

SAVE MONEY WITH **SMART IOT SOLUTIONS**

HEATING | LIGHTING | SANITARY | SECURITY SYSTEMS | SENSORS | PEST CONTROL

SMART HEATING



HEATING AND AIR
CONDITIONING
REGULATION,
SIGNIFICANT ENERGY
SAVINGS



INDOOR LIGHTING



MONITORING
AND CONTROL
OF STREET LIGHTS,
INDOOR OR
EMERGENCY LIGHTS



OUTDOOR LIGHTING



SMART CYCLE PATHS,
GRATER SAFETY
AND
ELECTRICITY
SAVINGS



SANITARY EQUIPMENT



MONITORING OF
SANITARY
TECHNOLOGY,
CLEANUP
OPTIMIZATION,
USAGE REPORTS



CONSUMPTION MONITORING



ENERGY AND WATER
CONSUMPTION
MONITORING,
EMERGENCY
REPORTS



ENVIRONMENT MONITORING



MONITORING OF
ENVIRONMENT
PARAMETERS
(T, RH, CO₂, VOC,
DUST, NOISE,
LIGHT INTENSITY...)



WIRELESS SECURITY ALARMS



WIRELESS
ELECTRONIC
SECURITY
SYSTEMS



PEST PROTECTION



SMART
MONITORING AND
EXTERMINATION
OF PESTS



18

YEARS OF
IQRF TECHNOLOGY
USAGE



OVER

90

MEMBER COMPANIES
AND INSTITUTIONS
GLOBALLY

OVER

1000

REALIZED IOT
PROJECTS IN BUILDINGS
AND TOWNS



SAVE MONEY WITH **SMART HEATING** BY

SIGNIFICANT COST REDUCTION OF HEATING WITH A WIRELESS REGULATING SYSTEM



IN HOTELS

IN SCHOOLS

IN OFFICES

AUSTYN

INTERNATIONAL Ltd.

*Energy in the right place, at the right time
in exactly the needed amount.*

The company is in the business of managing industrial and administrative buildings in the fields of air conditioning, heating and lighting. Its aim is to stay at the lowest possible operating costs while securing necessary hygiene, heat and light.

The firm has been a member of the IQRF Alliance since 2013 and, along with other members, delivers complete IoT solutions mainly in Slovakia and the Czech Republic.



COMMON INEFFECTIVE HEATING

- overheated rooms - unnecessary losses of heat
- open windows - the system is unable to work ecologically
- manual regulation - nonoptimal heating and expensive operation

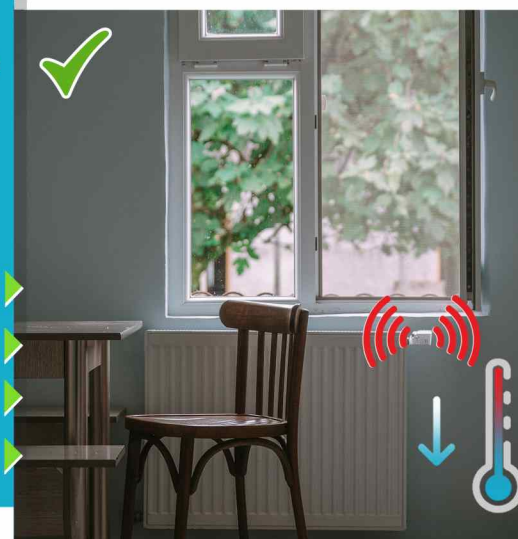
SMART EFFECTIVE SOLUTION

- optimized heating - remote control of the heating and unified air conditioning
- detection of open windows - operating costs decreased by up to 60%
- operation on one set of batteries for 5 heating seasons
- antivandal set - protection against unauthorized manipulation (deconstruction, battery protection)



► **FREE ENVIRONMENT ANALYSIS**

► **INVESTMENT RETURN GUARANTEED**



19+
YEARS
OF EXPERIENCE

100+
REALIZED
PROJECTS

UP TO
60%
ENERGY
SAVINGS

► THE SMART HEATING SYSTEM CONSISTS OF WIRELESS REMOTELY CONTROLLED THERMOSTATIC HEADS, CONTROLLED BY THE INCLUDED REGULATION SYSTEM.

► IN THE ROOMS, THERE ARE SENSORS INSTALLED (FOR T, RH, CO₂, VOC, DUST), THANKS TO WHICH HEATING OR AIR EXCHANGE (IN THE CASE OF A/C) CAN BE OPTIMIZED.

► SCENARIOS OF COMMON USAGE CAN BE DEFINED BY THE APPLICATION, WHICH OPTIMIZES HEATING.

► OPEN WINDOWS DETECTORS MAKE SURE YOU DON'T UNNECESSARILY HEAT UP ROOMS.

► THE FIRM PROVIDES FREE STARTING ANALYSIS OF ENVIRONMENT AND COSTS, AND IS ABLE TO GUARANTEE CLIENTS RETURN ON INVESTMENTS. THE SOLUTION IS FLEXIBLE TO CLIENTS' REQUIREMENTS.



REFERENCES



MARJÁNKA SCHOOL, PRAGUE
240 remotely controlled thermostatic heads have been installed in classrooms and teachers' offices. In classrooms, humidity and CO₂ levels are being monitored.



HOTEL PATRIA, ŠTRBSKÉ PLESO
Solution for needlessly heated rooms with windows accidentally left open. Nine stories of the hotel equipped with 180 heads.



RONA A.S., LEDNICKÉ ROVNE
Comprehensive solution of heating regulation system, split into hot water and infrared heating. Over 455 wireless heads installed.



KALINČIAK SCHOOL, BRATISLAVA
Zone regulation of hot water heating based on air quality in classrooms. 10 wireless networks installed.

SAVE MONEY WITH **SMART SANITARY** BY

HAVE AN OVERVIEW OF WATER CONSUMPTION WITH SMART SANITARY EQUIPMENT



SMART SANITARY

ultimate water management®

The company is a leading Czech manufacturer of a complete range of sanitary electronics in order to satisfy the high demands of customers for modern sanitary facilities and their equipment in conjunction with high hygiene and comfortable operation.

The firm has been a member of the IQRF Alliance since 2015 and, together with other members, they supply comprehensive IoT solutions in the Czech Republic and abroad.

FOR HOTELS, SHOPPING CENTERS, SCHOOLS, HOSPITALS, OFFICES

COMMON INEFFECTIVE SANITATION

- insufficient cleaning,
- absence of necessary hygienic aids
- dangerous bacteria in less frequently used facilities (e.g. during holidays)

SMART EFFECTIVE SOLUTION

- radiant cleanliness and timely replenishment of hygiene needs in busy areas
- reduction of personnel costs - optimization of cleaning
- information on water consumption - overview of water flow through taps and toilets
- prevention of dangerous pathogens such as Legionella
- hygienic flush with documentation for possible disputes

FREE STARTING ANALYSIS AND SOLUTION DESIGN

▶ **MODERN SANITARY EQUIPMENT CONNECTED TO THE MONITORING AND CONTROL SYSTEM PROVIDES INFORMATION ABOUT WATER CONSUMPTION AND THE CAPACITY OF SANITARY FACILITIES.**

▶ **OPTIMIZE CLEANING AND SUPPLEMENT OF HYGIENE SUPPLIES AND REDUCE STAFF COSTS.**

▶ **STANDING WATER IN THE PIPES IS IDEAL FOR THE REPRODUCTION OF HAZARDOUS PATHOGENS, e.g. LEGIONELLA. USE REMOTE HYGIENE FLUSHING AND ENSURE HYGIENE SAFETY EVEN DURING HOLIDAYS OR ON LESS USED SANITARY FACILITIES.**

▶ **WITH THE CONTROL PROGRAM FROM SANELA, YOU WILL RECEIVE A DOCUMENT ON THE STATE OF SANITARY ENGINEERING, ON ITS MAINTENANCE AND COMPLIANCE WITH HYGIENE REGULATIONS.**

▶ **MONITOR AND CONTROL MORE THAN 200 DEVICES IN ONE WIRELESS NETWORK.**

▶ **MODERN, LUXURY APPEARANCE AND ANTIVANDAL DESIGN.**



25+

YEARS
OF EXPERIENCE
GLOBALLY

100%

OVERVIEW OF
THE USE OF
SOCIAL FACILITIES

800+

MODERN
PRODUCTS WITH
AN ANTIVANDAL
DESIGN

SAVE MONEY WITH **SMART LIGHTING** BY

REPLACE INEFFICIENT LIGHTS WITH A MODERN CONCEPTION OF SMART LIGHTING



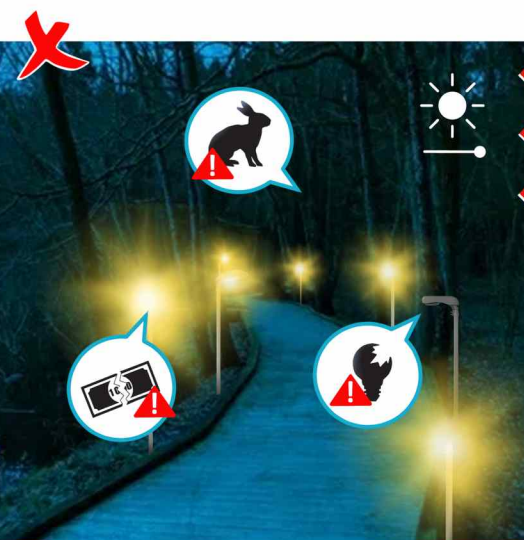
IN STREETS, PARKS, ON CYCLE PATHS, IN BUILDINGS, CINEMAS, CONFERENCE HALLS, OFFICES



„With us, you're Smart“

The company specializes in lighting and its intelligent control. It provides a complete solution for not only outdoor lighting, but also the lighting of indoor spaces (industrial and sports halls, schools and office buildings).

The firm has been a member of the IQRF Alliance since 2016, where it has certified products for wireless lighting control and, along with other members, provides complete IoT solutions all over the Czech Republic and abroad.

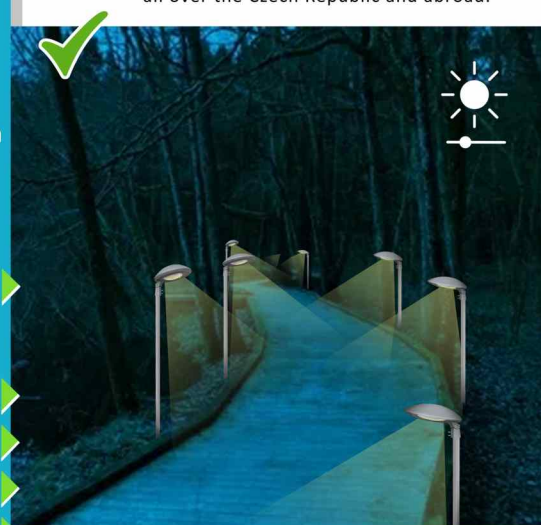


COMMON INEFFECTIVE LIGHTING

- high operating costs due to the inability to control brightness (always at 100%)
- failure discovered only upon physical inspection, the user has no status information
- environment-insensitive lighting causes harm to nearby ecosystems (e.g. in parks)

SMART EFFECTIVE SOLUTION

- ability to remotely lower brightness, option to use movement detectors to increase brightness when a person passes by (up to 25% energy savings)
- always available status overview of all lights and failures, no need for a physical inspection
- software allows record of operating costs + evaluation of consumption
- possible grants for controllable lights
- environment-friendly lights, save nature & energy



REFERENCES

TÁBOR (TS TÁBOR)

Complex system for street lighting control. 76 street light switchboards. Communication between switchboards and dispatcher using radiodata transfer. Switchboard network monitoring control.



VYŠKOV (Vyškovské služby)

Complex system for street lighting control. 42 street light switchboards. DC-2 DATMO application for control of electronic ballasts in luminaires with HPS lamps.



JULI Motorenwerk, MORAVANY

Replacing sodium-vapor lamps with LED lights and a complex system for lighting control, noting high variability in production and changes in technology distribution. €12 200 saved in 3 months.



LIKOV s.r.o, KUŘIM

Solution for a complex system for indoor lighting of production lines according to the production plan. Warehouse lighting only in the presence of workers, lighting control based on current daylight.



**FREE STARTING ANALYSIS
AND SOLUTION DESIGN**

22+
YEARS
OF EXPERIENCE

UP TO
60%
ENERGY SAVINGS
THANKS TO REPLACING
OLD LIGHTS

120+
INSTALLATIONS
ALL OVER
THE CZECH REPUBLIC

- ▶ SAVE UP TO 85% OF ELECTRICAL ENERGY BY REPLACING OLD LIGHTS BY LED LIGHTING.
- ▶ SAVE MONEY FOR PERSONNEL, GAIN ACCESS TO IMMEDIATE FAILURE REPORTS WITH REMOTE MONITORING, SEND SERVICE TECHNICIANS ONLY WHEN NECESSARY.
- ▶ CONTROL AND MONITOR OVER 200 LIGHTS IN ONE WIRELESS NETWORK.
- ▶ THE OUTDOOR RF RANGE IS HUNDREDS OF METERS BETWEEN EACH LIGHT.
- ▶ AVOID NEEDLESS LIGHTING, WHERE IT IS NON-ECONOMIC AND NON-ECOLOGICAL, BE ENVIRONMENT-FRIENDLY.
- ▶ CYCLE PATH AND STREET LIGHTING CAN WORK AT MINIMUM BRIGHTNESS INCREASED WHEN MOVEMENT IS DETECTED.

