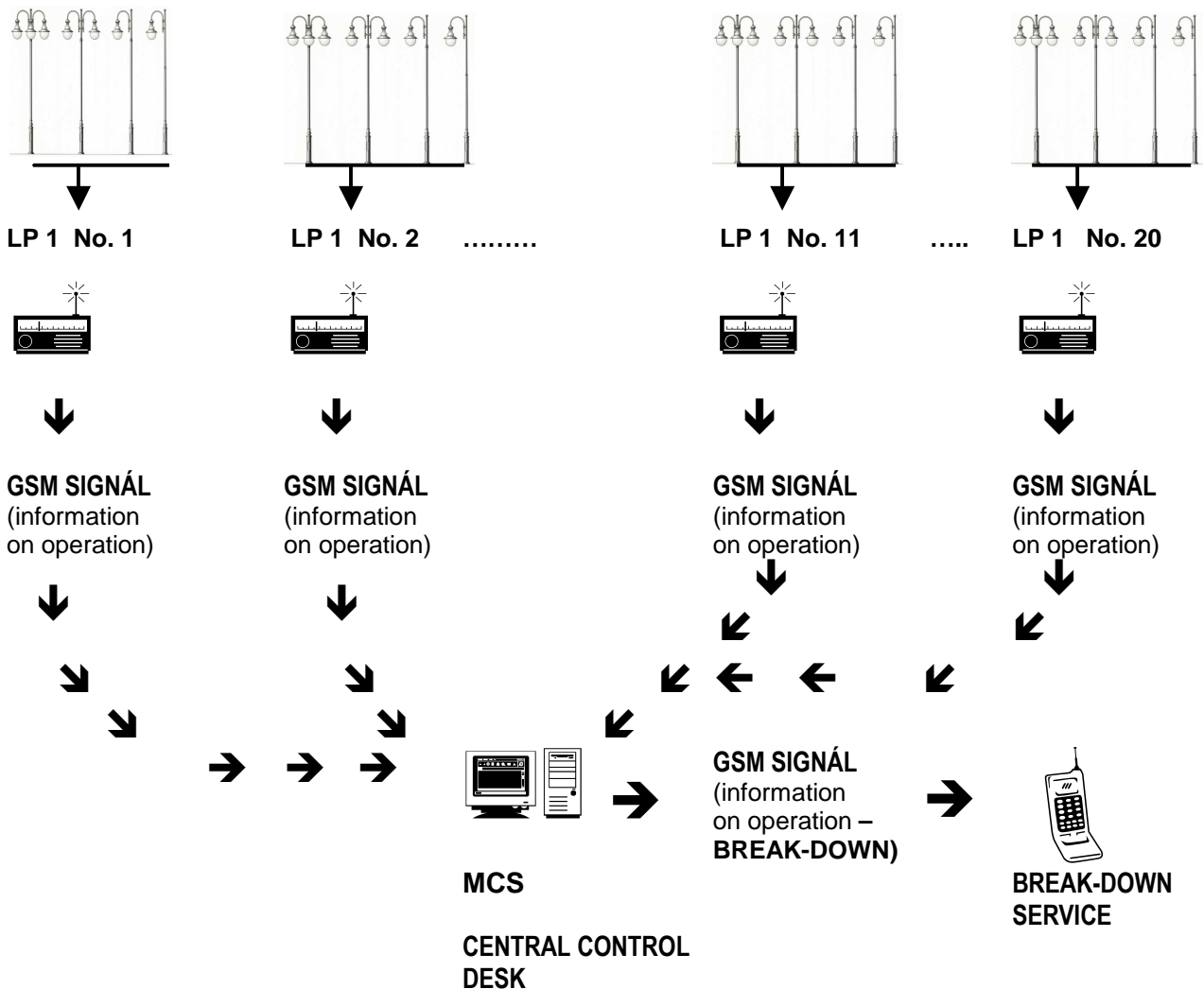
MCS[^] - CREDIT mobile control system



Mobile control system MCS is technical device that through the set of mobile communication it secures the contact of control desk with individual units – lighting panels LP including the transmission of important selected values and commands in both communication directions.

SCHEME OF THE SYSTEM OPERATION:

(An example of the connection of 20 local lighting panels LP 1)



We offer complex solving of 'ekoPROGRAM 2010', which contains these separate parts:

- a/ CARRYING OUT OF PROPOSED PROJECT
- b/ DEVELOPING OF THE DOCUMENTATION OF CURRENT SITUATION
- c/ DEVELOPING OF TECHNICAL CHARACTERISTICS (LIST OF PROPERTY) OF LUMINOUS SPOTS
- d/ PROCESSING OF GENERAL PLAN OF STREET LIGHTING – THE CONCEPTION OF DEVELOPMENT
- e/ CARRYING OUT OF TECHNICAL DOCUMENTATION – THE PROPOSAL OF MODIFICATIONS
- f/ PROCESSING OF PROJECT DOCUMENTATION
- g/ SECURING OF REQUESTS FOR GRANT, PROCESSING OF ENERGY AUDIT
- h/ ESTABLISHING OF CENTRAL CONTROL DESK (MOBILE WIRELESS CONNECTION)
- i/ PROPOSAL FOR ENERGY ECONOMICAL ARRANGEMENTS
- j/ SECURING OF FINANCIAL SOURCES FOR THE INVESTMENT
- k/ DEVELOPING OF DATA FOR SELECTION PROCEDURE AND ITS EXECUTION
- l/ SECURING OF SUPPLIER OF ERECTION WORK AND MATERIAL
- m/ CARRYING OUT OF THE TECHNICAL SUPERVISION OF INVESTOR
- n/ SECURING OF REVISION OF ELECTRICAL EQUIPMENT
- o/ SECURING OF REVISION OF STEEL LAMPPOST OF STREET LIGHTING
- p/ PROCESSING OF ENERGY AUDITS AND CERTIFICATES
- q/ SECURING OF REVISION OF TECHNICAL AND ELECTRIC DEVICES ACCORDING TO ČSN EN

Honourable mention of the Ministry of Industry and Trade of the Czech Republic

In 2005 we obtained honourable mention of the Ministry of Industry and Trade as the only company in the Czech Republic. It was for processing of technical documentation in the field of distribution of electricity and outside street lighting.



The award was given for the conceptual processing of the project and that the possibilities of energy economical measures were rated well comparing to the output state. Their conclusive evidence by subsequently made energy audit was also appraised positively.

Of course, the project was supported by the grant from the fund of the Ministry of Industry and Trade that was allocated by the Czech Energy Agency.

In 2007 we obtained Main Award of the Ministry of Industry and Trade as the only company in the Czech Republic. It was for processing of technical documentation of complex revitalization of distribution of electricity and outside street lighting of the town of Náchod.

Responsible deputy of the submitter:

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THE COMPANY

ELEKTRASPOŘNOJEKT

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CHOSEN AND INCLUDED INTO THE SYSTEM OF CONSULTANCY CENTRE



THE ONLY COMPANY IN THE CZECH REPUBLIC AWARDED
IN THE FIELD OF REVITALIZATION OF STREET LIGHTING

WITH THE AWARDS FROM THE MINISTRY OF INDUSTRY AND
TRADE OF THE CZECH REPUBLIC IN 2005 AND 2007

HONOURABLE MENTION – ENERGY PROJECT 2004 / awarded 2005



- The reconstruction of street lighting of the town of UHERSKÝ BROD

MAIN AWARD – ENERGY PROJECT 2006 / awarded 2007

- The revitalization of street lighting of the town NÁCHOD



and the autor of the publication 'STREET LIGHTING – the way to saving',
Publisher first in 2000 and sekond in 2006 in the Czech Republic and first in 2007 in Slovakia.
It was included into the library of Czech Energy Agency for the effective way of saving electricity in the
field of street lighting.

Supplement No. 1

THE LIST OF SELECTED PROJECT DESIGNS – PASSPORTIZATION AND ENERGY AUDITS – for the needs of state grants:

The name of a project:

Investment costs in CZK

2000

In cooperation with the company *KNOBLICH LICHT WIEN*

- Reconstruction of street lighting in the town **Jičín** - technical characteristics
- Reconstruction of street lighting in the town **Vysoké Mýto** – technical characteristics

2001

In cooperation with the company *KNOBLICH LICHT WIEN*

- Reconstruction of street lighting in the town **Ústí nad Orlicí** – technical characteristics
- Reconstruction of street lighting in the town **Buchlovice** – technical characteristics

2002

- Reconstruction of street lighting in the village **Drnovice** – technical characteristics
- Reconstruction of street lighting in the village **Malé Hradisko** – technical characteristics
- Reconstruction of street lighting in the village **Uhřice** – technical characteristics
- Reconstruction of street lighting in the town **Sušice** – technical characteristics

2003

- Reconstruction of street lighting in the town **Uherský Brod** - technical characteristics
- Reconstruction of street lighting in the town **Boskovice** - technical characteristics

ENERGY AUDIT for the needs of state grants

The level of state grant

2000

Regulative unit RVO 9801 / **regulation of street lighting** / the company ALSICO

2003

- Street lighting of the village **Jílové** u Držkova / Jablonec n. Nisou region / 100 000
- Street lighting of the village **Bukovina** / Blansko region / ---
- Street lighting of the village **Královice** / Slaný region / 210 000
- Street lighting of the village **Hroubovice** / Chrudim region / ---
- Street lighting of the town **Jičín** - 3rd and 4th stage 120 000
- Energy audit of **ZETOR Brno** a.s. / interior parts and outside lighting /
- Energy audit **Czech Television** Prague / interior parts and outside lighting /

2004

- Street lighting of the town **Jičín** – 5th stage 120 000
- Street lighting of the town **Sušice** – 1st stage, 1st part 300 000
- Street lighting of the village **Spešov** / Blansko region / ---
- Street lighting of the village **Staříč** / Frýdek –Místek region / ---
- Street lighting of the town **Uherský Brod** – 1. etapa 320 000

2005

- Street lighting of the town **Náchod** 1st stage 350 000
- Street lighting of the town **Náchod** 2nd stage 600 000
- Street lighting of the town **Náchod** 3rd stage 50 000
- Street lighting of the village **Čelákovice** – 1st stage 745 000
- Street lighting of the village **Vavřinec** 145 000

2006

- Street lighting of the town **Čelákovice** – 2nd stage 820 000
- Street lighting of the town **Boskovice** 320 000
- Street lighting of the town **Mratín** / Prague - East 420 000
- Street lighting of the town **Sušice** 1st stage, 2nd part 554 000

2007

- Street lighting of the town **Náchod** 4th stage 350 000
- Street lighting of the town **Uherský Brod** 2nd stage 950 000

2008

- Street lighting of the town **Náchod** 5th stage
- Street lighting of the town **Uherský Brod** 3rd stage
- Street lighting of the town **Čelákovice**
- Lighting of sport center **Blansko**

Supplement No. 2

THE LIST OF SELECTED PROJECT DESIGNS FOR THE PROPOSALS OF ENERGY SAVING:

The name of a project:	Investment costs in CZK
1997	
- The study of revitalization of the village Šebetov	276 000,--
- The study of revitalization of the village Lipůvka	260 000,--
- The study of revitalization of the town Tišnov	540 000,--
- The study of revitalization of the village Újezd u Brna	152 000,--
- The study of reconstruction of street lighting in the town Boskovice – 1 st to 3 rd stage	775 000,--
- The study of reconstruction of street lighting in the town Adamov	1 085 000,--
1998	
- The study of reconstruction of street lighting in the village Daskabát	351 000,--
- The study of reconstruction of street lighting in the town Židlochovice	1 386 000,--
- The study of reconstruction of street lighting in the village Zastávka u Brna	1 433 000,--
- The study of reconstruction of street lighting in the village Říčany u Brna	1 652 000,--
- The study of reconstruction of street lighting in the town Jemnice	2 356 000,--
- The study of reconstruction of street lighting in the town Boskovice – 4 th stage	722 000,--
- The study of reconstruction of street lighting in the village Drásov	342 000,--
1999	
- The study of reconstruction of street lighting in the village Šošůvka	592 000,--
- The study of reconstruction of street lighting in the village Šebetov	358 000,--
- The study of reconstruction of street lighting in the village Jaroměřice o. Svitavy	301 000,--
- The study of reconstruction of street lighting in the village Moravany	450 000,--
- The study of reconstruction of street lighting in the town Oslavany	1 639 000,--
- The study of reconstruction of street lighting in the village Nové Dvory	57 000,--

The proposal of revitalization of street lighting for financial CONTRACTING:

The company *KNOBLICH LICHT WIEN*

- Reconstruction of street lighting system in the town Blansko	5 000 000,--
- Reconstruction of street lighting system in the town Náchod	7 000 000,--
- Reconstruction of street lighting system in the town Jičín	8 000 000,--
- Reconstruction of street lighting system in the town Vysoké Mýto	7 500 000,--
- Reconstruction of street lighting system in the town Uherský Brod	12 000 000,--
- Reconstruction of street lighting system in the town Varnsdorf	7 800 000,--
2000	
- The study of reconstruction of street lighting in the town Bučovice	16 650 000,--
- The study of reconstruction of street lighting in the village Sebranice	420 000,--
- The study of reconstruction of street lighting in the town Velká Bíteš	1 980 000,--
2001	
- The study of reconstruction of street lighting in the town Buchlovice	1 900 000,--
- The study of reconstruction of street lighting in the town Choceň	1 000 000,--
2002	
- The study of reconstruction of street lighting in the town Bílina	11 200 000,--
- The study of reconstruction of street lighting in the town Duchcov	6 150 000,--
- The study of reconstruction of street lighting in the town Sušice	8 200 000,--
2003	
- The study of reconstruction of street lighting in the village Hrušovany u Brna	
- The study of reconstruction of street lighting in the village Spešov	
2006	
The study of optimalization of street lighting in the town Vičnov	
Proposal study of revitalization of artificial lighting SIGMA GROUP a.s.	
The study of supplying of ice rink, outside swimming pool and lodging house in the town Boskovice	
2007	
Proposal study of optimalization of lighting of sport center Blansko	
Proposal study of revitalization of street lighting of the village Holubice	
Proposal study of optimalization of street lighting of the town Moravská Třebová	

Supplement No. 3

THE LIST OF SELECTED PROJECT DESIGNS OF STREET LIGHTING FOR THE PROPOSALS OF ENERGY SAVING SINCE 1994:

The name of a project:	Investment costs in CZK
- Reconstruction of street lighting and electricity, Kunštát castle	3 680 000,--
1996	
- Reconstruction of street lighting in the village Černá Hora – 1 st to 3 rd stage	2 580 000,--
- Reconstruction of street lighting in the village Lipůvka	436 000,--
1997	
- Reconstruction of street lighting in the town Boskovice – 1 st to 3 rd stage	775 000,--
- Reconstruction of street lighting in the square 'Náměstí Míru', Tišnov	890 000,--
- Reconstruction of street lighting in the village Sloup v Mor. Krasu (the village of the year 2000)	620 000,--
1998	
- Reconstruction of street lighting in the town Boskovice – 4 th stage, 1 st part	100 000,--
- Reconstruction of street lighting in the parking space 'U Formanky' - Lipůvka	2 500 000,--
- Reconstruction of street lighting in the village Lysice	320 000,--
1999	
- Reconstruction of street lighting in the village Troubsko , 4 th stage, 2 nd part	740 000,--
- Reconstruction of street lighting in the village Rozstání	700 000,--
- Reconstruction of street lighting in the town Boskovice , 4 th stage, 2 nd part	700 000,--
2000	
- Reconstruction of street lighting in the town Boskovice – 5 th and 6 th stage and cabling of street lighting	2 990 000,--
- Reconstruction of street lighting in the town Vysoké Mýto	6 400 000,--
- Reconstruction of street lighting in the town Jičín	6 820 000,--
2001	
- Reconstruction of street lighting in the town Bučovice – 1 st and 2 nd stage	1 000 000,--
- Reconstruction of street lighting in the square of the town Jemnice	600 000,--
- Reconstruction of street lighting of the baroque cemetery Jičín	560 000,--
2002	
- Reconstruction of street lighting in the village Jílové / Jablonec n. Nisou region /	870 000,--
- Reconstruction of street lighting in the village Malé Hradisko / Prostějov region/	514 000,--
- Reconstruction of street lighting in the square Buchlovice / Uher. Hradiště region/	980 000,--
- Reconstruction of street lighting in the village Královice / Slaný region/	1 400 000,--
2003	
- Reconstruction of street lighting in the town Uherský Brod – conception of revitalization	10 000 000,--
- Reconstruction of street lighting in the village Jedovnice / Blansko region /	1 640 000,--
- Reconstruction of street lighting in the town Staříč / Frýdek Místek region/	1 950 000,--
2004	
- Reconstruction of street lighting in the village Dobříkov / Ústí n. Orł. region /	750 000,--
- Reconstruction of street lighting in the village Sušice – conception of development and revitalization	5 600 000,--
- Reconstruction of street lighting in the village Hrušovany u Brna	650 000,--
- Reconstruction of street lighting in the town Jičín – 5 th stage	820 000,--
- Reconstruction of street lighting in the town Čelákovice – 1 st stage	2 750 000,--
2005	
- Reconstruction of street lighting in the town Brandýs n. Labem / Stará Boleslav technical characteristics	
- Reconstruction of street lighting in the town Náchod – current state – technical charakter.	
- Reconstruction of street lighting in the town Čelákovice – 2 nd stage	2 600 000,--
- Reconstruction of street lighting in the town Uherský Brod – 2 nd stage	5 200 000,--
2006	
- Reconstruction of street lighting in the town Vavřinec - Veselice	450 000,--
- Reconstruction of street lighting in the town Náchod 4 th stage	2 000 000,--
- Reconstruction of street lighting in the town Čelákovice – 2 nd stage	2 600 000,--
- Reconstruction of street lighting in the town Boskovice – 7 th stage	1 240 000,--
- Reconstruction of street lighting in the village Mratín / Prague - East	680 000,--
- Reconstruction of street lighting in the town Sušice 1 st stage, 2 nd part	1 800 000,--
2007	
- Reconstruction of regulation and operating of street lighting in the town Moldava n. Bodvou (Slovakia)	8 600 000,-
- Reconstruction of street lighting in the town Náchod 5 th stage	2 200 000,--
- Reconstruction of street lighting in the village Daskabát (Olomouc region)	680 000,--
- Reconstruction of street lighting in the town Uherský Brod – 3 rd stage	6 200 000,--

