LISSCOM
incălzire - răcire

Building Management Systems

Necesar în orice anotimp

SOLUTII DE MANAGEMENT pentru EFICIENTA ENERGETICA IN ZONELE URBANE

IEAS
09.2018

creaza confortul, controleaza energia

Gesellschaft Für Regelungstechnik und Energieeinsparung mb

GFR

Consum ENERGIE in ORASE la nivel GLOBAL

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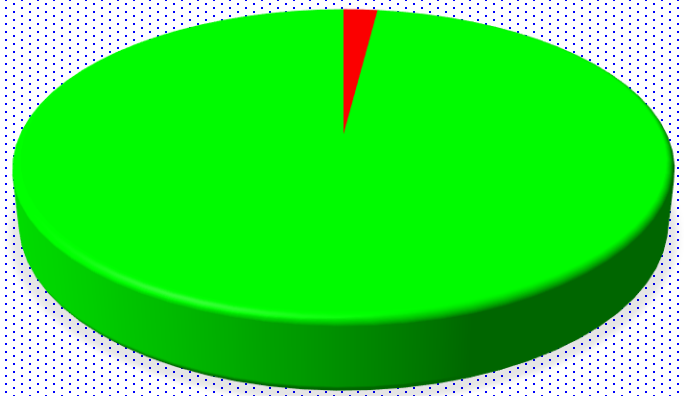
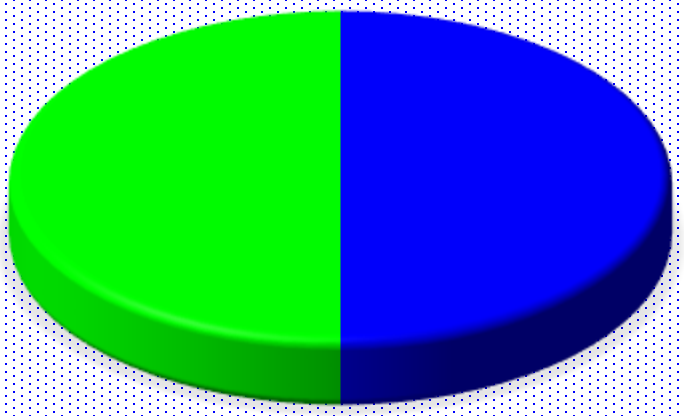
SUPRAFATA TOTALA OCUPATA DE ORASE 2 %



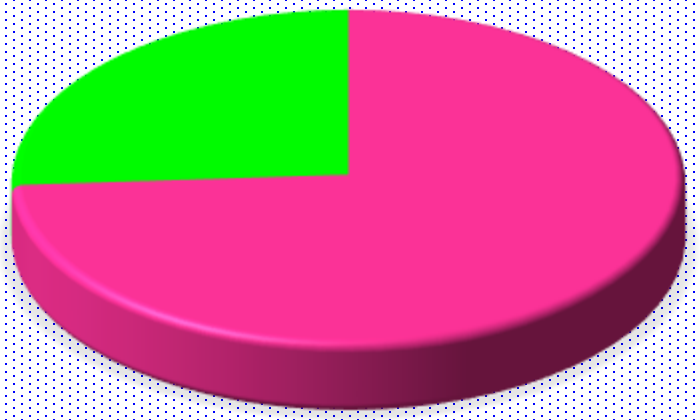
TOTAL LOCUITORI IN ORASE

50 %



TOTAL ENERGIE CONSUMATA IN ORASE

75 %



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Consum de ENERGIE - CLADIRI NEREZIDENTIALE

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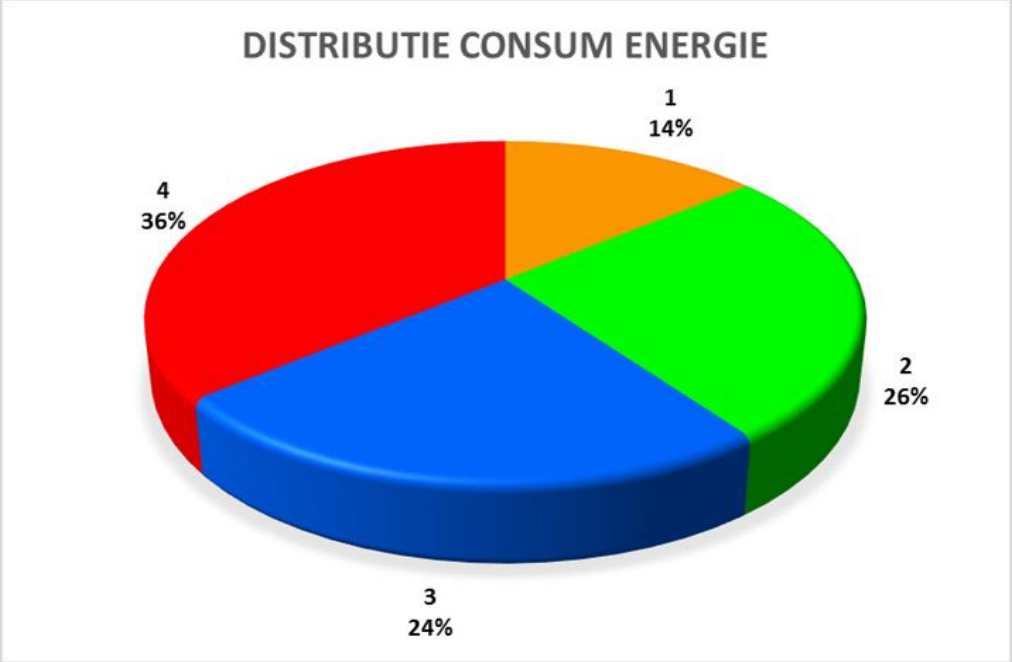
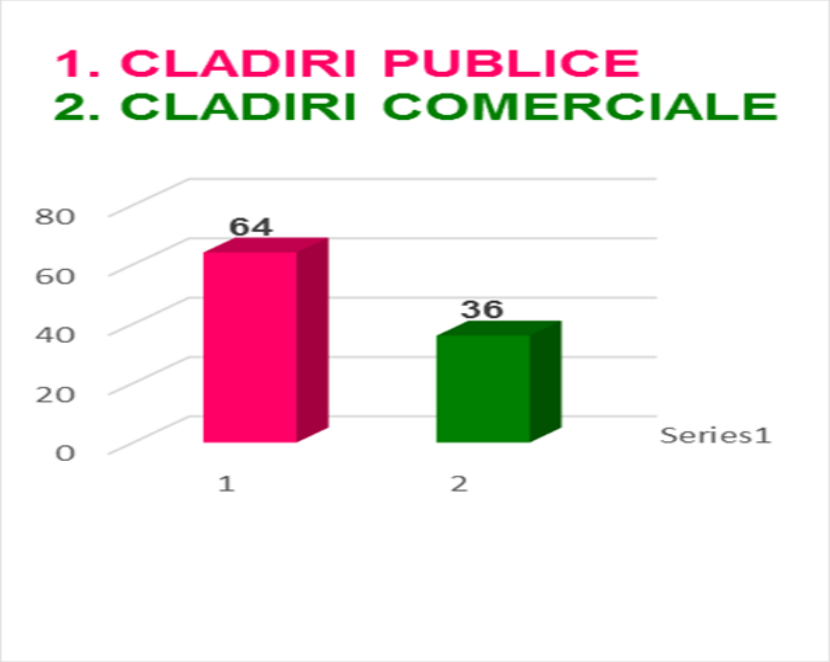
1 SANATATE 14 %
2 INVATAMANT 26 %
3 ADMINISTRATIE PUBLICA 24 %
4 CLADIRI COMERCIALE 36 %





La nivel naţional, consumul de energie în clădiri reprezintă 45% din consumul total de energie.

PERFORMANTE ENERGETICE CLADIRI

► CLADIRI INVATAMANT 354 kWh/mp/an

► CLADIRI DIN CELELALTE SECTOARE 200-250 kWh/mp/an

(Sursa: Institutul Național de Statistică, INCD URBAN-INCERC)

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Evolutie Consum ENERGIE la nivel GLOBAL 2040

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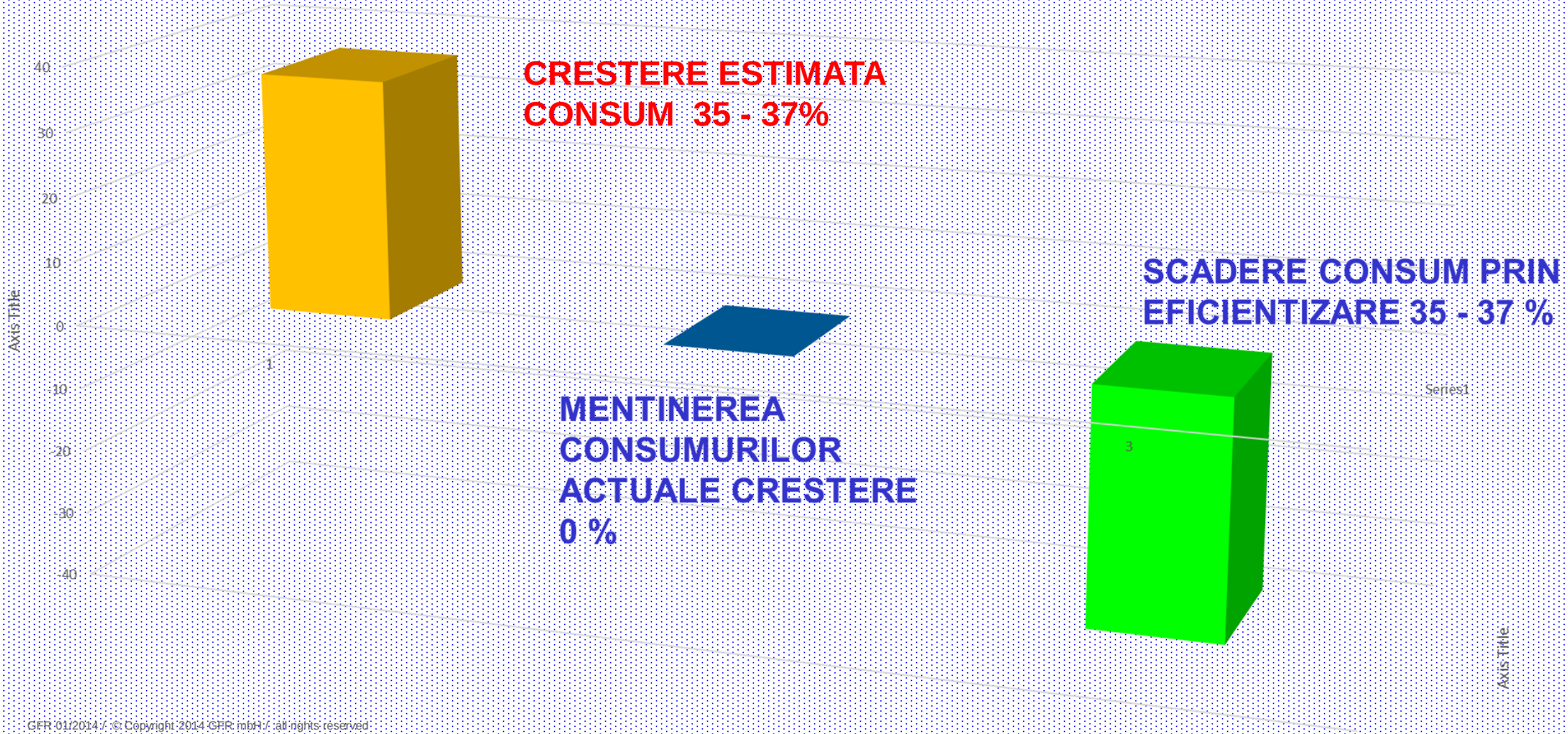

CRESTERE ESTIMATA CONSUM 35 - 37%

MENTINEREA CONSUMURILOR ACTUALE CRESTERE 0 %

SCADERE CONSUM PRIN EFICIENTIZARE 35 - 37 %

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Bune Practici in domeniul Eficientizarii Energiei

monitorizare completa si complexa a instalatiilor termice din 73 de cladiri publice

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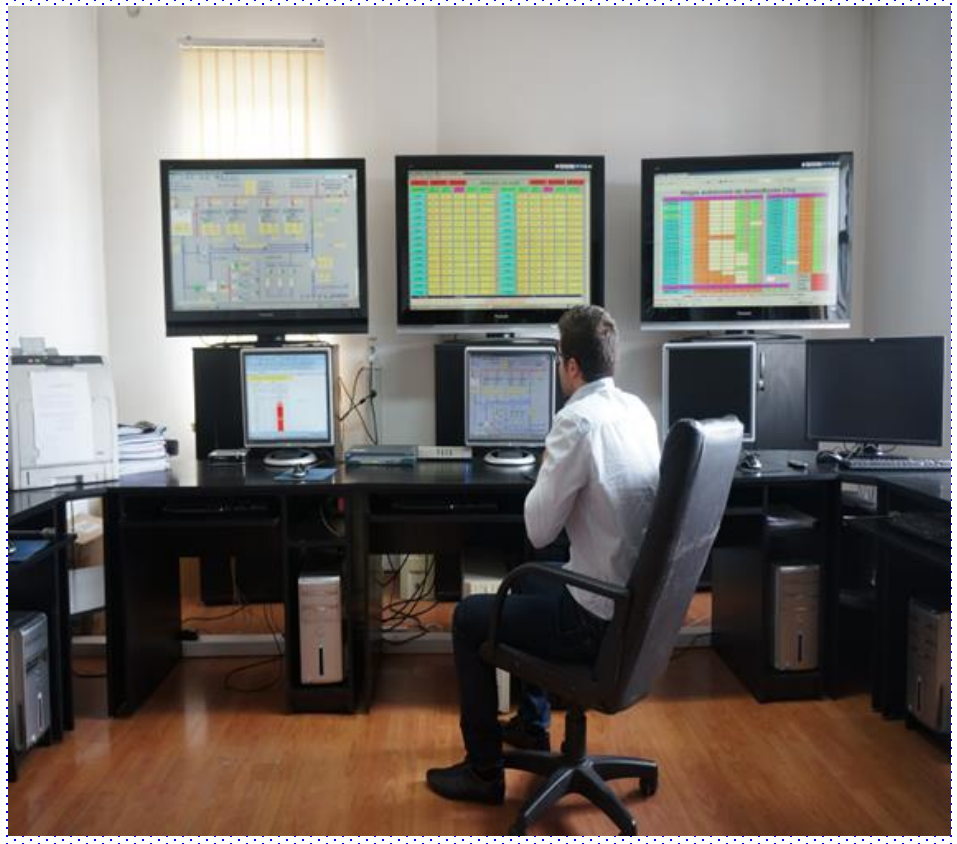

- ✓ Monitorizarea consumurilor de energie
- ✓ Monitorizarea tuturor parametrilor instalatiilor
- ✓ Monitorizarea evenimentelor
- ✓ Controlul functional al instalatiilor
- ✓ Evaluare, trenduri ale consumul de energie,
- ✓ Gestionarea pe centre de consum si cost
- ✓ Generare automata de rapoarte conform unei programari sau la cerere,

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Management energetic de buzunar

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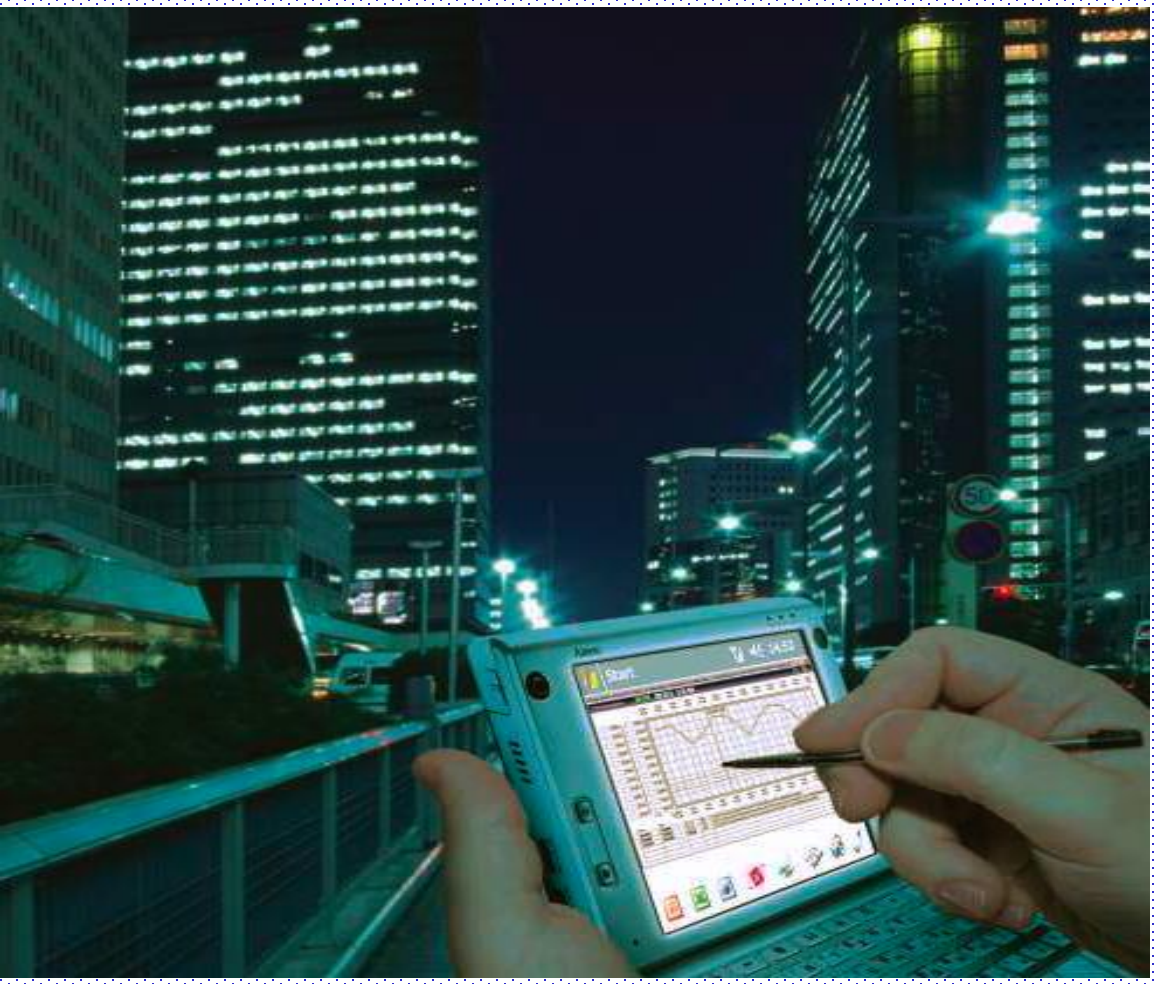

- ✓ Operare de la distanta cu ajutorul unui dispozitiv mobil
- ✓ Nu trebuie instalat un program special- structura de operare se creaza automat
- ✓ Informatiile accesate sunt protejate prin password
- ✓ Sunt administrate mesaje care ofera informatii detaliate despre evenimente
- ✓ Avertizare vizuala pentru orice alarmare (eveniment)

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Managementul instalatiilor termice – Cladiri publice

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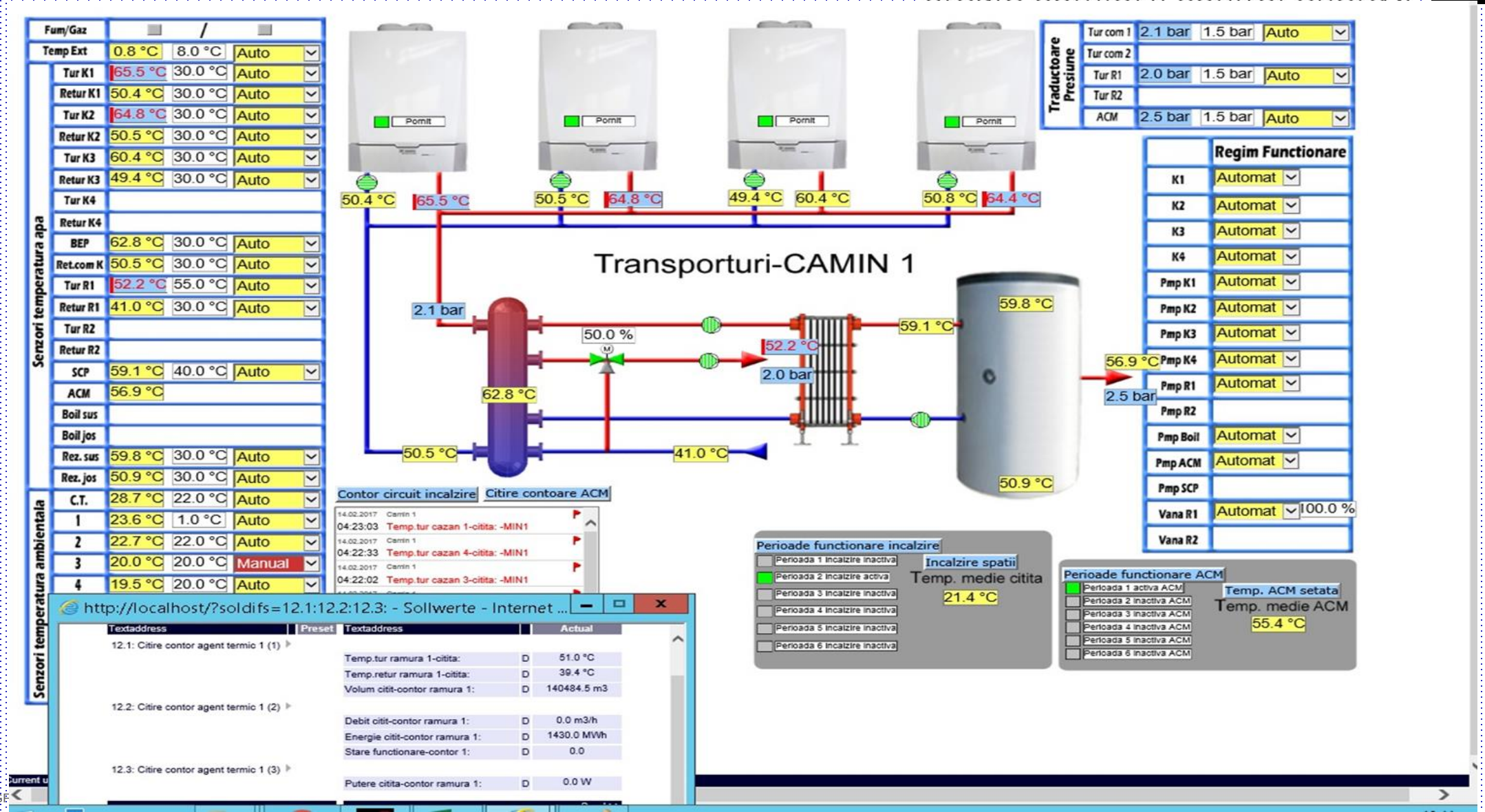

WEBVISION topologia sistemului

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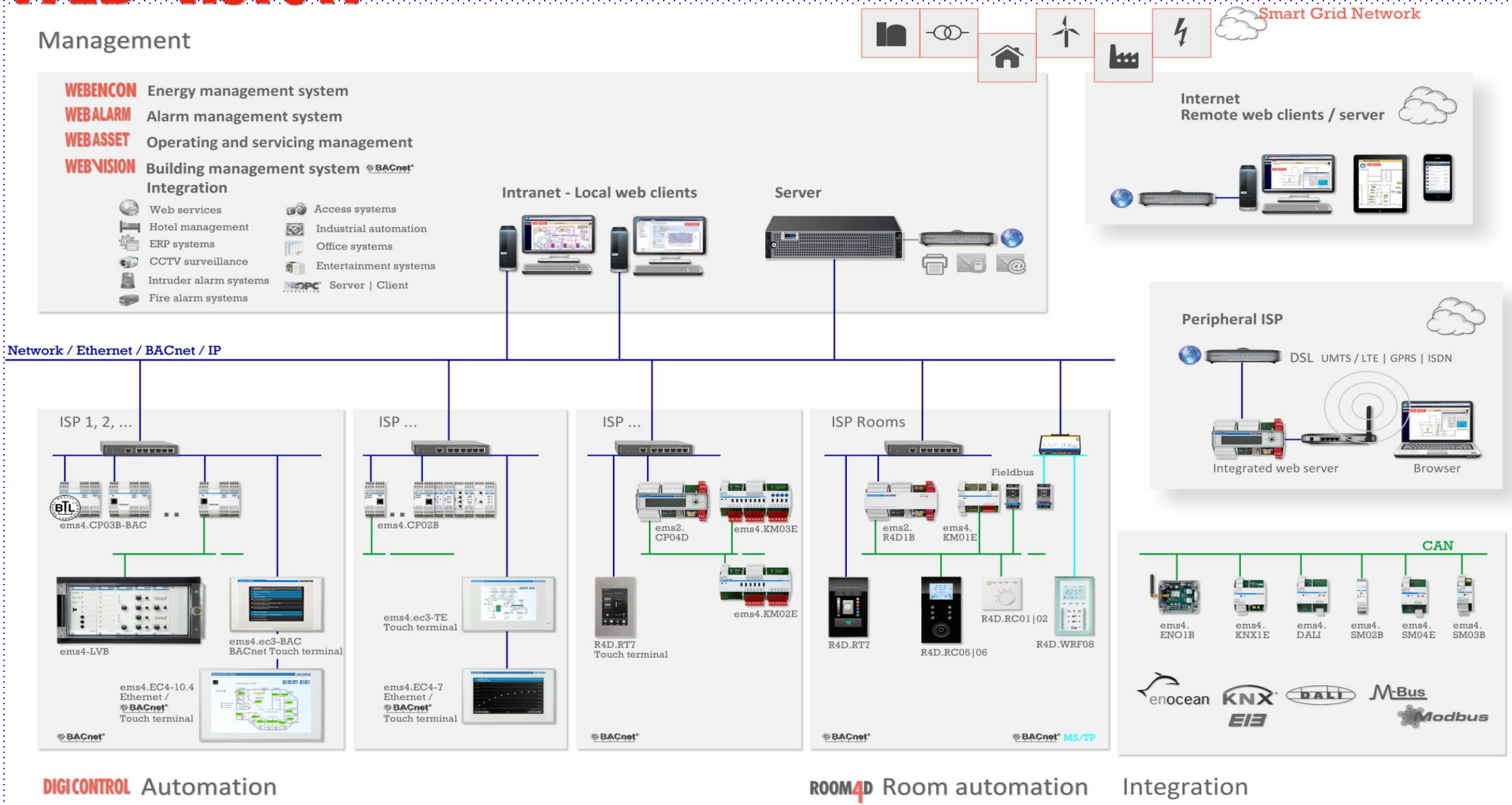

WEB ENCON

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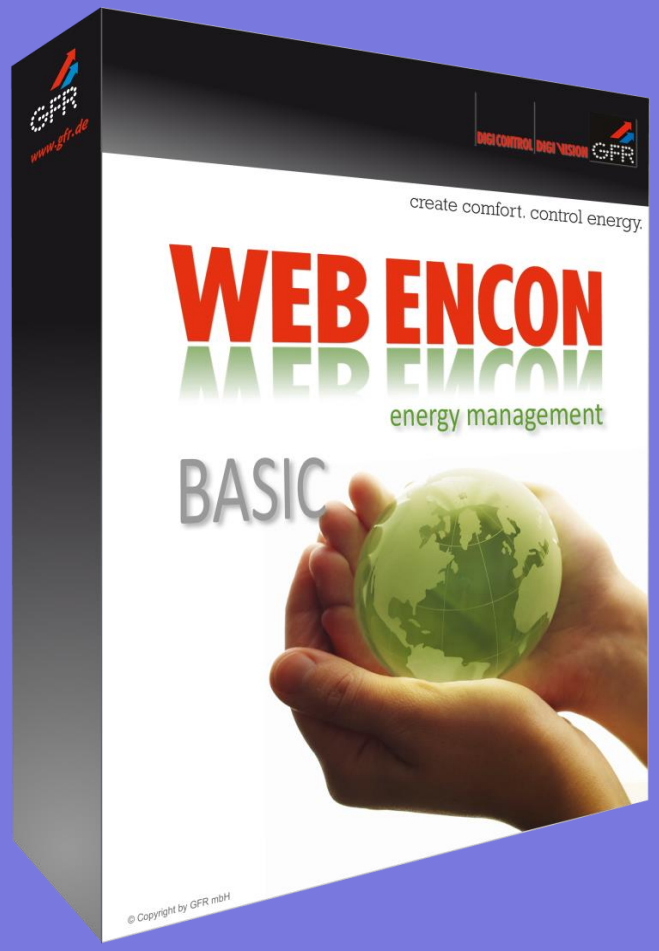

Managementul pentru eficientizarea si optimizarea energiei

CERTIFICAT ISO 50001

- **Conservarea resurselor**
- **Reducerea emisiilor de CO_2**
- **Reducerea costurilor energetice**
- **Controlul investiţiilor**
- **Afişarea în clar şi în mod ordonat a tuturor informaţiilor legate de energia consumată de clădire**
- **Bază de date pentru centrele de cost**
- **Componentă integratoare de automatizare şi de management al clădirii**

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Rezultatele implementarii sistemelor BMS

10 obiective – Cluj Napoca

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OBIECTIVE UNITATI DE INVATAMANT PREUNIVERSITAR	Consum gaz mc - 2015 ianuarie aprilie	Consum gaz mc - 2016 ianuarie aprilie	Economii gaz mc - 2016 ianuarie aprilie
Colegiul Tehnic Napoca	93.533	77.413	16.120
Liceul cu program sportiv	52.461	49.758	2.703
Colegiul Tehnic Raluca Ripan	80.302	64.373	15.929
Colegiul Tehnic de Transporturi	115.168	102.766	12.402
Colegiul Tehnic ,,Anghel Saligny,,	47.285	43.550	3.735
Colegiul Al. Borza	59.316	60.266	950
Liceul Informatica	83.964	79.999	3.965
Colegiul Energetic	124.471	103.449	21.022
Gradinita ,,Mamaruta,,	12.983	10.178	2.805
Liceul Arte Vizuale "Romulus Ladea"	26.938	23.826	3.112
	696.421	**615.578**	**80.843**

Sursa: Regia Autonama de Termoficare – Cluj Napoca

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Beneficiile implementarii solutiilor GFR & LISSCOM

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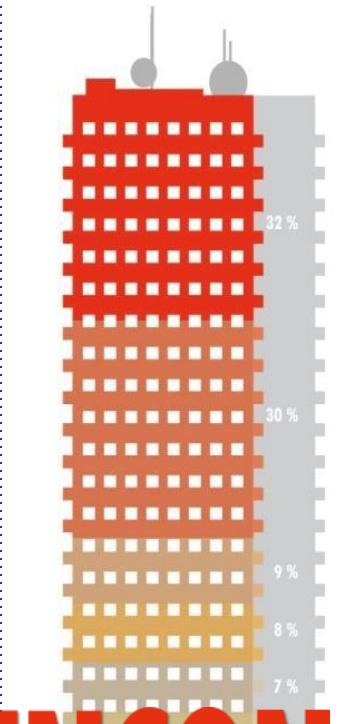
- Imbunatatirea continua a performantelor energetice pentru atingerea cerintelor standadului ISO 50001
- Experienta si studiile au demonstrat ca se pot economisi peste 30 % din cheltuielile generate de consumurile de energie si administrare a instalatiilor
- Vizualizarea concreta a situatiei consumului de energie determinand o politica si planificare energetica corecta si o imbunatatire continua
- Detectarea si intelegerea punctelor vulnerabile
- Baza de date completa pentru centrele de cost
- Verificarea performantelor investitiilor
- Conservarea resurselor energetice si reducerea emisiilor de CO_2

WEBVISION & WEBENCON



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Recunoasterea beneficiilor solutiilor LISSCOM

IQNet
THE INTERNATIONAL CERTIFICATION NETWORK

acreditat pentru CERTIFICARE
RENAR
SR EN ISO/CEI 17021:2011
CERTIFICAT DE ACREDITARE
SM 004

SR AC

C E R T I F I C A T

SRAC *certifică organizația/ certifies the organisation*

S.C. LISSCOM S.R.L.

Sediul social: Str. Neptun, nr. 10, sc. C, ap. 1, Brașov, jud. Brașov

Sediul de lucru: Șos. Cristianului, nr. 11, Brașov, jud. Brașov

pentru următoarele activități/
for the following fields of activities

Proiectare, execuție, instalare, mentenanță, upgradare, monitorizare, service și reparații pentru: instalații termice, ventilație, climatizare, sanitare, electrice, sisteme de automatizare, inclusiv sisteme de management energetic integrat. Soluții de management al clădirilor, al energiei, eficientizare energetică. Activități de verificări tehnice la instalații și echipamente

Design, execution, installation, maintenance, upkeeping, monitoring, servicing and repairing for: heating, ventilation, air-conditioning, sanitary, electrical installations, automation systems, including integrated energy management systems. Management solutions for buildings, energy, energy efficiency. Activities of technical verifications for installations and equipment

că are implementat și menține un **sistem de management al energiei** conform condițiilor din standardul

which has implemented and maintains an **energy management systems** which fulfils the requirements of the standard

SR EN ISO 50001:2011 (ISO 50001:2011)

Valabilitatea certificatului este condiționată de efectuarea supravegherilor anuale până la data de: 08-2015 N/A

nr. certificat/ certificate registration no. **14**
data inițială a certificării/ initial certification date **06 octombrie 2014**
data recertificării/ reissuing date -
data ultimei actualizări/ last update -
valabil până la/ valid until **02 septembrie 2016** (cu condiția vizării anuale)
SRAC CERT SRL, Str. Vasile Pârvan Nr. 14, Sector 1, București www.srac.ro

Director General
Ing. Mihaela Cristea

IQNet
THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and
SRAC
hereby certify that the organization

S.C. LISSCOM S.R.L.
Registered Office: Str. Neptun, nr. 10, sc. C, ap. 1, Braşov, jud. Braşov

Productive Unit: Şos. Cristianului, nr. 11, Braşov, jud. Braşov

for the following field of activities

Design, execution, installation, maintenance, upkeeping, monitoring, servicing and repairing for: heating, ventilation, air-conditioning, sanitary, electrical installations, automation systems, including integrated energy management systems. Management solutions for buildings, energy, energy efficiency. Activities of technical verifications for installations and equipment

has implemented and maintains an

Energy Management Systems

which fulfils the requirements of the following standard

ISO 50001 : 2011

Issued on : 2014 - 10 - 06
Validity date : 2016 - 09 - 02

Registration Number : RO - 0014

Michael Drechsel
President of IQNet

ing. Mihaela Cristea
SRAC General Manager

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Implementarea solutilor de Eficientizare a Energiei

2014 CERTIFICARE ISO 50001

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Recunoasterea meritelor LISSCOM la nivel national

create comfort. control energy.

“ Premiul de excelenta in energie 2017 “

la sectiunea

EFICIENTIZAREA ENERGIEI

“ Premiu pentru cel mai bun Program de Eficientizare 2017 “

la sectiunea

EFICIENTIZAREA ENERGIEI

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Parteneri GFR - Germania

GFR este reprezentată de 60 de parteneri din Germania şi din lumea întreagă

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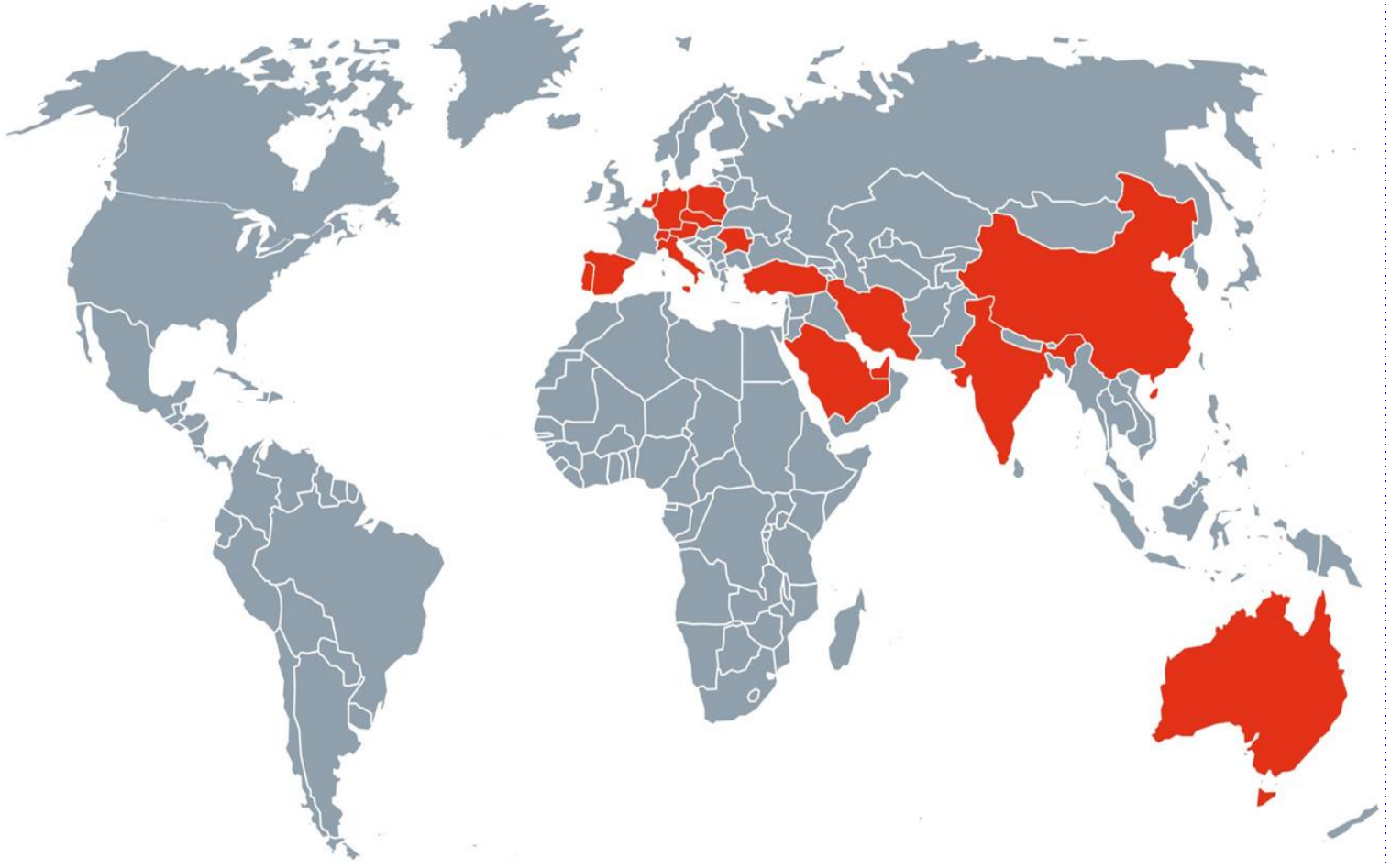

Germania
Belgia
Olanda
Elveţia
Austria
Spania
Portugalia
Italia
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Ungaria
Polonia
România
Moldova
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LISSCOM
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Building Management System
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LISSCOM & GFR

MULTUMIM PENTRU ATENTIE !

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09.2018

Stefan OPRIS