

create comfort. control energy.

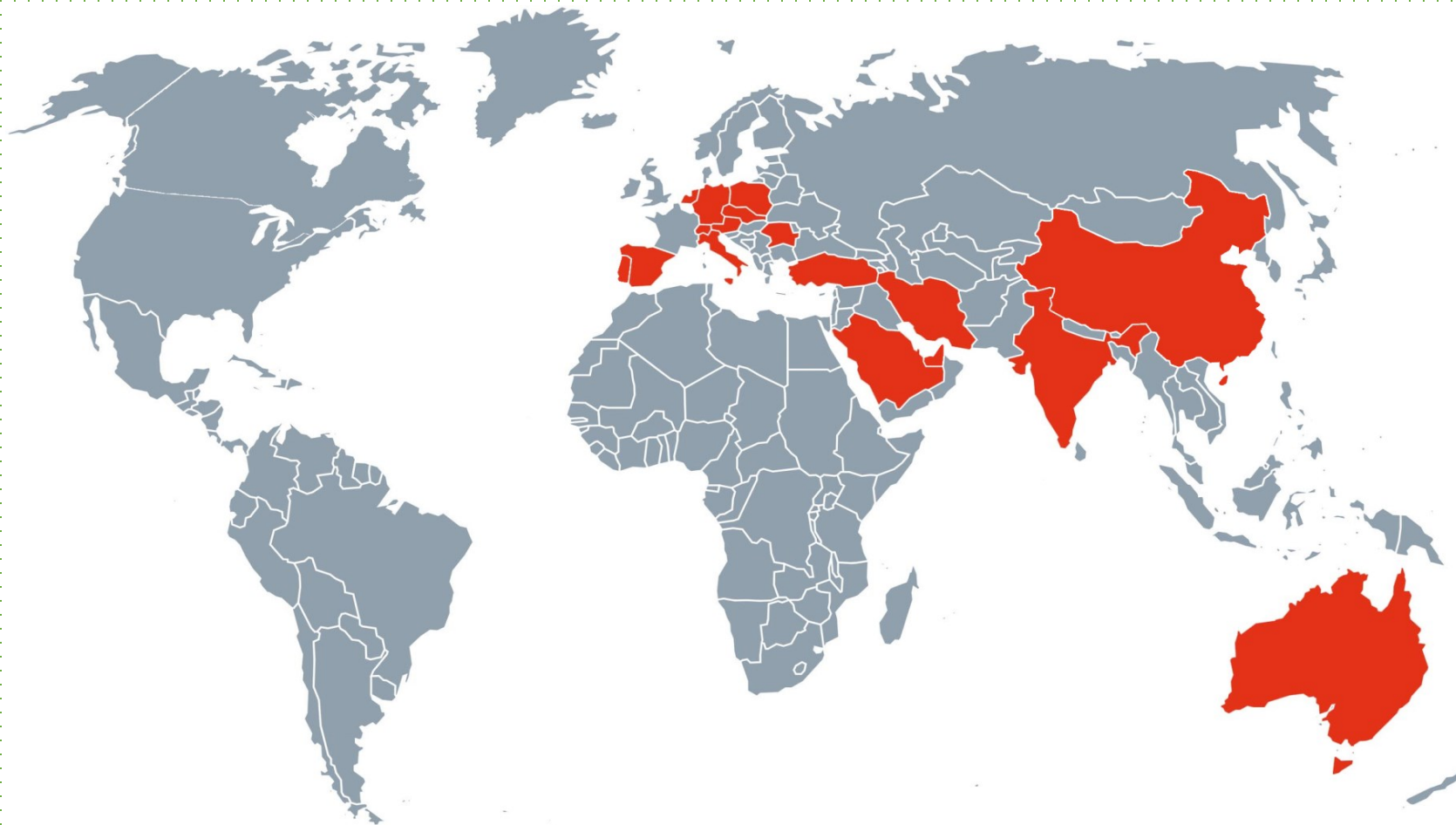
MANAGEMENTUL SISTEMELOR SMART CITY

EcoEnerg BUCURESTI
dec. 2015

creaza confortul. controleaza energia
Gesellschaft **F**ür **R**egelungstechnik

PARTENERI GFR

GFR este reprezentată de **60** de parteneri din Germania și din lumea întreagă



Germania →

Belgia

Olanda

Elveția

Austria

Spania

Portugalia

Italia

Republica Cehă

Ungaria

Polonia

România

Moldova →

Turcia

Australia

India

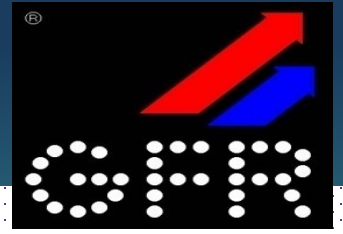
China

Brazilia

Canada



SMART CITY = SISTEME SMART

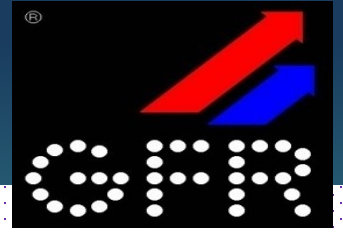


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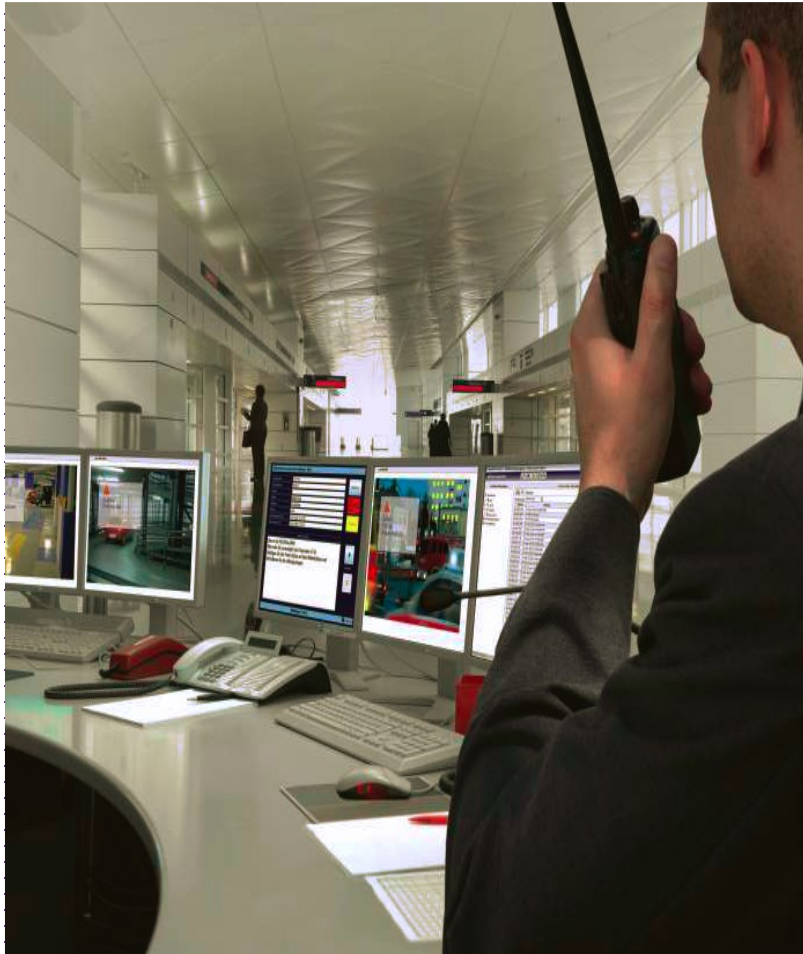


- Iluminat stradal SMART
- Contorizare – dispecerizare SMART
- Sisteme de producere de energie SMART
- Sisteme de distributie de energie SMART
- Cladiri si ansambluri de cladiri SMART
- Locuinte SMART
- Trafic urban SMART
- Transport in comun SMART
- Alimentare cu apa SMART
- Sisteme de sanatate SMART
- Sisteme de invatamant SMART
- Etc.....

Sistem de Management SMART CITY

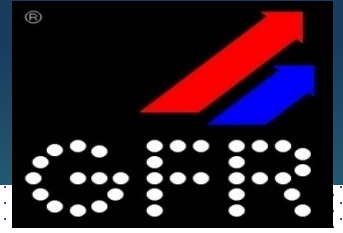


create comfort. control energy.



- ✓ Monitorizarea consumurilor din sistemele SMART
- ✓ Monitorizarea parametrilor din sistemele SMART
- ✓ Monitorizarea evenimentelor din sistemele SMART
- ✓ Controlul functional al sistemelor SMART
- ✓ Evaluare si prognoze pentru consumul de energie general sau pe fiecare sistem in parte
- ✓ Gestionarea pe centre de consum si cost
- ✓ Generare automata de rapoarte conform unei programari sau la cerere pe fiecare sistem sau in ansamblu

Management de buzunar

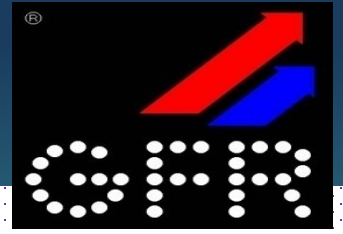


create comfort. control energy.



- ✓ 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)

Management bazat pe web

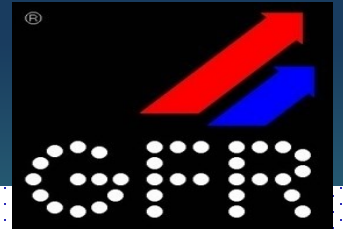


create comfort. control energy.



- ✓ Asigura managementul tehnic si comercial
- ✓ Solutie cu eficienta maxima in administrare
- ✓ Operare si service rapid
- ✓ Integreaza inclusiv module externe de management
- ✓ Posibilitate de introducere manual date de mentenanta
- ✓ Transmite automat mesaje personalului care asigura mentenanta
- ✓ Functioneaza in legatura cu managementul comercial pentru tinerea sub control a costurilor tuturor sistemelor

Structura Sistemului de Management



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- Sistem bazat in intregime pe comunicare WEB
- Sistem conectabil cu aplicatii existente
- Sistem cu interfata intuitiva
- Sistem pentru un numar nelimitat de utilizatori
- Sistem pentru structuri nelimitate de cladiri sau aplicatii

Limiting

Cost

Mobile

WEBENCON
Server Administration
Monitoring

Controlling

Reporting

Modul de administrare



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Administration ⇒ Buildings ⇒ Modify/delete

Selected building data

Image:

Facility: Lisscom
Name: SC LISSCOM SRL
Description: Punct de lucru

Name: Sediul
Land parcel: Bartolomeu Nord

Street/No.: Sos. Cristianului 11
AKS shortcut: Sediul

Postal Code/City: 500053 Brasov

Country: Romania

Reference magnitude: Beheizte Bruttogeschossfläche
Reference value: 190 m²

Net floor space: 190 m² Calculate
Number of persons: 15

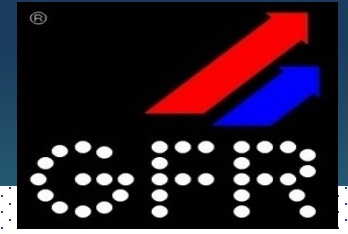
Year of construction: 1990
Base year: 2014

Existing buildings

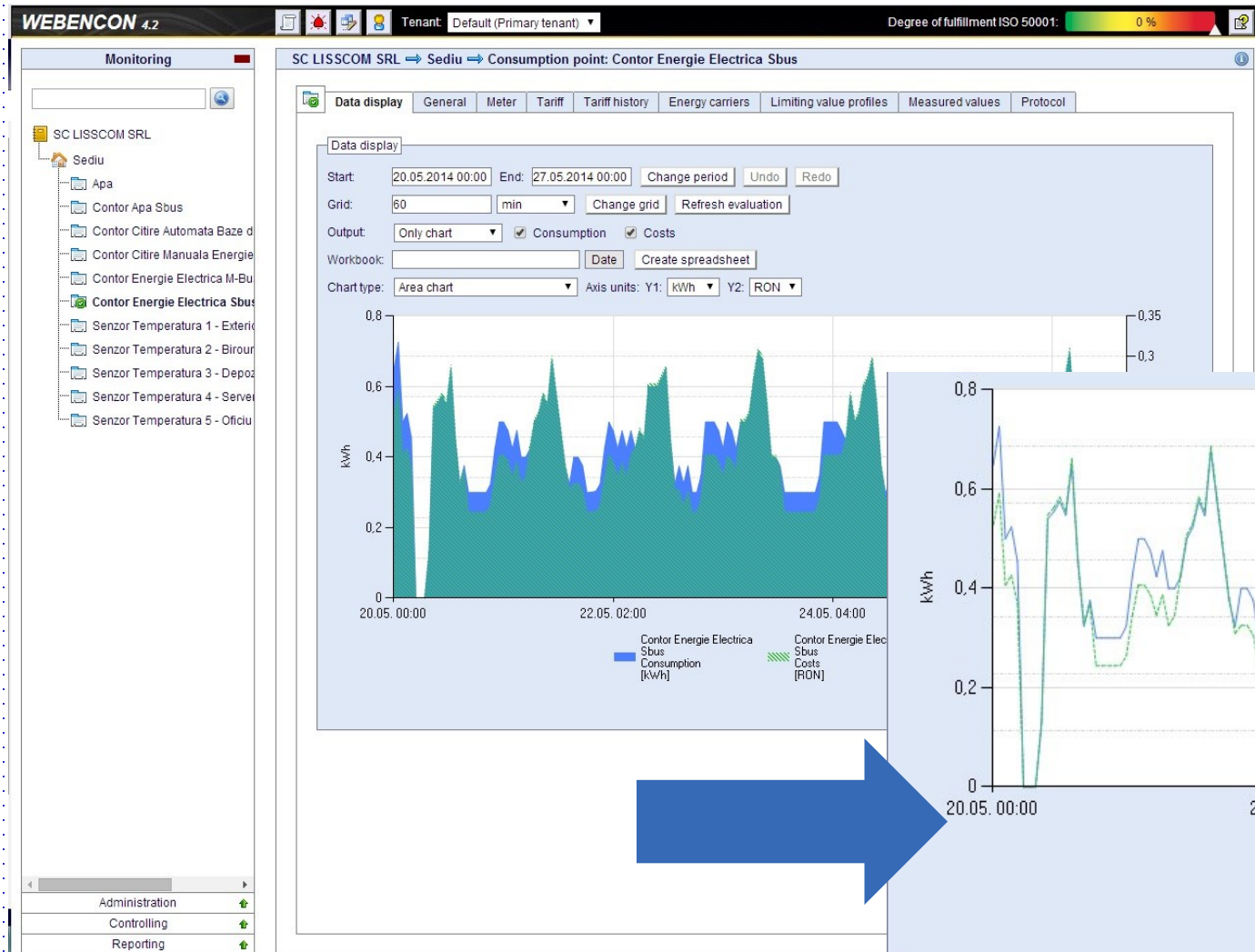
Facility	Name	AKS shortcut
SC LISSCOM SRL	Sediul	Sediul

- 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

Modul de costuri

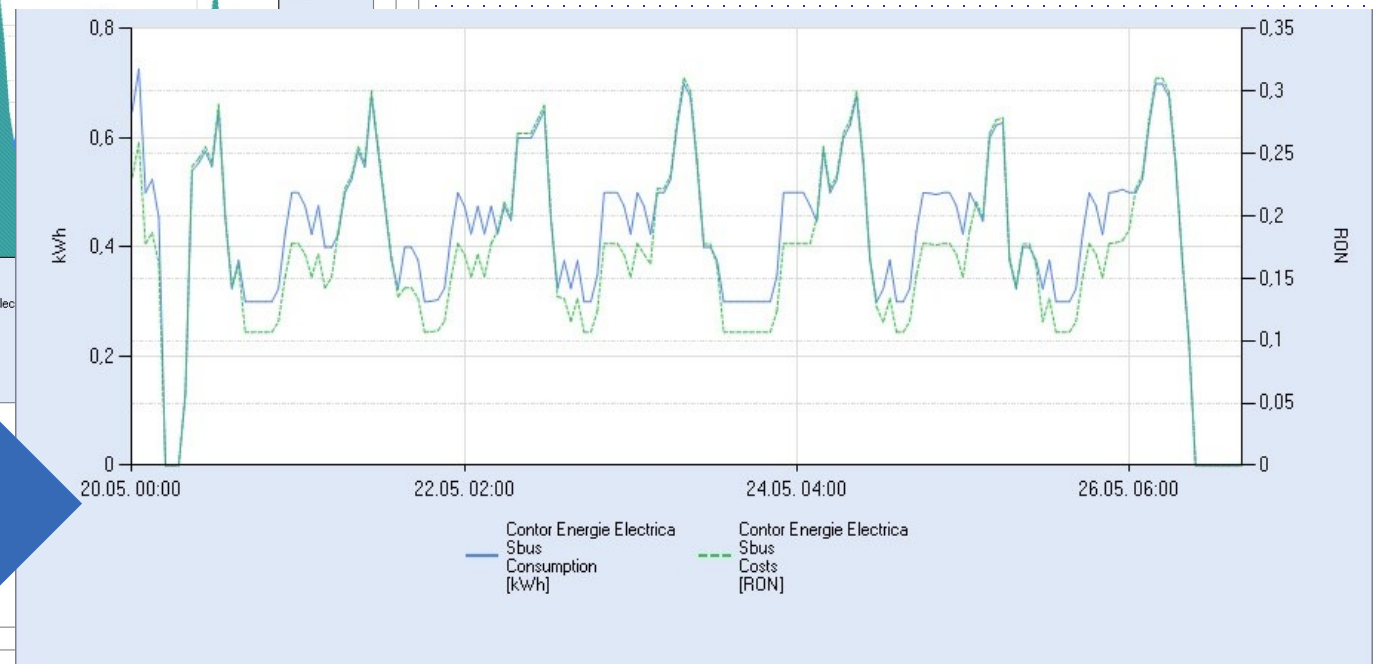


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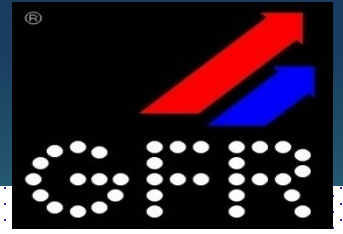


VIZUALIZARE PERMANENTA

- puncte de consum
- centre de cost



Modul de monitorizare limite



create comfort. control energy.

WEBENCON 4.2

Tenant: Default (Primary tenant) | Degree of fulfillment ISO 50001: 0 %

Administration → Limiting value infringements

Limiting value infringements

Filters

Period – start: 26.04.2014 16:24:23 (DD.MM.YYYY HH:MM)
Period – End: 26.05.2014 16:24:23 (DD.MM.YYYY HH:MM)
Options:
 Display confirmed limit violations
 Display rejected limit violations

Display limit violations

Limiting value infringements detected

	Date/time	Consumption point	Consumption	Type	Limiting value profile	Weekdays
<input type="checkbox"/>	20.05.2014 03:00:00	Contor Energie Electrica Sbus	12,71133	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	20.05.2014 03:00:00	Contor Energie Electrica Sbus	50,18399	Alarm – Upper limit	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	20.05.2014 03:00:00	Contor Energie Electrica Sbus	12,71133	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	20.05.2014 03:00:00	Contor Energie Electrica Sbus	12,71133	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	20.05.2014 03:00:00	Contor Energie Electrica Sbus	12,71133	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	20.05.2014 03:00:00	Contor Energie Electrica Sbus	-34,34896	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	17.05.2014 03:00:00	Contor Energie Electrica Sbus	-18,50760	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	17.05.2014 03:00:00	Contor Energie Electrica Sbus	-18,50760	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	17.05.2014 03:00:00	Contor Energie Electrica Sbus	-18,50760	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	17.05.2014 03:00:00	Contor Energie Electrica Sbus	-18,50760	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	17.05.2014 03:00:00	Contor Energie Electrica Sbus	-18,50760	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	17.05.2014 03:00:00	Contor Energie Electrica Sbus	-18,50760	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	10.05.2014 03:00:00	Contor Energie Electrica Sbus	-638,66425	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	09.05.2014 03:00:00	Contor Energie Electrica M-Bus	10,99457	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	29.04.2014 03:00:00	Contor Energie Electrica M-Bus	2,822,00000	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	29.04.2014 03:00:00	Contor Energie Electrica M-Bus	2,822,00000	Alarm – Upper limit	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	29.04.2014 03:00:00	Contor Energie Electrica M-Bus	1,429,37360	negative consumption	Limitare consum energie Electrica	Mo-Fr
<input type="checkbox"/>	28.04.2014 03:00:00	Contor Energie Electrica M-Bus	-7,80779	negative consumption	Limitare consum energie Electrica	Sa+Su
<input type="checkbox"/>	28.04.2014 03:00:00	Contor Energie Electrica M-Bus	-1,391,48695	negative consumption	Limitare consum energie Electrica	Sa+Su
<input type="checkbox"/>	27.04.2014 03:00:00	Contor Energie Electrica M-Bus	-7,71767	negative consumption	Limitare consum energie Electrica	Sa+Su
<input type="checkbox"/>	27.04.2014 03:00:00	Contor Energie Electrica M-Bus	1,391,48695	negative consumption	Limitare consum energie Electrica	Sa+Su

Select all Remove all selections Confirm selected LVVs Reject selected LVVs

Monitoring ↑
Controlling ↑
Reporting ↑

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

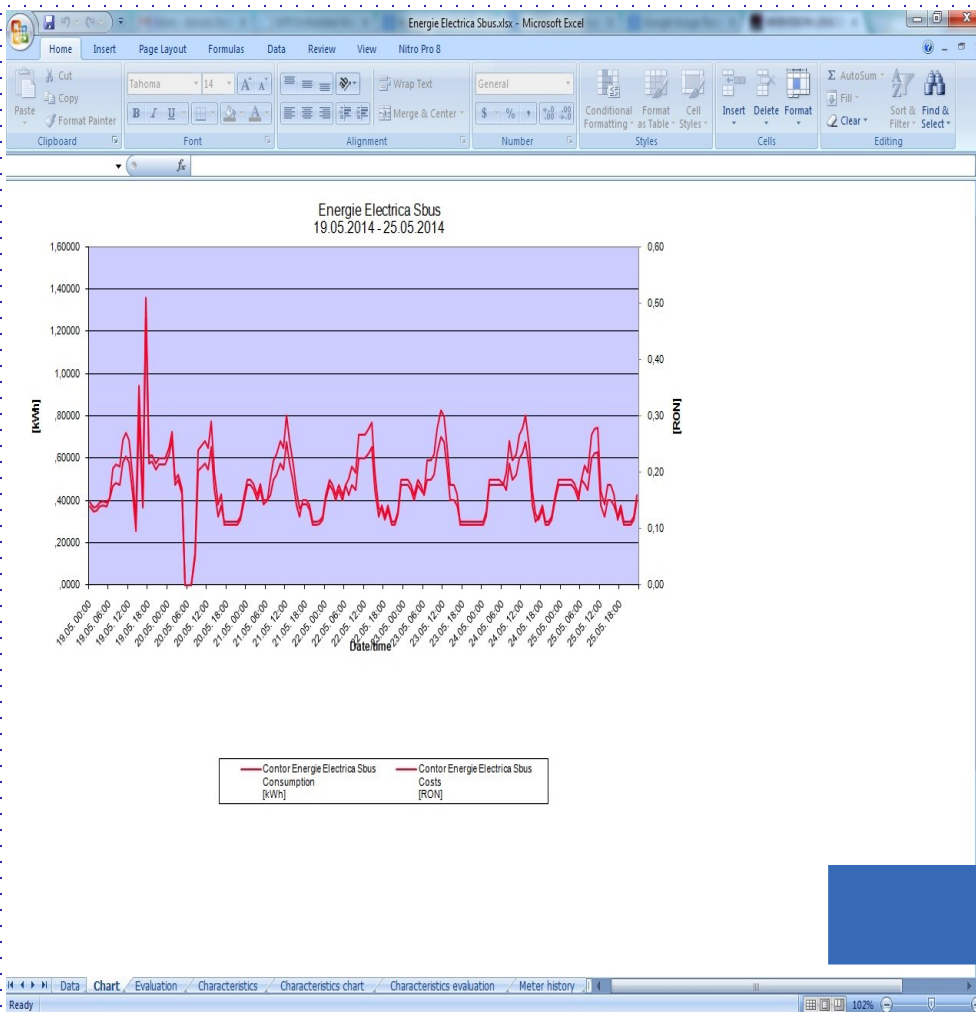
Modul de control al sistemelor



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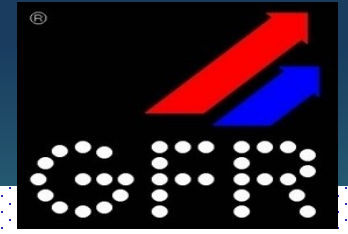
ANALIZEAZA SI VERIFICA VOLORILE CONSUMULUI

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



Time Interval (Formatted)	Contor Energie Electrica Sbus Consumption (kWh)	Contor Energie Electrica Sbus Costs (RON)
19.05.2014 01:00	13.00	0.350
19.05.2014 02:00	12.00	0.320
19.05.2014 03:00	11.00	0.300
19.05.2014 04:00	10.00	0.280
19.05.2014 05:00	9.00	0.260
19.05.2014 06:00	8.00	0.240
19.05.2014 07:00	7.00	0.220
19.05.2014 08:00	6.00	0.200
19.05.2014 09:00	5.00	0.180
19.05.2014 10:00	4.00	0.160
19.05.2014 11:00	3.00	0.140
19.05.2014 12:00	2.00	0.120
19.05.2014 13:00	1.00	0.100
19.05.2014 14:00	0.50	0.050
19.05.2014 15:00	0.20	0.020
19.05.2014 16:00	0.10	0.010
19.05.2014 17:00	0.05	0.005
19.05.2014 18:00	0.02	0.002
19.05.2014 19:00	0.01	0.001
19.05.2014 20:00	0.00	0.000
19.05.2014 21:00	0.00	0.000
19.05.2014 22:00	0.00	0.000
19.05.2014 23:00	0.00	0.000
20.05.2014 00:00	0.00	0.000
20.05.2014 01:00	0.00	0.000
20.05.2014 02:00	0.00	0.000
20.05.2014 03:00	0.00	0.000
20.05.2014 04:00	0.00	0.000
20.05.2014 05:00	0.00	0.000
20.05.2014 06:00	0.00	0.000
20.05.2014 07:00	0.00	0.000
20.05.2014 08:00	0.00	0.000
20.05.2014 09:00	0.00	0.000
20.05.2014 10:00	0.00	0.000
20.05.2014 11:00	0.00	0.000
20.05.2014 12:00	0.00	0.000
20.05.2014 13:00	0.00	0.000
20.05.2014 14:00	0.00	0.000
20.05.2014 15:00	0.00	0.000
20.05.2014 16:00	0.00	0.000
20.05.2014 17:00	0.00	0.000
20.05.2014 18:00	0.00	0.000
20.05.2014 19:00	0.00	0.000
20.05.2014 20:00	0.00	0.000
20.05.2014 21:00	0.00	0.000
20.05.2014 22:00	0.00	0.000
20.05.2014 23:00	0.00	0.000
21.05.2014 00:00	0.00	0.000
21.05.2014 01:00	0.00	0.000
21.05.2014 02:00	0.00	0.000
21.05.2014 03:00	0.00	0.000
21.05.2014 04:00	0.00	0.000
21.05.2014 05:00	0.00	0.000
21.05.2014 06:00	0.00	0.000
21.05.2014 07:00	0.00	0.000
21.05.2014 08:00	0.00	0.000
21.05.2014 09:00	0.00	0.000
21.05.2014 10:00	0.00	0.000
21.05.2014 11:00	0.00	0.000
21.05.2014 12:00	0.00	0.000
21.05.2014 13:00	0.00	0.000
21.05.2014 14:00	0.00	0.000
21.05.2014 15:00	0.00	0.000
21.05.2014 16:00	0.00	0.000
21.05.2014 17:00	0.00	0.000
21.05.2014 18:00	0.00	0.000
21.05.2014 19:00	0.00	0.000
21.05.2014 20:00	0.00	0.000
21.05.2014 21:00	0.00	0.000
21.05.2014 22:00	0.00	0.000
21.05.2014 23:00	0.00	0.000
22.05.2014 00:00	0.00	0.000
22.05.2014 01:00	0.00	0.000
22.05.2014 02:00	0.00	0.000
22.05.2014 03:00	0.00	0.000
22.05.2014 04:00	0.00	0.000
22.05.2014 05:00	0.00	0.000
22.05.2014 06:00	0.00	0.000
22.05.2014 07:00	0.00	0.000
22.05.2014 08:00	0.00	0.000
22.05.2014 09:00	0.00	0.000
22.05.2014 10:00	0.00	0.000
22.05.2014 11:00	0.00	0.000
22.05.2014 12:00	0.00	0.000
22.05.2014 13:00	0.00	0.000
22.05.2014 14:00	0.00	0.000
22.05.2014 15:00	0.00	0.000
22.05.2014 16:00	0.00	0.000
22.05.2014 17:00	0.00	0.000
22.05.2014 18:00	0.00	0.000
22.05.2014 19:00	0.00	0.000
22.05.2014 20:00	0.00	0.000
22.05.2014 21:00	0.00	0.000
22.05.2014 22:00	0.00	0.000
22.05.2014 23:00	0.00	0.000
23.05.2014 00:00	0.00	0.000
23.05.2014 01:00	0.00	0.000
23.05.2014 02:00	0.00	0.000
23.05.2014 03:00	0.00	0.000
23.05.2014 04:00	0.00	0.000
23.05.2014 05:00	0.00	0.000
23.05.2014 06:00	0.00	0.000
23.05.2014 07:00	0.00	0.000
23.05.2014 08:00	0.00	0.000
23.05.2014 09:00	0.00	0.000
23.05.2014 10:00	0.00	0.000
23.05.2014 11:00	0.00	0.000
23.05.2014 12:00	0.00	0.000
23.05.2014 13:00	0.00	0.000
23.05.2014 14:00	0.00	0.000
23.05.2014 15:00	0.00	0.000
23.05.2014 16:00	0.00	0.000
23.05.2014 17:00	0.00	0.000
23.05.2014 18:00	0.00	0.000
23.05.2014 19:00	0.00	0.000
23.05.2014 20:00	0.00	0.000
23.05.2014 21:00	0.00	0.000
23.05.2014 22:00	0.00	0.000
23.05.2014 23:00	0.00	0.000
24.05.2014 00:00	0.00	0.000
24.05.2014 01:00	0.00	0.000
24.05.2014 02:00	0.00	0.000
24.05.2014 03:00	0.00	0.000
24.05.2014 04:00	0.00	0.000
24.05.2014 05:00	0.00	0.000
24.05.2014 06:00	0.00	0.000
24.05.2014 07:00	0.00	0.000
24.05.2014 08:00	0.00	0.000
24.05.2014 09:00	0.00	0.000
24.05.2014 10:00	0.00	0.000
24.05.2014 11:00	0.00	0.000
24.05.2014 12:00	0.00	0.000
24.05.2014 13:00	0.00	0.000
24.05.2014 14:00	0.00	0.000
24.05.2014 15:00	0.00	0.000
24.05.2014 16:00	0.00	0.000
24.05.2014 17:00	0.00	0.000
24.05.2014 18:00	0.00	0.000
24.05.2014 19:00	0.00	0.000
24.05.2014 20:00	0.00	0.000
24.05.2014 21:00	0.00	0.000
24.05.2014 22:00	0.00	0.000
24.05.2014 23:00	0.00	0.000
25.05.2014 00:00	0.00	0.000
25.05.2014 01:00	0.00	0.000
25.05.2014 02:00	0.00	0.000
25.05.2014 03:00	0.00	0.000
25.05.2014 04:00	0.00	0.000
25.05.2014 05:00	0.00	0.000
25.05.2014 06:00	0.00	0.000
25.05.2014 07:00	0.00	0.000
25.05.2014 08:00	0.00	0.000
25.05.2014 09:00	0.00	0.000
25.05.2014 10:00	0.00	0.000
25.05.2014 11:00	0.00	0.000
25.05.2014 12:00	0.00	0.000

Modul de gestionare a costurilor



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Administration ⇒ Consumption points ⇒ Modify/delete

General Cost & use Meter Meter rollovers

Cost & usage data for consumption point

Energy supply company: [Energy supply company]

Tariff: [Energie Electrica]

Cost centre ID: [Energie Electrica]

Limiting value profile Mo-Fr: [Limitare consum energie Electrica]

Limiting value profile Sa+Su: [Limitare consum energie Electrica]

Start of check: [18.04.2014 00:00:00] (DD.MM.YYYY HH:MM:SS)

Energy factor for evaluation (energy carrier required): [Apply heating value]

Weather adjustment activated: [No]

Weather-independent consumption: [] (Consumption units per year)

Reference magnitude: []

Reference value: []

Comparative characteristics: []

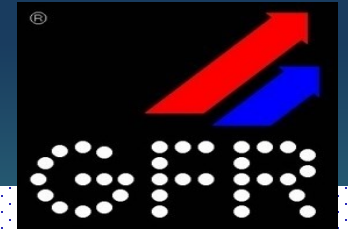
ANALIZEAZA SI AFISEAZA COSTURILE

- Crearea si administrarea de tarife individuale
- Importare si vizualizare de contracte
- Extensii functionale ale modulelor de control
- Interfata office pentru departamentul de contabilitate

Type	Name	Consumptio Unit	Costs	Currency	Facility	Buildings	Cost centre ID
Energie electrica	Energie electrica	81.646 kWh	32,36	RON	SC LISSCON	Sedu	Energie Electrica
Total			32,36	RON			

Contor	Energie Electrica	Sbi	Ø cost/unit	consumption	Costs [RON]
energy price peak tariff [RON/k	0.444	37.388	16.60		
energy price off-peak tariff [RON	0.366	44.267	16.76		
Total					32,36

Modul de raportari



create comfort. control energy.

WEBENCON 4.2

Tenant: Default (Primary tenant)

Degree of fulfillment ISO 50001: 0%

Reporting

Reporting => Lists => Meter

Export meters

You can use this function to create an Excel spreadsheet for existing meters.

Save in DB as:

Create spreadsheet

Existing meters

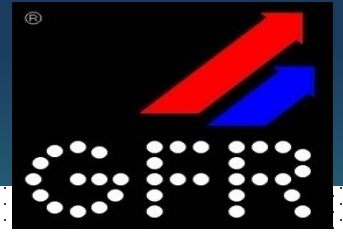
Meter number	Version	Date fitted	Initial counter reading	Data source	Unit	Formula
1	1	14.08.2013 09:55:07	2.824	Mbus	kWh	(not available)
10	1	07.05.2014 09:00:58	0.000	Sbus	°C	(not available)
11	1	07.05.2014 09:00:58	0.000	Sbus	°C	(not available)
13	1	20.05.2014 17:33:07	9.500	Mbus	m³	(not available)
2	2	09.05.2014 08:45:05	18.470	Sbus	kWh	(not available)
3	1	17.04.2014 10:56:34	1.036	Sbus	m³	(not available)
5	1	17.04.2013 11:06:34	100.000	CSV	kWh	(not available)
6	1	17.04.2014 11:07:48	348.800	Manuell	kWh	(not available)
7	1	07.05.2014 08:54:29	0.000	Sbus	°C	(not available)
8	1	07.05.2014 09:00:58	0.000	Sbus	°C	(not available)
9	1	07.05.2014 09:00:58	0.000	Sbus	°C	(not available)

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 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

Zone de aplicare in sisteme SMART



create comfort. control energy.

Industrie

Comerț

Educație și știință

Sănătate și îngrijire medicala

Sport, cultură și timp liber

Afaceri hoteliere și gastronomie

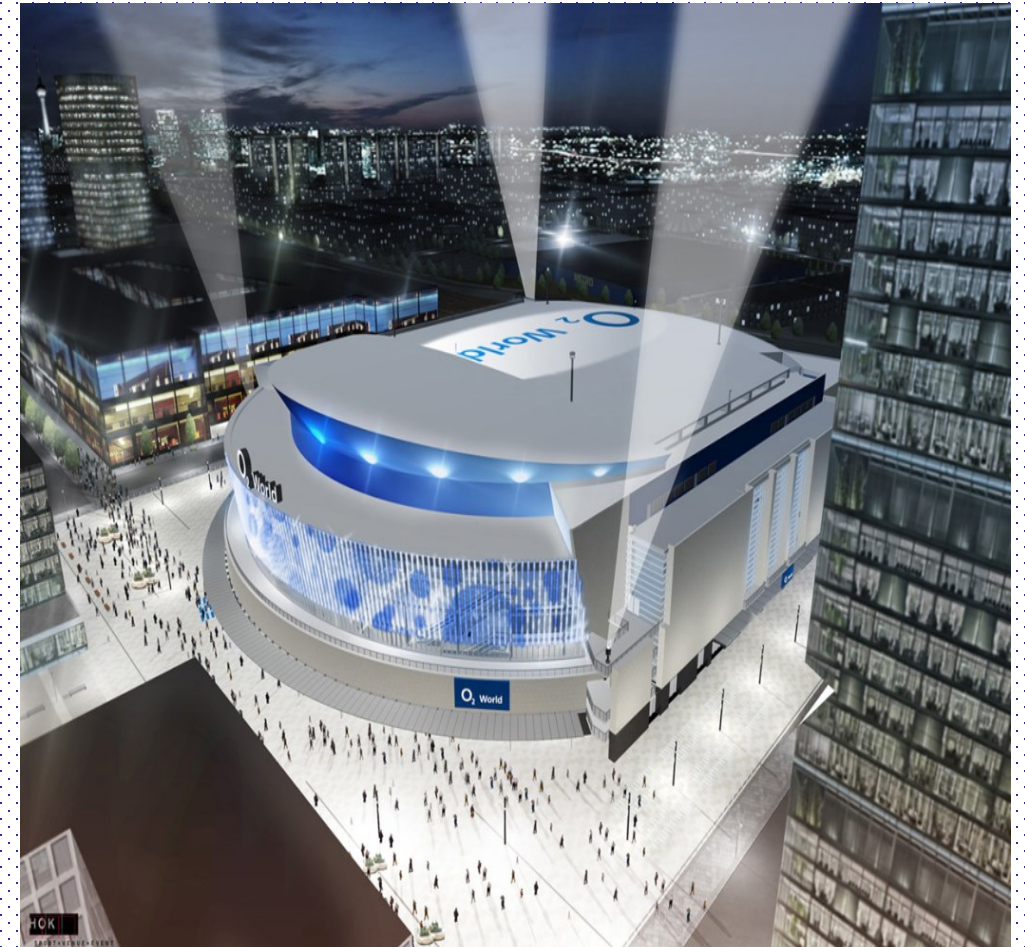
Ansambluri de locuințe

Centrale electrice și energii regenerabile

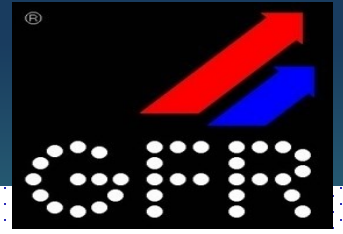
Furnizori de utilitati si servicii

Trafic, control acces, supraveghere video

Armata și securitate



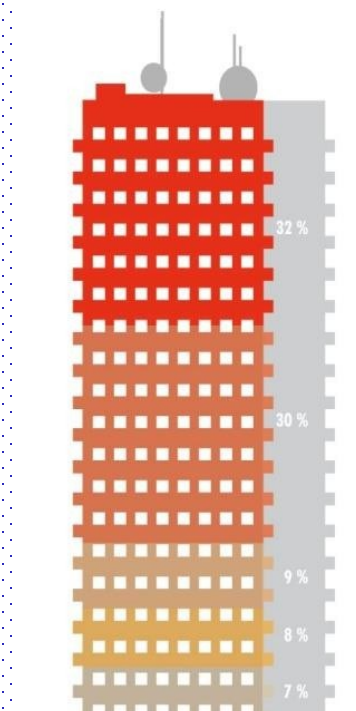
Beneficiile aplicarii unui sistem de Management



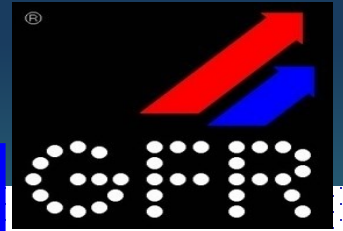
create comfort. control energy.

- Imbunatatirea continua a performantelor energetice pentru atingerea cerintelor standadului ISO 50001
- Experienta si studiile au demonstrat ca se economisesc 15 ÷ 30 % din cheltuielile pentru energie si administrare
- 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

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Certificari ISO 50001





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acreditat pentru
CERTIFICARE



SR EN ISO/CEI 17021:2011
CERTIFICAT DE ACREDITARE
SM 004



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S.C. LISSCOM S.R.L.

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

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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 supravegheților anuale până la data de:

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)
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Director General
Ing. Mihaela Cristea







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hereby certify that the organization

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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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Brasov - Romania

stefan.opris@lisscom.ro

+40 725 920 913

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Stefan OPRIS

BUCURESTI
dec. 2015

