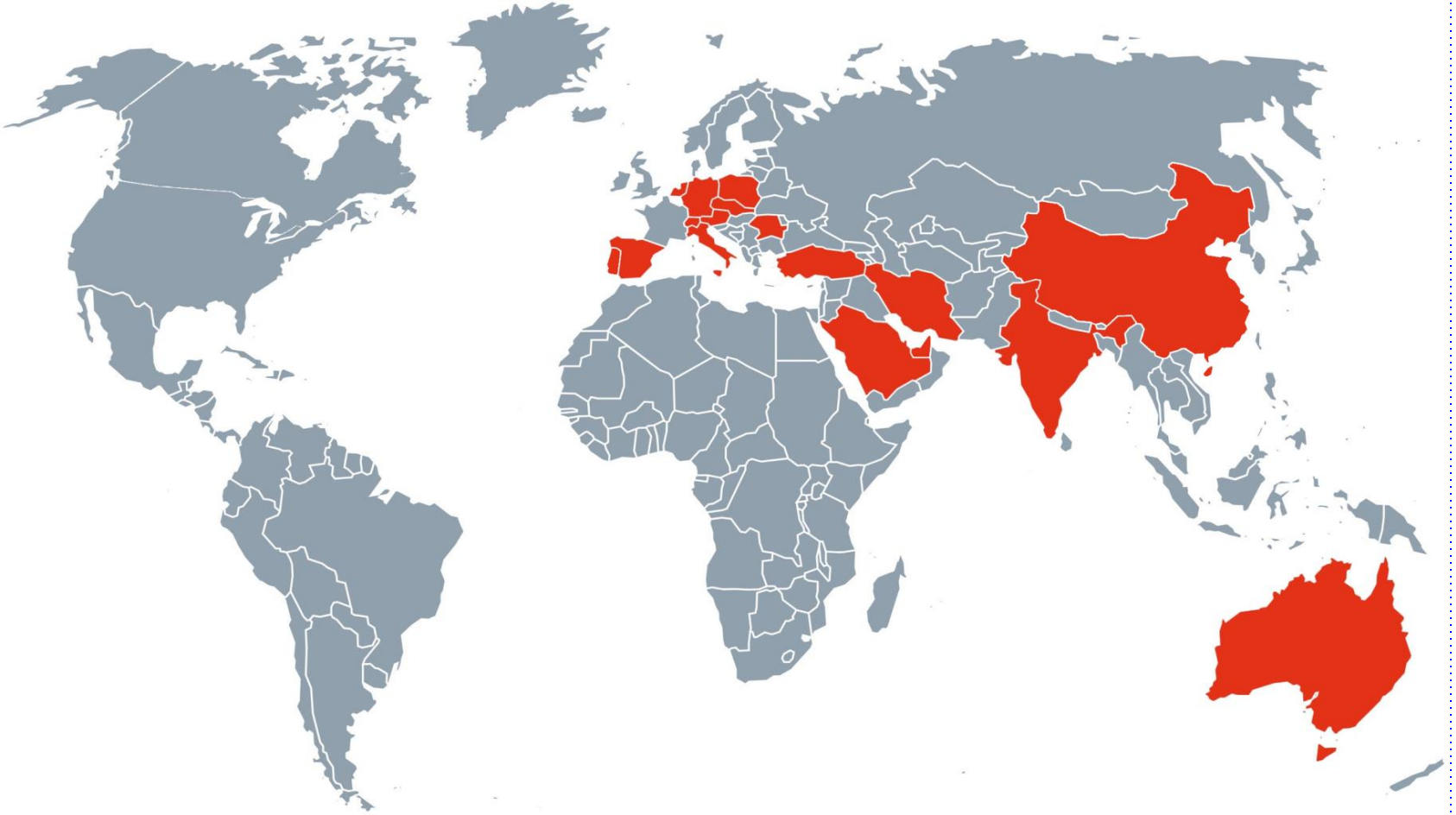
LISSCOM
încălzire - răcire
Building Management Systems
Necesar în orice anotimp
LISSCOM & GFR
va prezinta :
SISTEM SMART DE GESTIONARE SI MANAGEMENT ENERGETIC
BUCURESTI
2017
creaza confortul. controleaza energia
Gesellschaft Für Regelungstechnik
und Energieeinsparung mbH
GFR

PARTENERI GFR

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



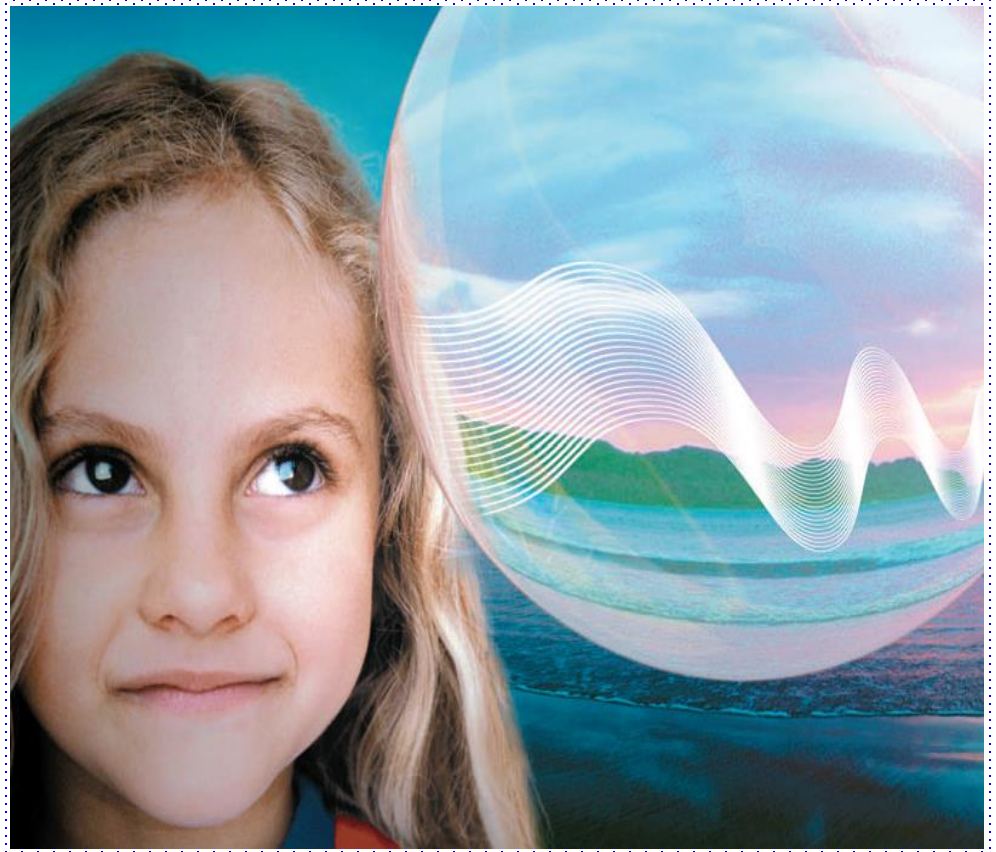
Germania
Belgia
Olanda
Elveţia
Austria
Spania
Portugalia
Italia
Republica Cehă
Ungaria
Polonia
România
Moldova
Turcia
Australia
India
China
Brazilia
Canada

LISSCOM
încălzire - răcire
Building Management System
NECESAR IN ORICE ANOTIMP

Preocupari majore GFR & LISSCOM

create comfort. control energy.

- automatizarea instalatiilor si echipamentelor din clădirilor
- managementul clădirilor
- automatizari industriale
- managementul energiei, eficientizare si optimizare



COMPANIA GFR

- 35 de ani de inovatii pentru economisirea energiei
- 35 de ani de inovatii pentru micşorarea emisiilor de CO_2
- GFR este membru al grupului de companii WIEDEMANN unul dintre cei mai importanţi furnizori de automatizări ale clădirilor casnice şi industriale

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Conceptele GFR & LISSCOM

create comfort. control energy.

- software inovator de monitorizare, control si management energetic al instalatiilor din clădiri
- soluţii creative pentru eficienţa energetică cu posibilitatea personalizarii sistemelor HVAC
- soluţii creative care iau în considerare atât buma functionare a instalatiilor, cât şi aspectele economice şi cerintele pentru eficientizarea energetică
- soluţiile creative de automatizare şi de management pentru orice tip de cladire

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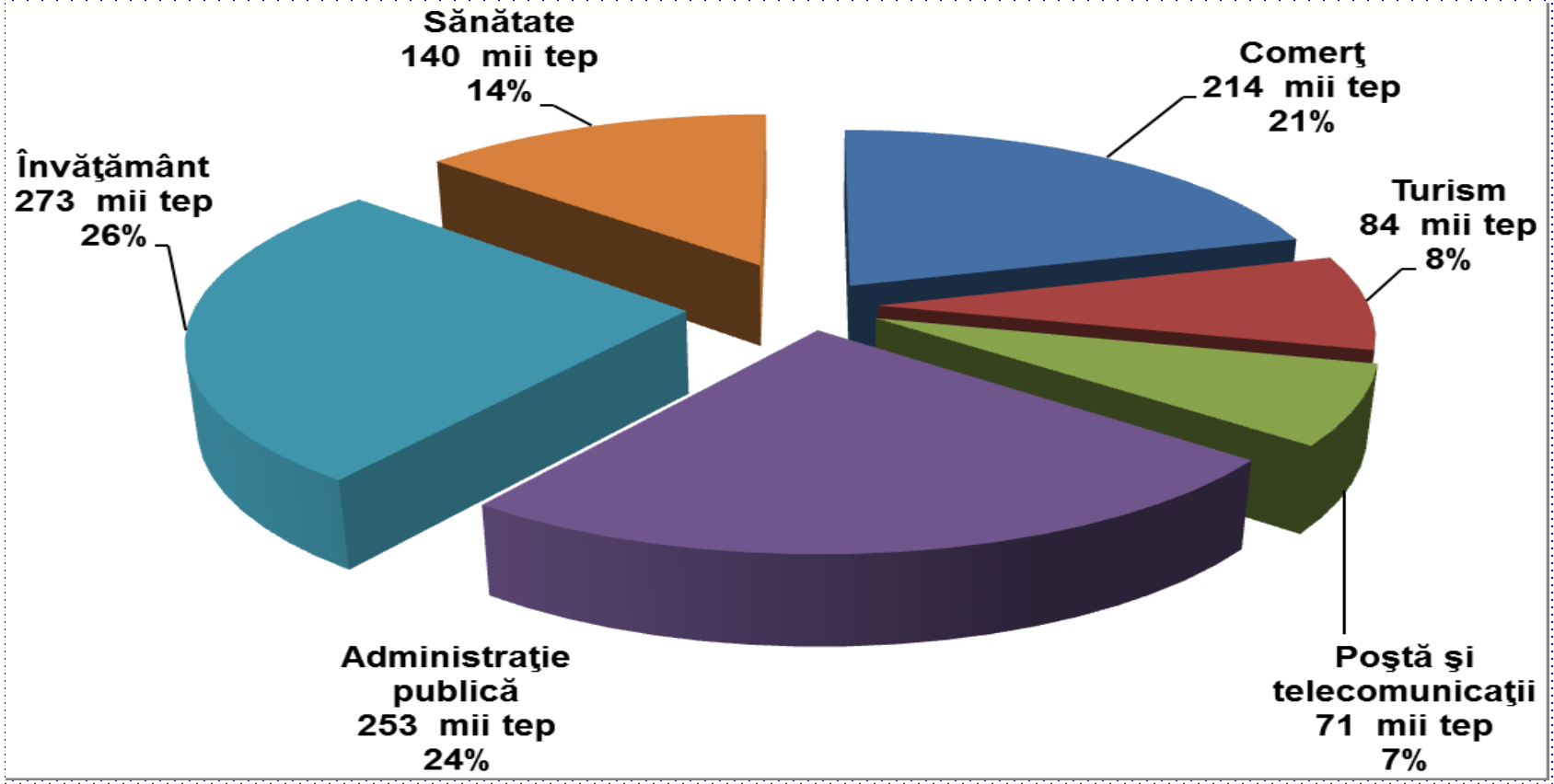
CONSUM DE ENERGIE IN CLADIRI NEREZIDENTIALE



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)

SOLUTII SMART CITY

sisteme de siguranta si confort al cetateanului

- Supraveghere stradala SMART
- Parcari SMART
- Transport public SMART
- Servicii publice SMART
- Recuperare deseuri SMART
- Irigare spatii verzi SMART
- Control trafic SMART
- Call center SMART
- Sistem informational SMART
- Sistem WI-FI SMART
- Treceri de pietoni SMART
- Serviciu public de alertare SMART
- Etc……

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SOLUTII SMART CITY

sisteme de eficientizare energetica a orasului

- Siteme de gestionare SMART a instalatiilor din cladiri
- Contorizare – dispecerizare SMART
- Sisteme producere de energie SMART
- Sisteme distributie de energie SMART
- Locuinte SMART
- Procese tehnologice SMART
- Alimentari cu apa SMART
- Iluminat stradal SMART
- Etc……

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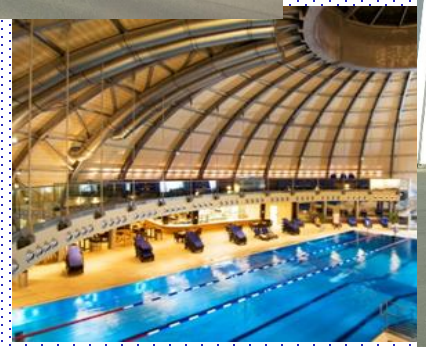
Implementare Proiect SMART Cluj Napoca
73 de cladiri publice

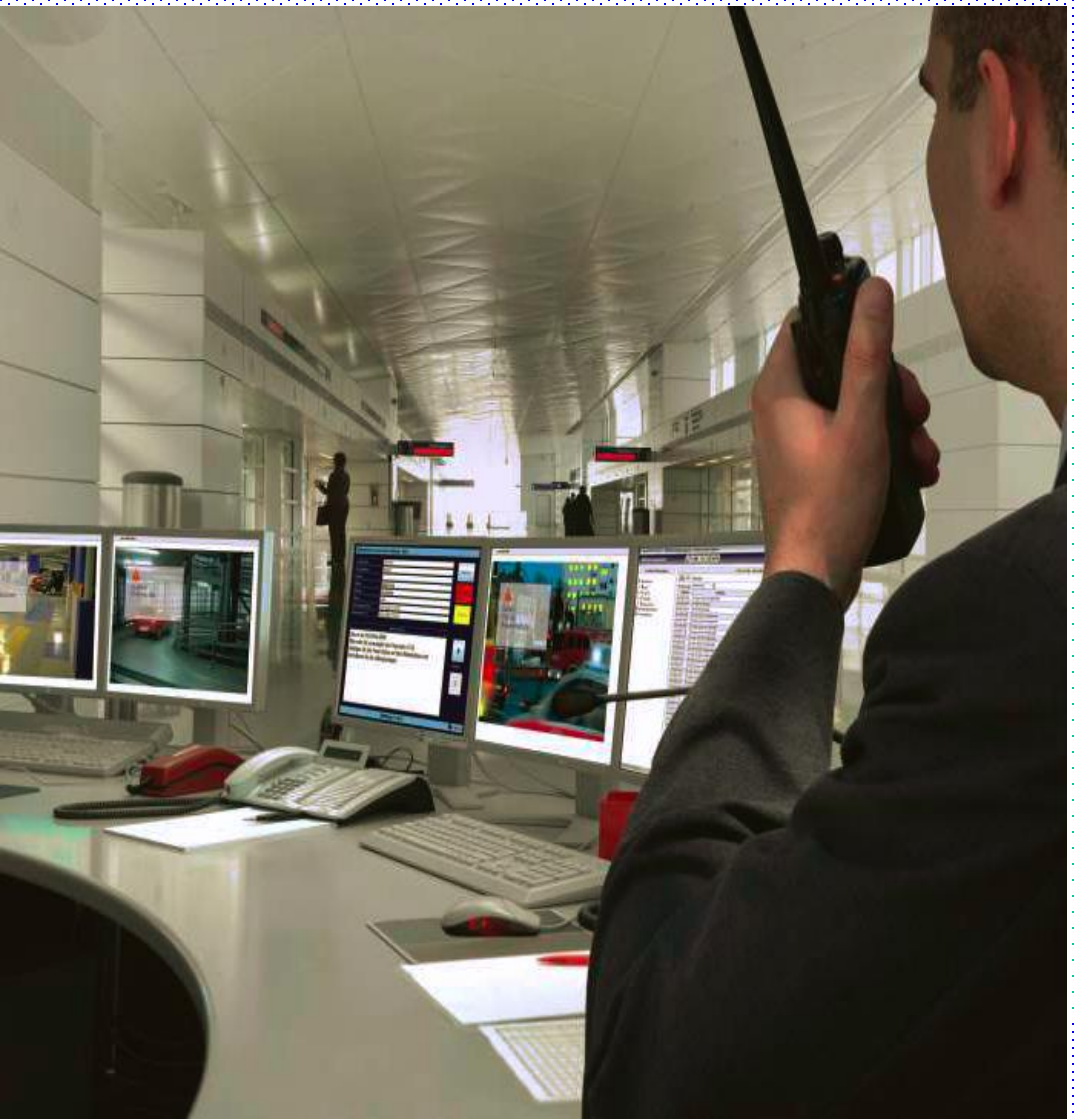


scoli
universitati
camine
cantime
sali de sport
gradinite
ansamblu de blocuri

DATA CENTER ENERGETIC (dispecerat)

monitorizare completa si complexa a instalatiilor termice

create comfort. control energy.



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

Aplicatie Management instalatii termice – Cluj Napoca

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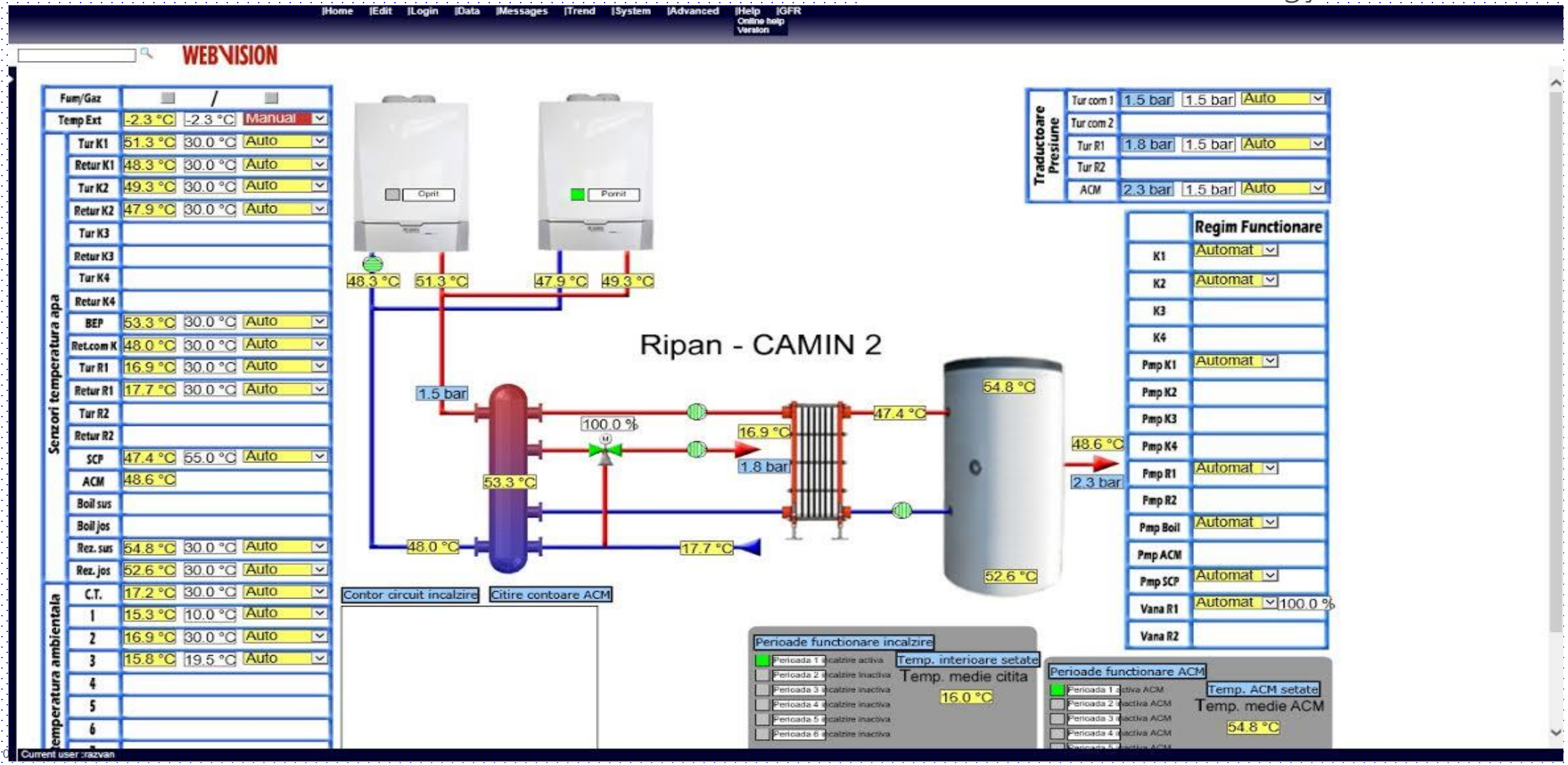
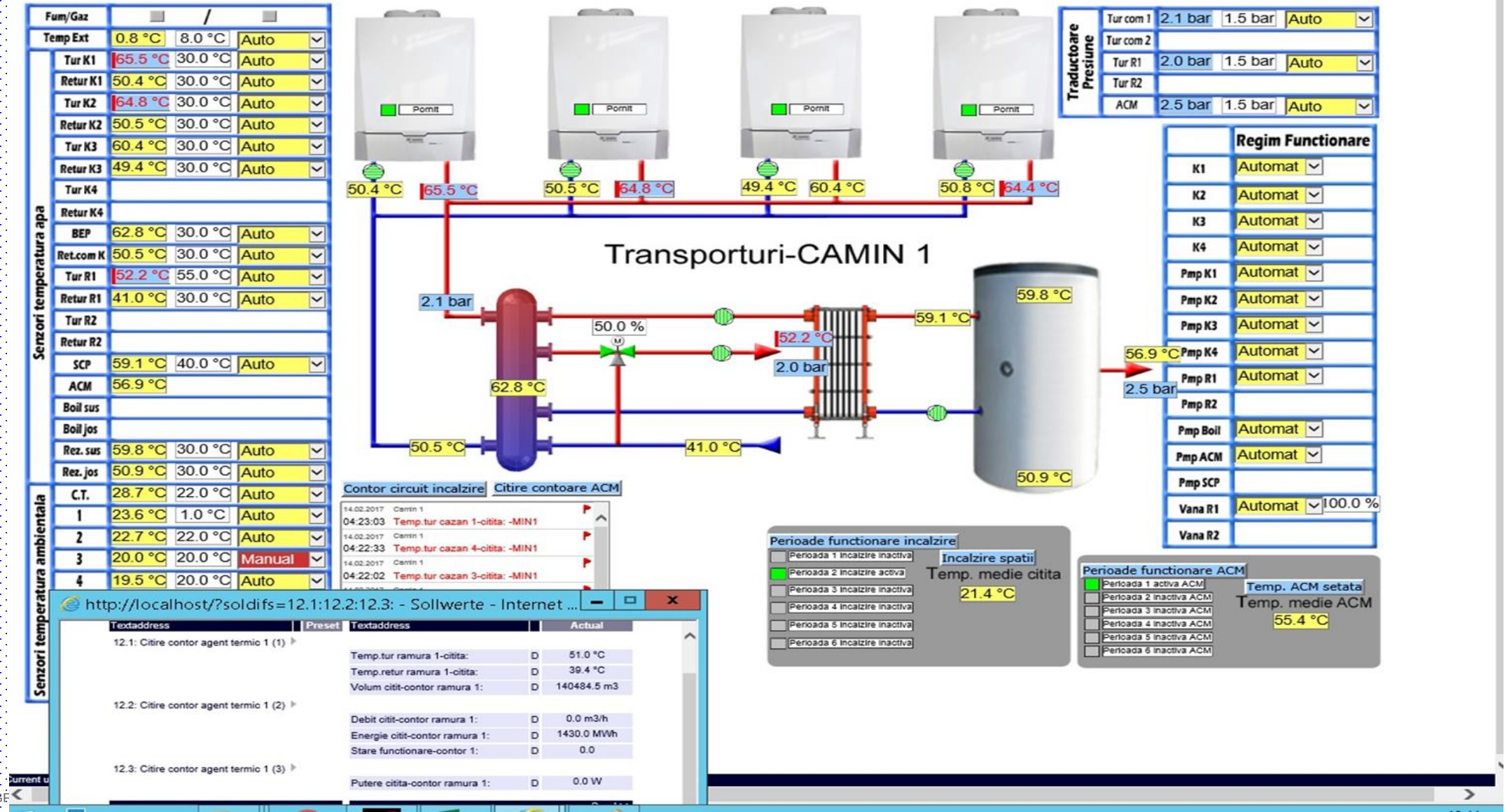


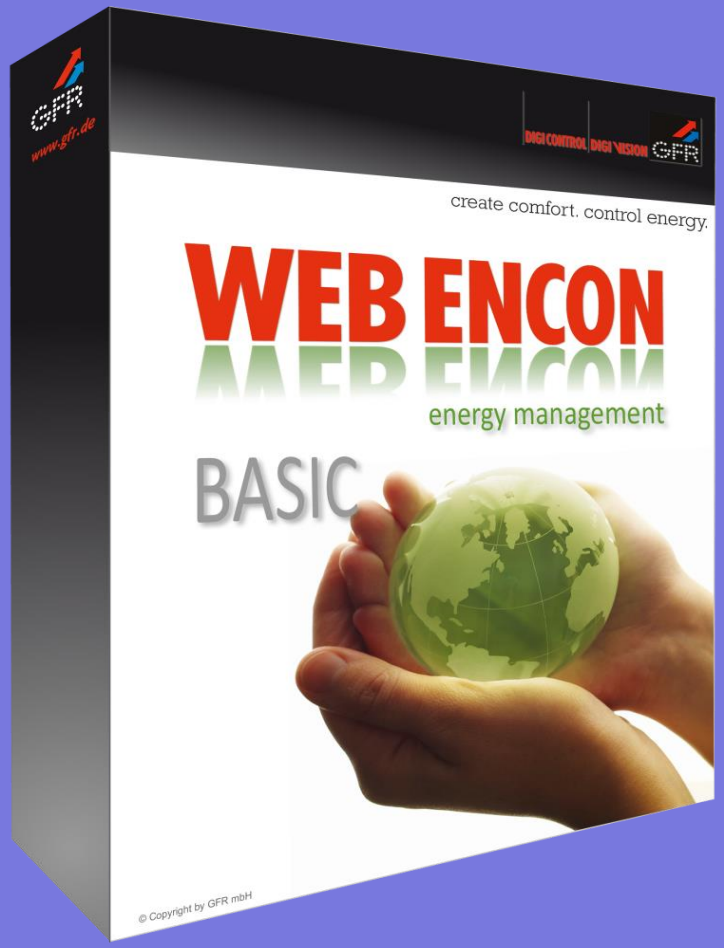
Aplicatie Management instalatii termice – Cluj Napoca

create comfort, control energy



WEB ENCON

create comfort. control energy. energy.



managementul energiei

- **Conservarea resurselor**
- **Minimizarea 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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Modul de administrare

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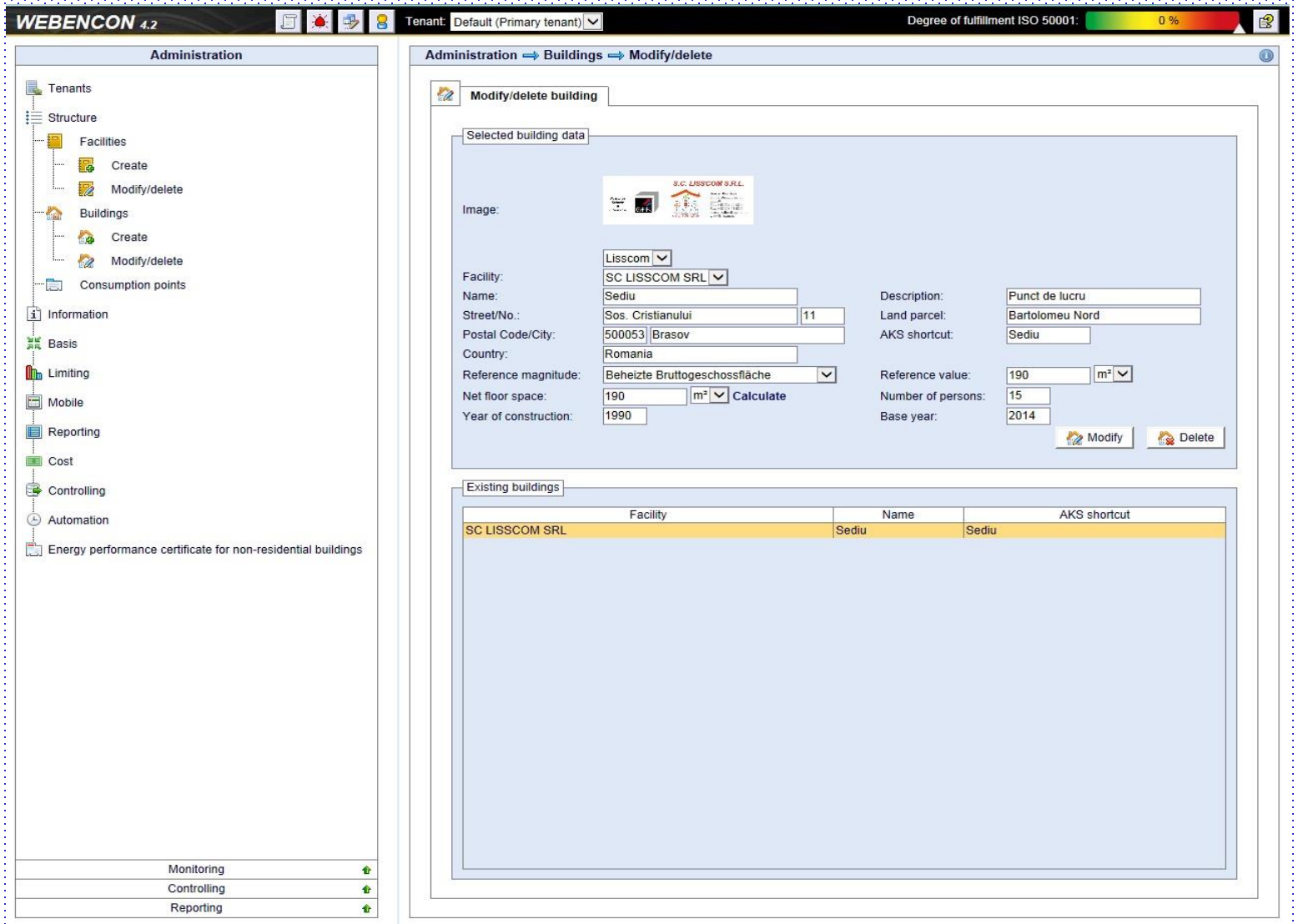

- Crearea si administrarea punctelor de consum si a centrelor de cost
- Achizitie de date si stocarea lor sistematica
- Administrarea utilizatorilor
- Gestionarea Jurnalului de evenimente
- Administrarea alarmelor
- Crearea de contoare virtuale

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Modul de costuri

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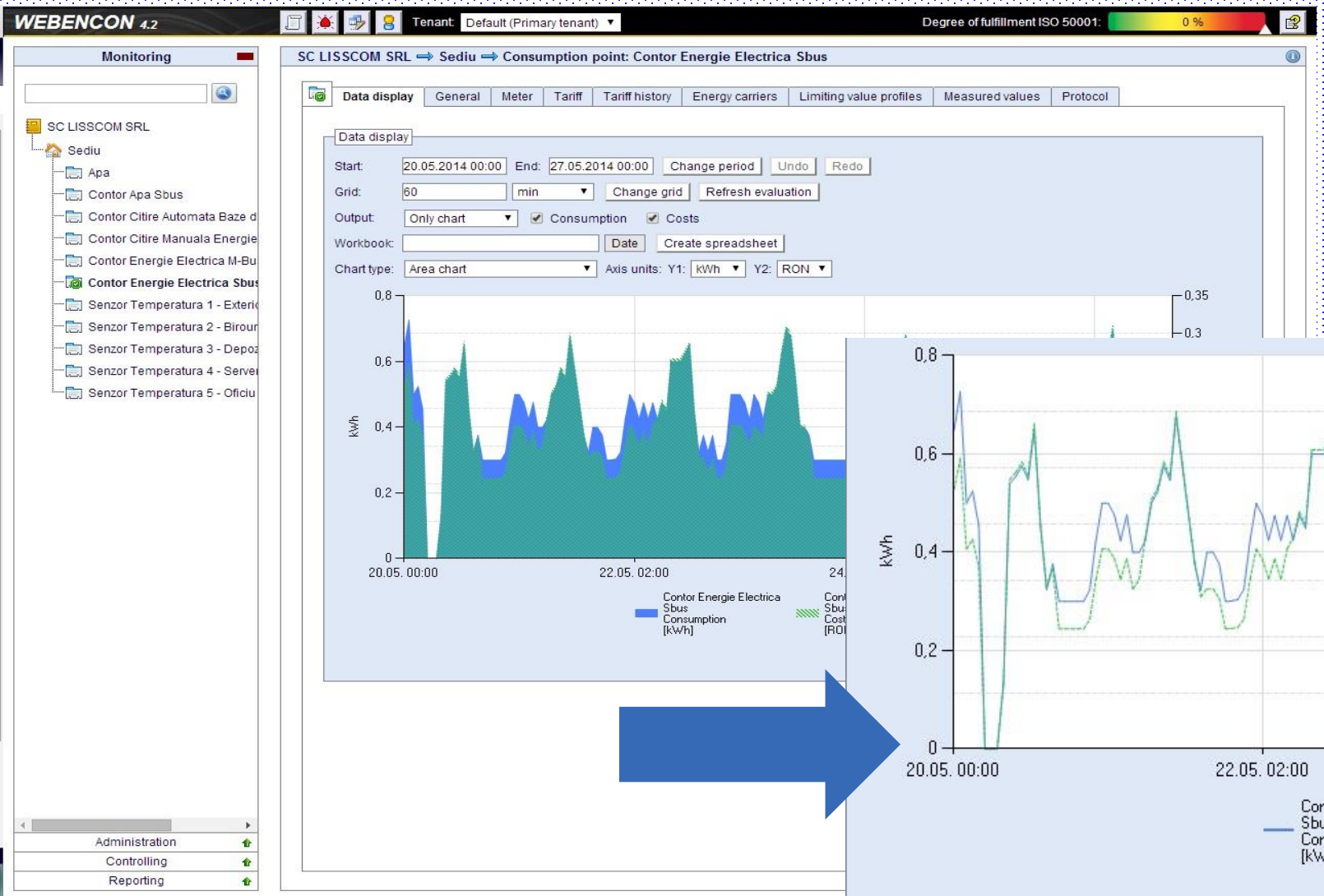
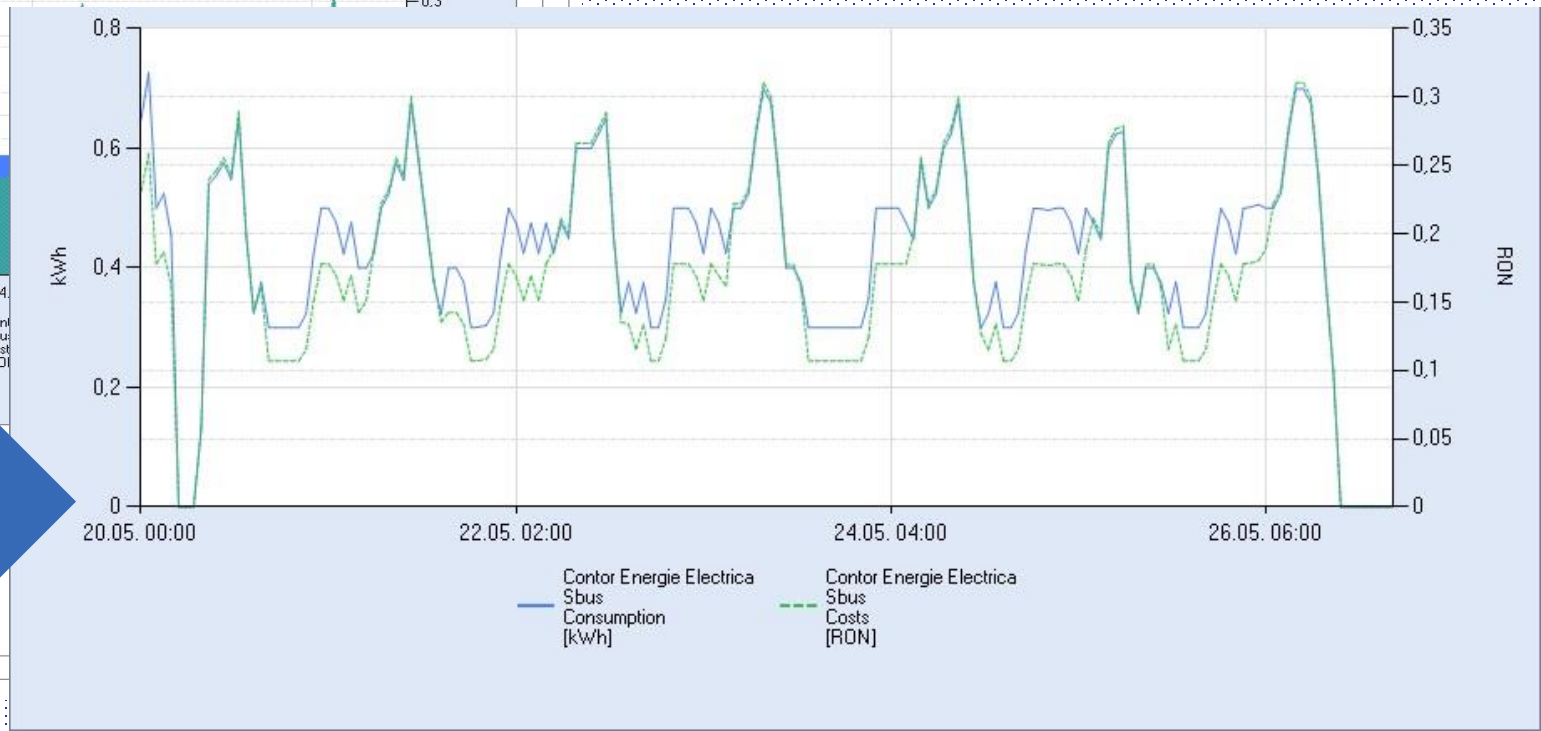


VIZUALIZARE PERMANENTA

- puncte de consum
- centre de cost



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Modul de monitorizare limite

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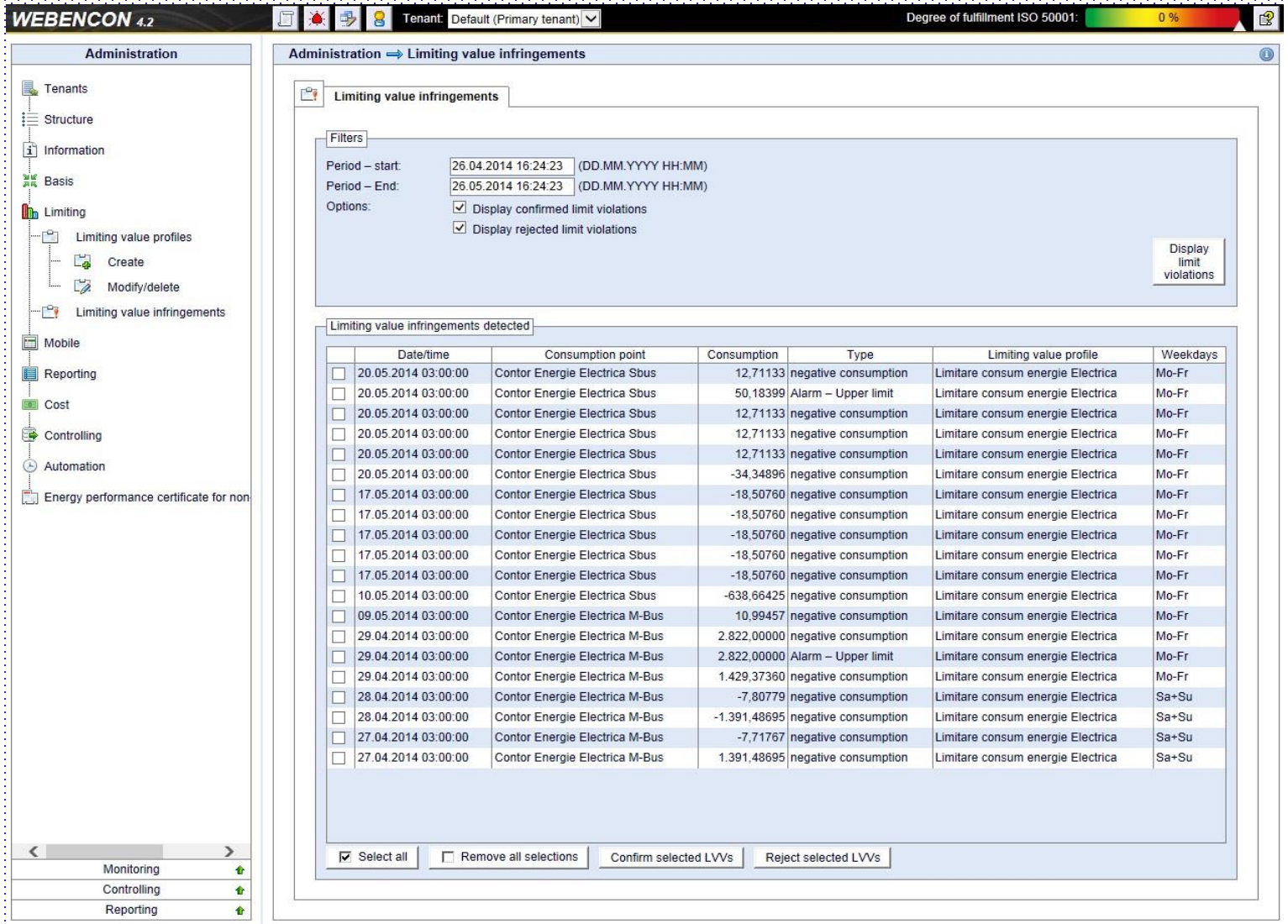

MONITORIZEAZA VOLORILE LIMITA

- Crearea si administrarea de profile individuale de limitare
- Valori limita dependente de anumite functii
- Adaptarea volorilor limita dupa un istoric
- Generarea de mesaje: e-mail, fax, SMS

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Modul de control al sistemelor

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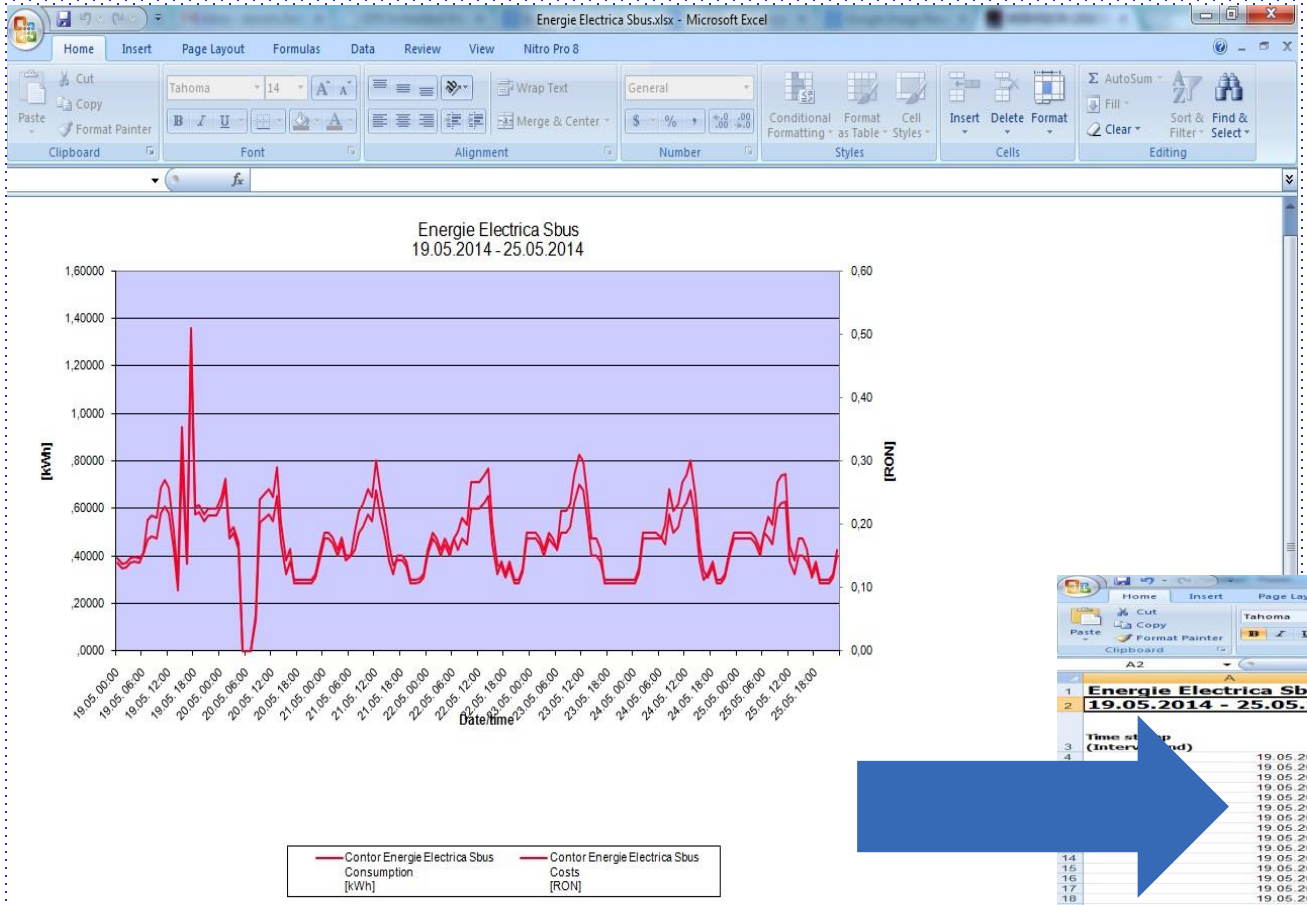
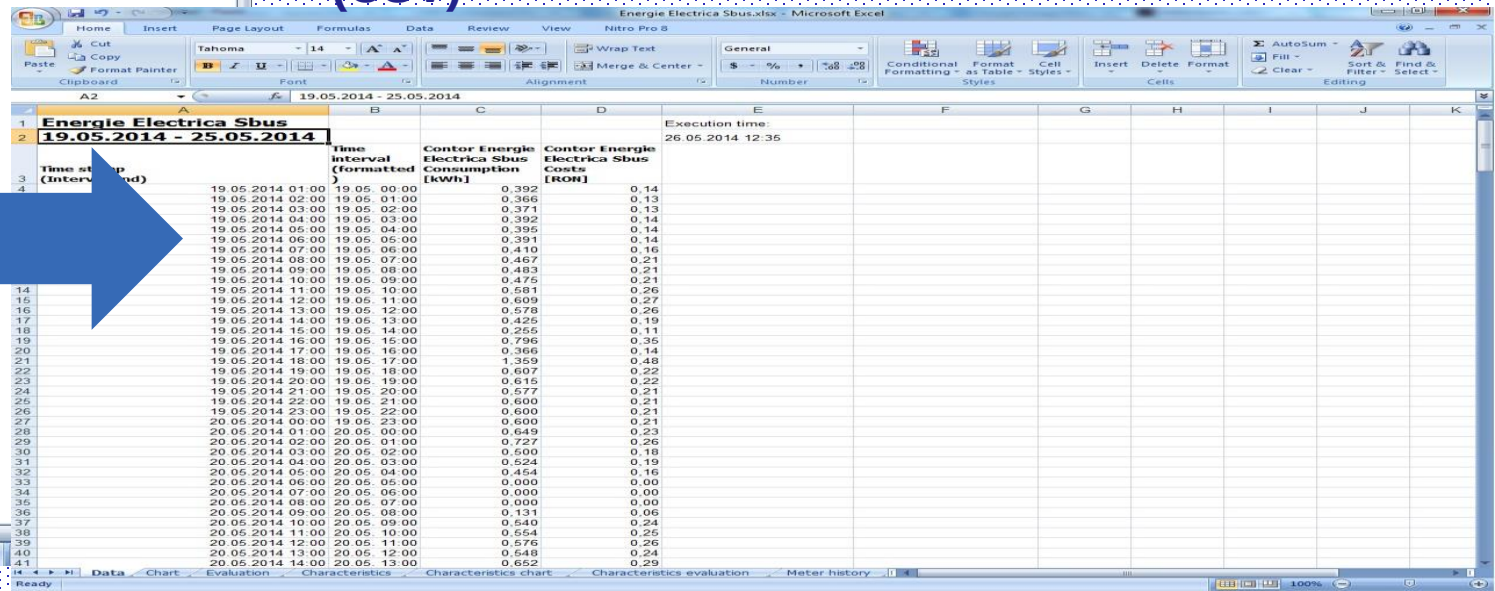


ANALIZEAZA SI VERIFICA VOLORILE CONSUMULUI

- Generare de consumuri, costuri
- Creare de structuri pe fisiere individuale
- Executarea evaluarilor in mod automat
- Diagrame ale costurilor si al consumului
- Generarea de tendinte
- Generare de evaluari pe E-mail in mod automat
- Exportare in programe office si baze de date (CSV)



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Modul de gestionare a costurilor

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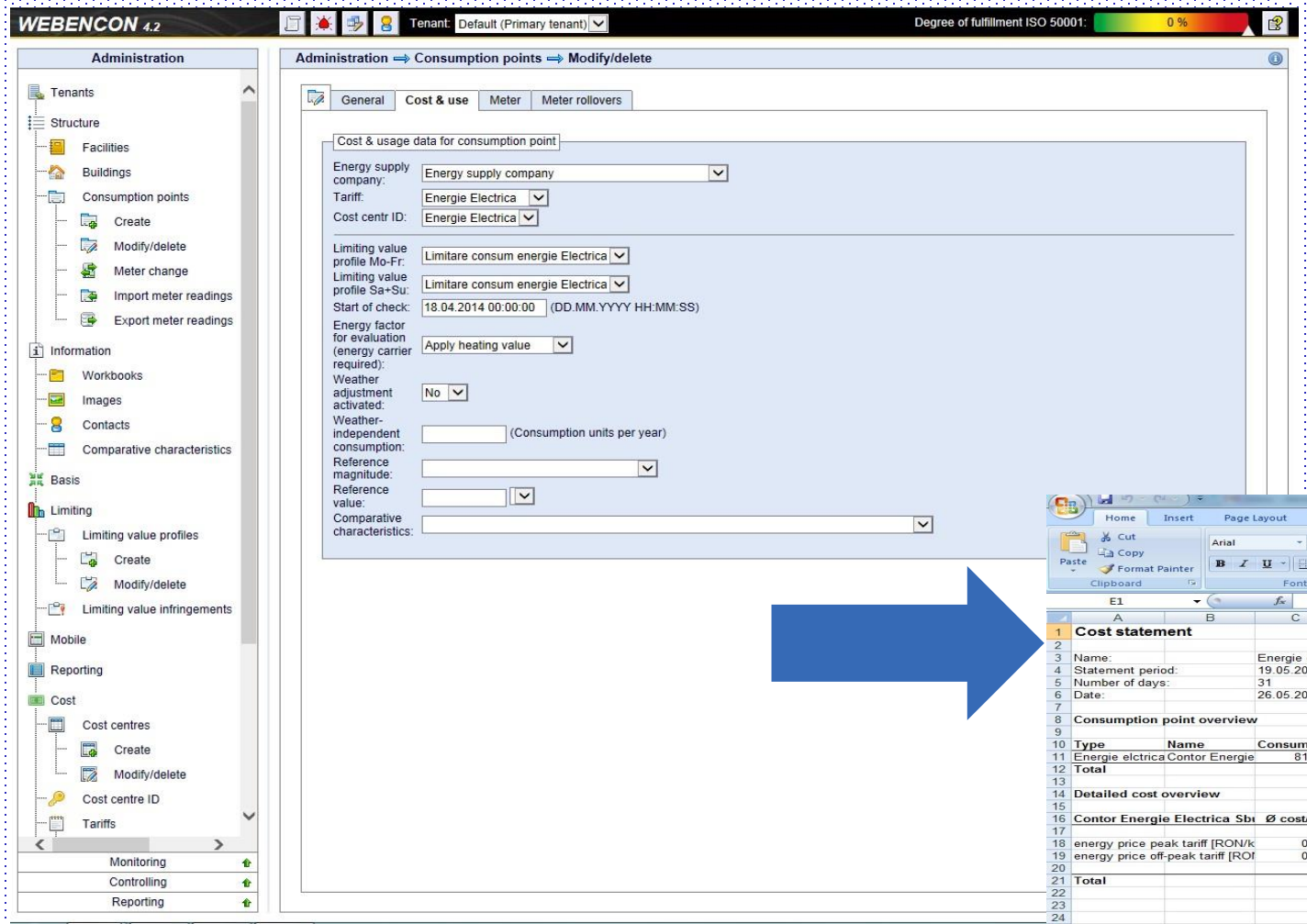

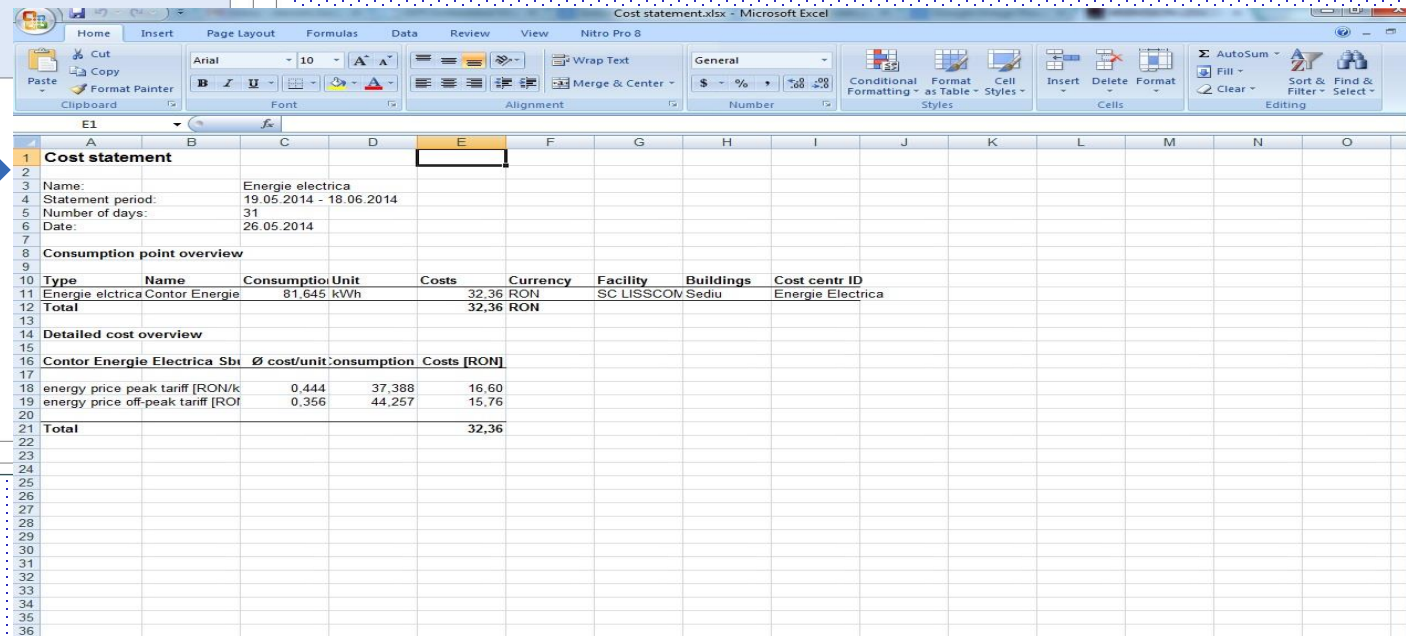

ANALIZEAZA SI AFISEAZA COSTURILE

- Crearea si administrarea de tarife individuale
- Lucrul cu IDuri pentru centre de cost
- Importare si vizualizare de contracte
- Extesii functionale ale modulelor de control
- Interfata office pentru departamentul de contabilitate

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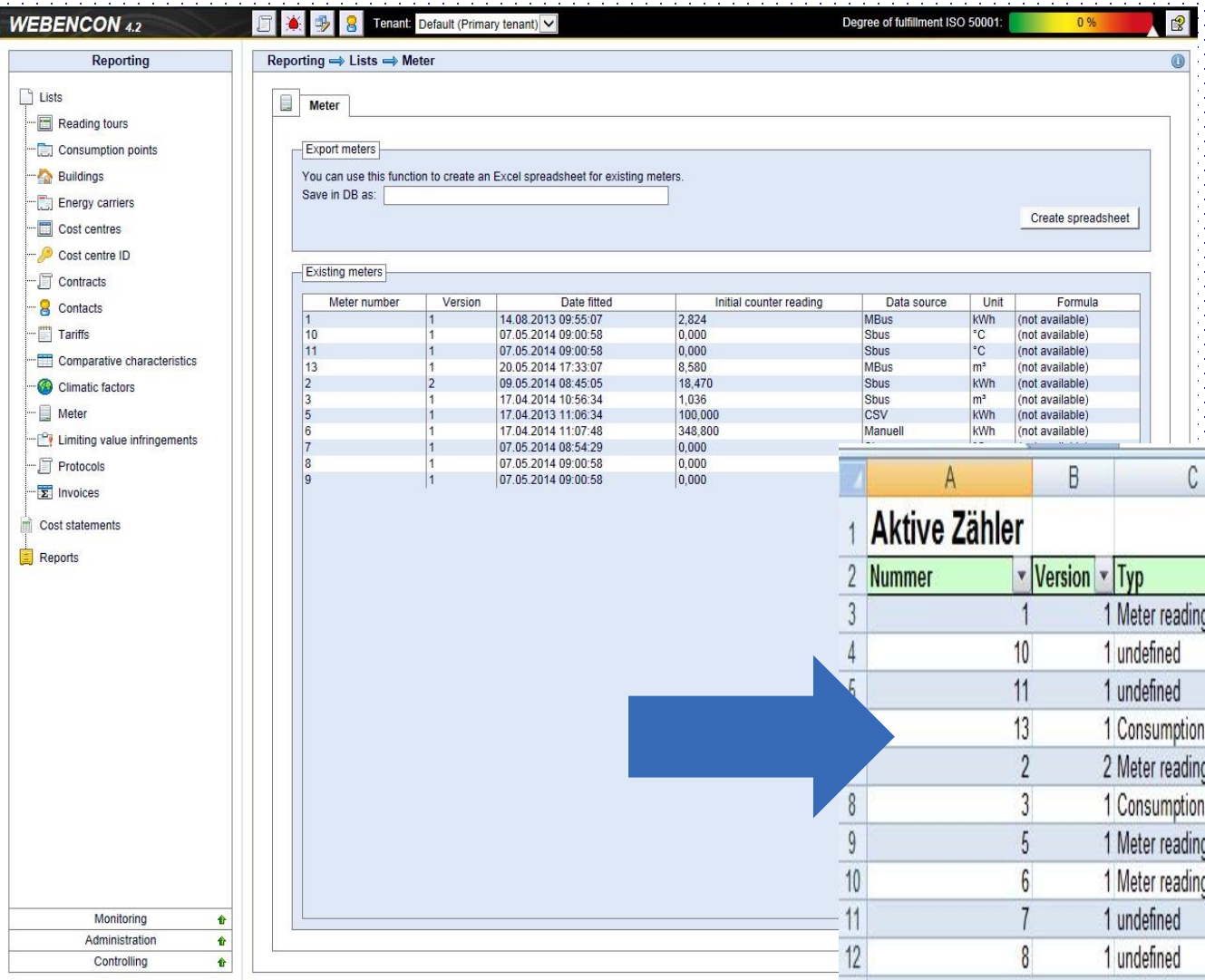
Modul de raportari

create comfort. control energy.



RAPORTEAZA PERMANENT DATELE ENERGETICE

- Rapoarte de cost pe centre de cost sau consum
- Generare automata a rapoartelor de cost
- Crearea si administrarea de rapoarte individuale
- Generare de rapoarte de cost pe E-mail in mod automat
- Exportare in programe office

	A	B	C	D	E	F	G	H	I	J
1	Aktive Zähler									
2	Nummer	Version	Typ	Hersteller	Wandlerkonstante	Einheit	Datenquelle	Adresse	Standort	Einbaudatum
3	1	1	Meter reading counter	XXX	1	kWh	MBus	WEBENCON/2/3/1391361/3/82/1	Depozit	14.08.13 09
4	10	1	undefined	GFR - Digicontrol	1	°C	Sbus	WEBENCON/2/3/1323266/3/82/1	Sediu Lisscom	07.05.14 09
5	11	1	undefined	GFR - Digicontrol	1	°C	Sbus	WEBENCON/2/3/1388802/3/82/1	Sediu Lisscom	07.05.14 09
6	13	1	Consumption meter	GFR	1	m³	MBus	WEBENCON/2/3/1327363/3/83/2	(not available)	20.05.14 17
7	2	2	Meter reading counter	XXX	1	kWh	Sbus	WEBENCON/2/3/1393409/3/84/3	Depozit	09.05.14 08
8	3	1	Consumption meter	XXX	1	m³	Sbus	WEBENCON/2/3/1327361/3/82/1	(not available)	17.04.14 10
9	5	1	Meter reading counter	XXX	1	kWh	CSV	(not available)	Sediu Lisscom	17.04.13 11
10	6	1	Meter reading counter	XXX	1	kWh	Manuell	(not available)	Sediu Lisscom	17.04.14 11
11	7	1	undefined	GFR - Digicontrol	1	°C	Sbus	WEBENCON/2/3/1323265/3/82/1	Sediu Lisscom	07.05.14 08
12	8	1	undefined	GFR - Digicontrol	1	°C	Sbus	WEBENCON/2/3/1323268/3/82/1	Sediu Lisscom	07.05.14 09
13	9	1	undefined	GFR - Digicontrol	1	°C	Sbus	WEBENCON/2/3/1323267/3/82/1	Sediu Lisscom	07.05.14 09

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Management energetic de buzunar

create comfort. control energy.

- ✓ 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)

Zone de aplicare a Managementului Instalatiilor

create comfort. control energy.

- Industrie
- Comerţ
- Educaţie şi ştiinţă
- Sănătate şi îngrijire medicala
- Sport, cultură şi timp liber
- Afaceri hoteliere şi gastronomie
- Ansambluri de locuinţe
- Centrale electrice şi energii regenerabile
- Furnizori de utilitati si servicii
- Trafic, control acces, supraveghere video
- Armată şi securitate

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DIGI CONTROL

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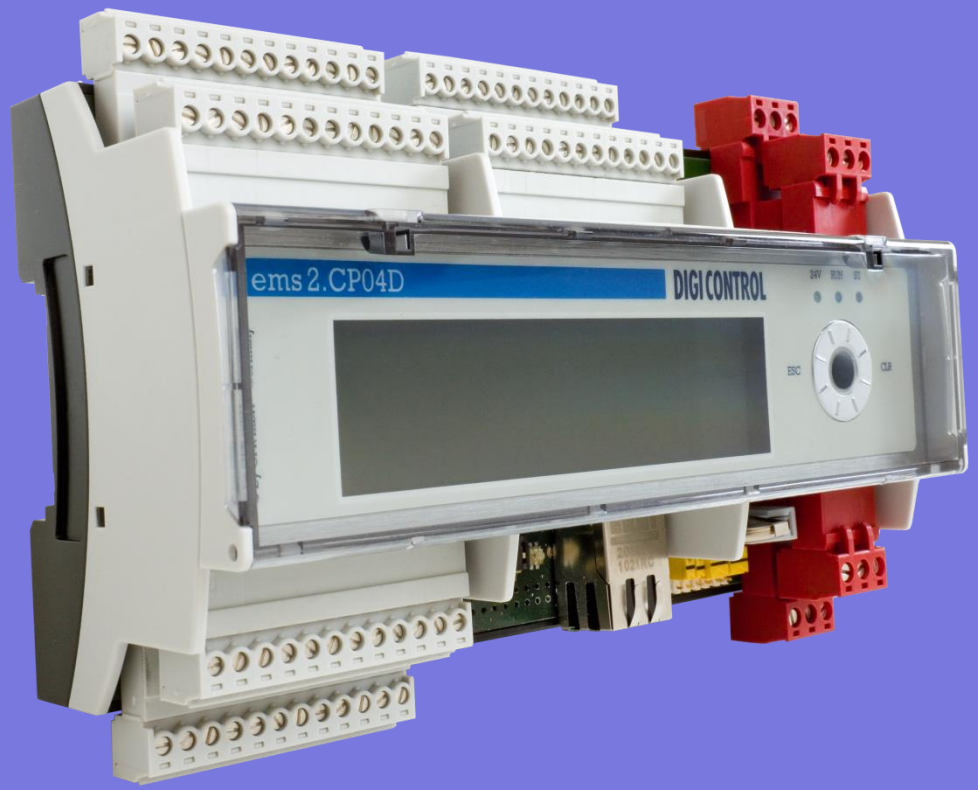

automatizare clădiri

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automatizare clădiri

module

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DIGI CONTROL

- sisteme de automatizare ale clădirilor cu interoperabilitate între echipamentele provenite de la diferiţi producători.

Automation stations

ems2.CP04D

ems2.R4D1B

ems4.CP03B.BAC

ems4.CP02B

Displays

ems4.ec2

ems4.ec3-TE

ems4.ec3-BAC

ems4.EC4-7

ems4.EC4-10.4

R4D.RT7

R4D.RC05/06

Integration modules

ems4.SM02B

ems4.SM04E

ems4.SM03B

ems4.KNX1E

ems4.DALI

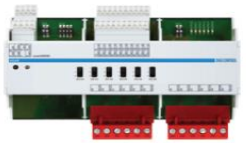
ems4.ENO1B

Integration

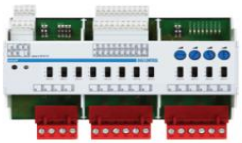
M-Bus M-Bus Modbus KNX EIB DALI enocean

Multifunction modules

ems4.KM01E



ems4.KM02E



ems4.KM03E

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automatizare clădiri

module

DIGI CONTROL

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System module

ems4.DE00F

Digital input module

ems4.DE01B

ems4.DE02B

ems4.DE02F

ems4.DE03B

Digital output modules

ems4. DA01B

DA02B

DA02H

DA02F

DA03H

DA03F

DA04H

DA04F

Analogue input modules

ems4.AE01B

ems4.AE02B

ems4.AE03B

ems4.AE04B

Analogue output modules

ems4.AA01B

ems4.AA02B

ems4.AA03H

ems4.AA03F

ems4.AA04F

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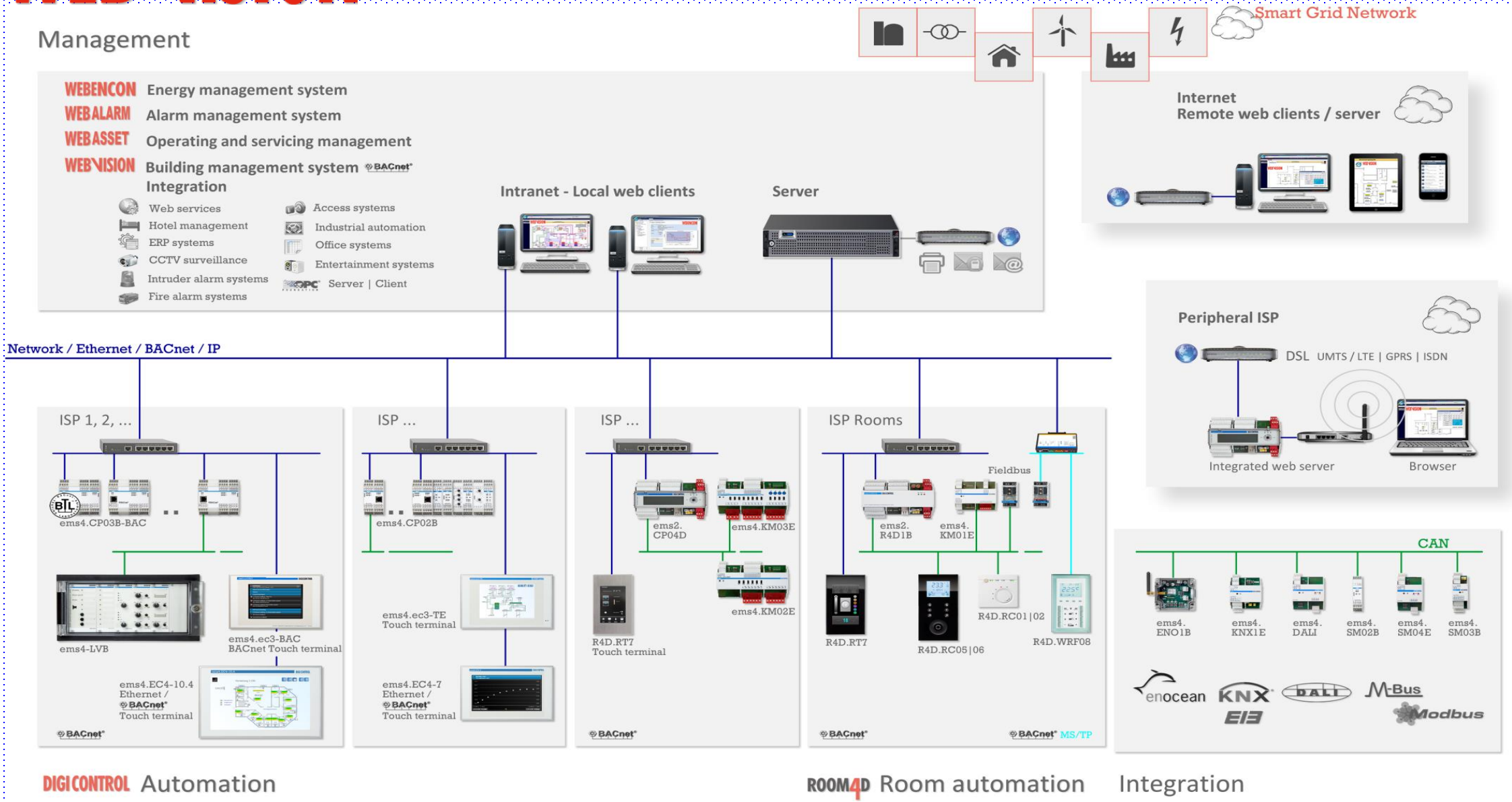
WEBVISION topologia sistemului

create comfort control energy



DIGICONTROL Automation

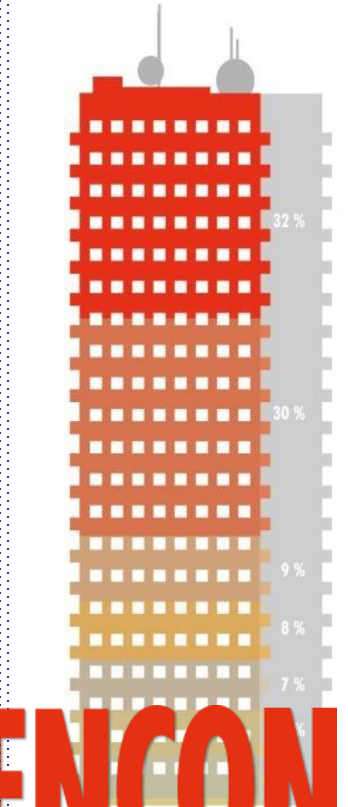
ROOM4D Room automation

Integration

Beneficiile aplicarii solutiilor GFR & LISSCOM

create comfort. control energy.

- Imbunatatirea continua a performantelor energetice pentru atingerea cerintelor standadului ISO 50001
- Experienta si studiile au demonstrat ca se pot economisi peste 30 % din cheltuielile pentru 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 CO2



WEBVISION & WEBENCON

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Sistemele de Automatizare GFR

create comfort. control energy.

INDEPLINESC CELE MAI INALTE CERINTE ALE CLASEI A

CU SOLUTIILE GFR APLICATE DE NOI AM REALIZAT:

- reducerea consumurilor de gaze naturale: 20 ÷ 26 %
- reducerea consumurilor de curent electric: 20 ÷ 30 %
- reducerea consumurilor de apă: 10 ÷ 70 %
- reducerea uzurilor premature ale echipamentelor: 20 %
- reducerea costurilor cu mentenanţa: 15 %
- reducerea pierderilor de producţie (mărfuri perisabile): 8 %

NECESAR IN ORICE ANOTIMP

Certificari obtinute in Romania

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 organizaţia/ certifies the organisation

S.C. LISSCOM S.R.L.

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

Sediul de lucru: Şos. Cristianului, nr. 11, Braşov, jud. Braşov

pentru următoarele activităţi/
for the following fields of activities

Proiectare, execuţie, instalare, mentenanţă, upgradare, monitorizare, service şi reparaţii pentru: instalaţii termice, ventilaţie, climatizare, sanitare, electrice, sisteme de automatizare, inclusiv sisteme de management energetic integrat. Soluţii de management al clădirilor, al energiei, eficientizare energetică. Activităţi de verificări tehnice la instalaţii şi 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 şi menţine un **sistem de management al energiei** conform condiţiilor 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 condiţionată de efectuarea supravegherilor anuale până la data de: 08-2015 N/A

nr. certificat/ certificate registration no. **14**
data iniţială 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 condiţia vizării anuale)
SRAC CERT SRL, Str. Vasile Pârvan Nr. 14, Sector 1, Bucureşti 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

IQNet SR AC

Michael Drechsel
President of IQNet

ing. Mihaela Cristea
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