The Smart Island

Future Internet Forum

23rd November 2009

Kista Science City

Stockholm

Emanuel Delia

Head of Secretariat

Ministry for Infrastructure, Transport and

6 sq km

tion: 400,000

Languages: Maltese, English

d to the EU: May 2004

d the Euro: January 2008

eal GDP growth: 2.5%

(forecasted) (-0.9%)

loyment Rate 2008: 5.9%

conomic pillars:

sm

cial services

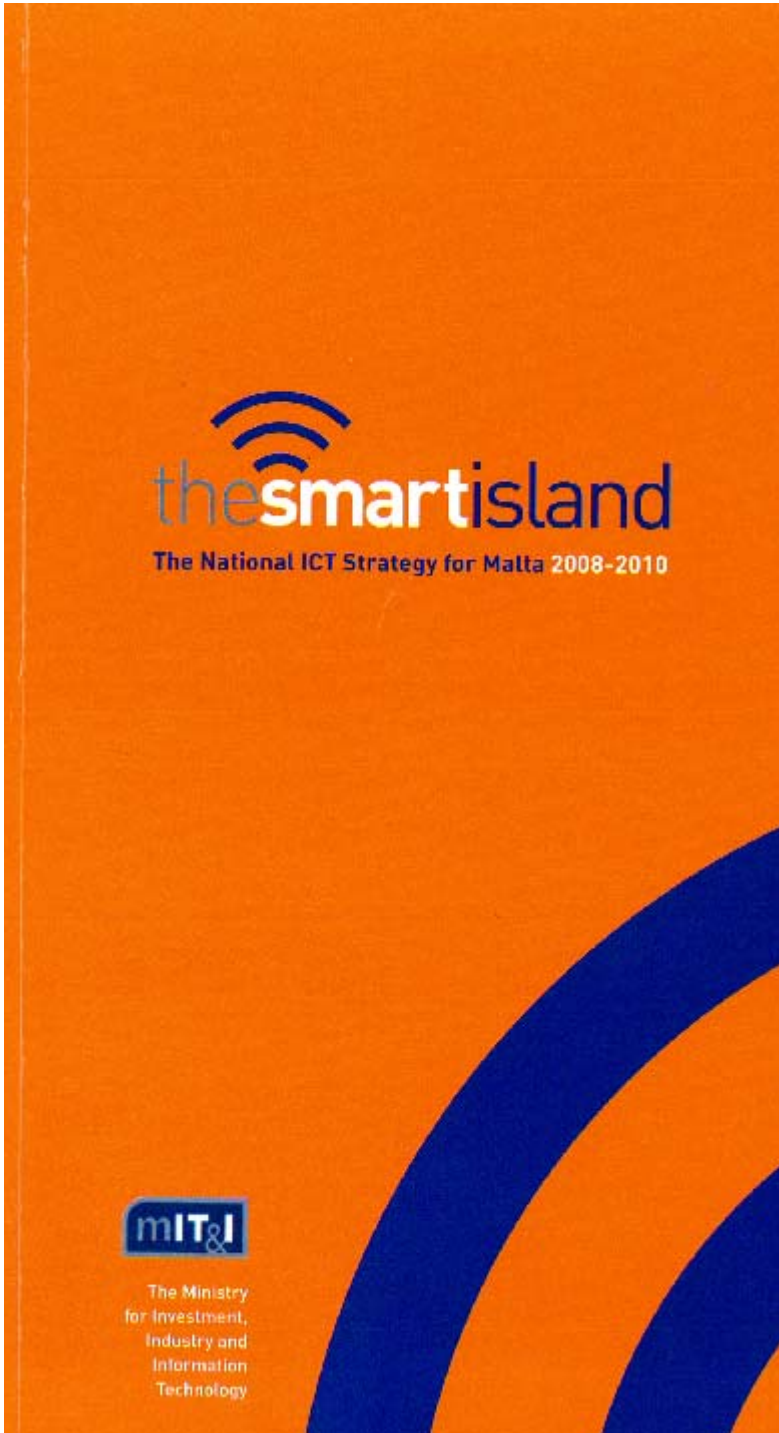
hart Island Strategy

(2008 -2010)

i2010 strategy

Vision 2015

SmartCity



3 Horizontal objectives

Ubiquity of ICT

egic Streams

elivering a next-generation ICT environment

connected society that bridges the last and new

eveloping the potential for a smart workforce

sing IST for a better quality of life

e-inventing Government

king care of e-Business

eveloping a world-leading ICT Industry

f households have broadband access (2008, Eu

f enterprises have broadband access (2008, Eu

e-Gov availability and sophistication (i2010, 20

the Networked Readiness Index (WEF, 2008-200

the e-readiness index (EIU / IBM, 2008)

The Smart Grid Project

Water System

allenge: In recent years, a complex series of challenges
liate attention to ensure that Malta is able to deliver affo
cure energy while protecting the environment.

Water Service Corporation provides
water from underground fresh wate
more than half of its water supply b
electrically powered desalination pl

Enemalta Corporation generates el
entirely by imported fossil fuel in ar
isolated system

oints) that triggered the tion:

y Commercial losses (circa

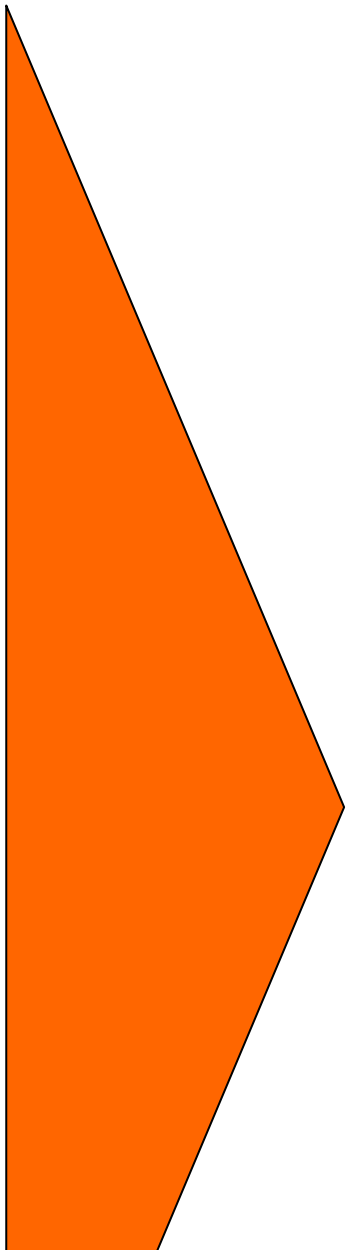
k Water Leakages 18%

pparent Losses 22%

on time Information to make nal and strategic decisions

nk between Water & Electricity ions (75% of Desalination s Electricity, 4% of National y Consumption)

mental Commitments (WSC & nmitted with the reduction of

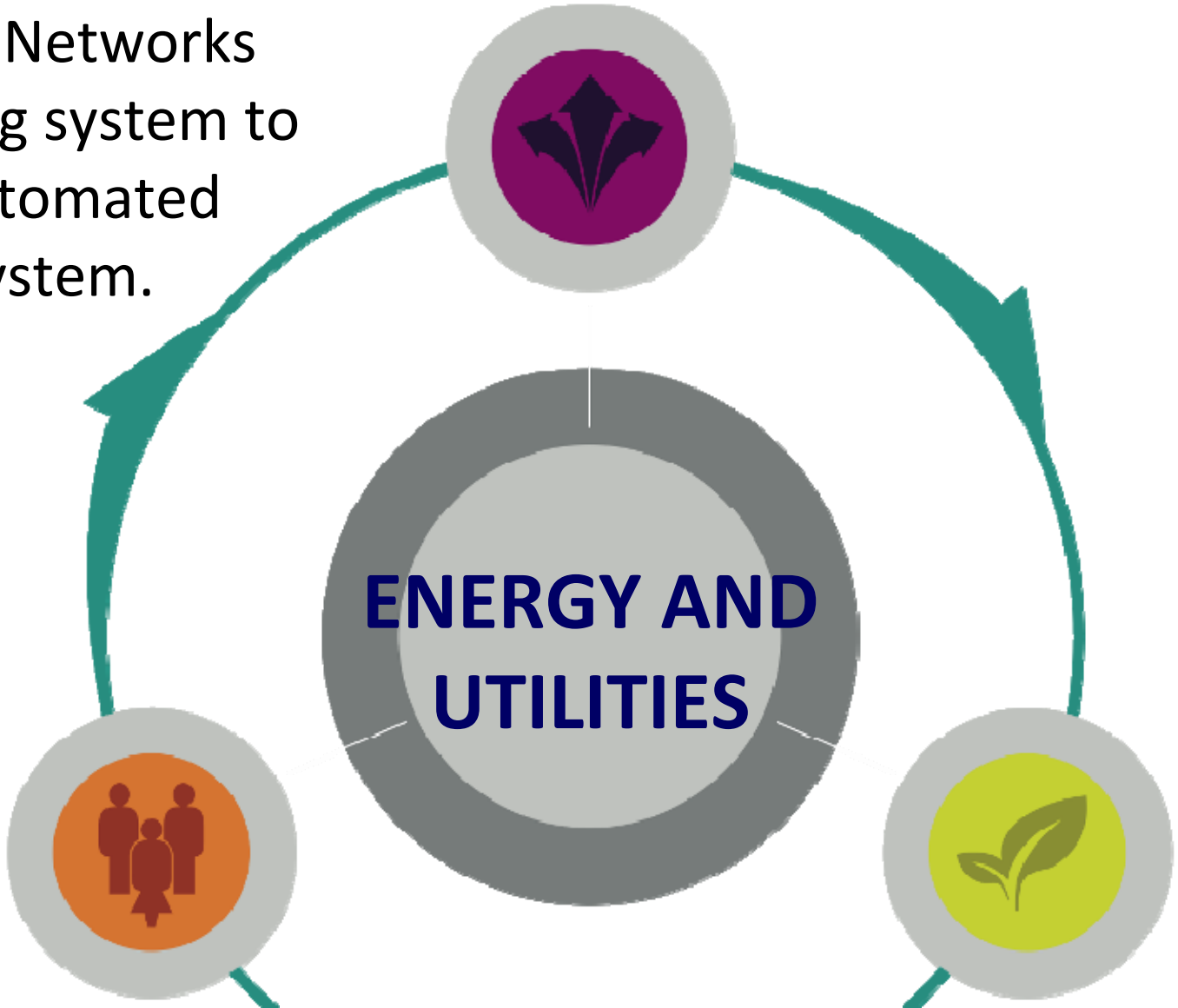


The Strategic Goals pu Corporations:

- Financial Self-Sustai the Corporations
- Implement Efficient
- Better balance betw and Demand
- Reduce Commercial Losses
- Respectful with the

RANSFORMATION
F THE NETWORKS

ansforming the Networks
om a rigid analog system to
dynamic and automated
nergy delivery system.



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Meeting

Haifa Research Lab

Zurich Research Lab

Rome Software Lab

Enel

TI ASCOLTA.

o Limited

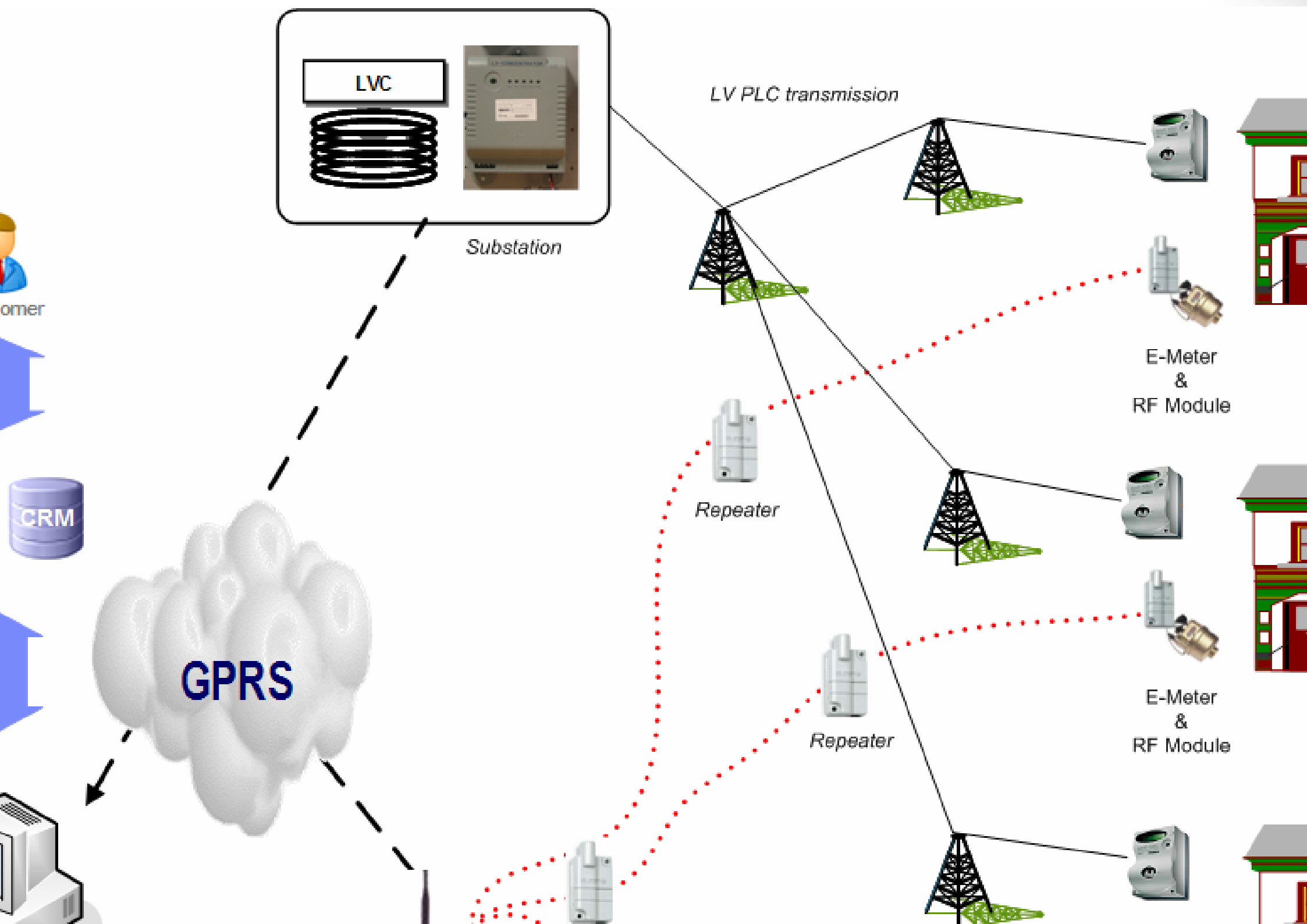
mmunication Solutions

IBM

AMM, ERP, CRM

WATER SE
CORPOR

en


LVC
LV PLC transmission
Substation
E-Meter
&
RF Module
Repeater
CRM
GPRS
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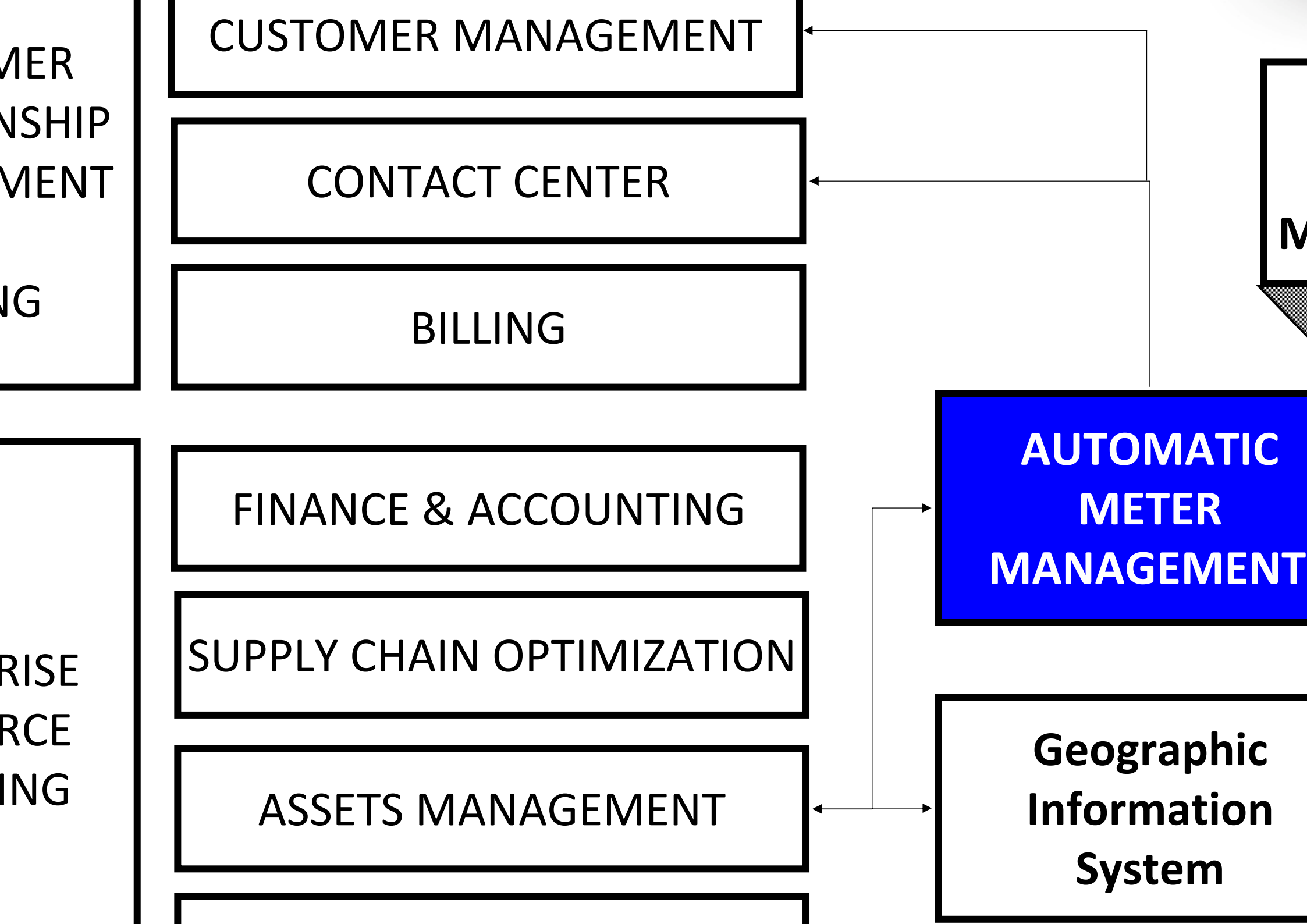
&
RF Module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CONTACT CENTER
BILLING
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AUTOMATIC METER MANAGEMENT
FINANCE & ACCOUNTING
SUPPLY CHAIN OPTIMIZATION
ASSETS MANAGEMENT
Geographic Information System
RISE
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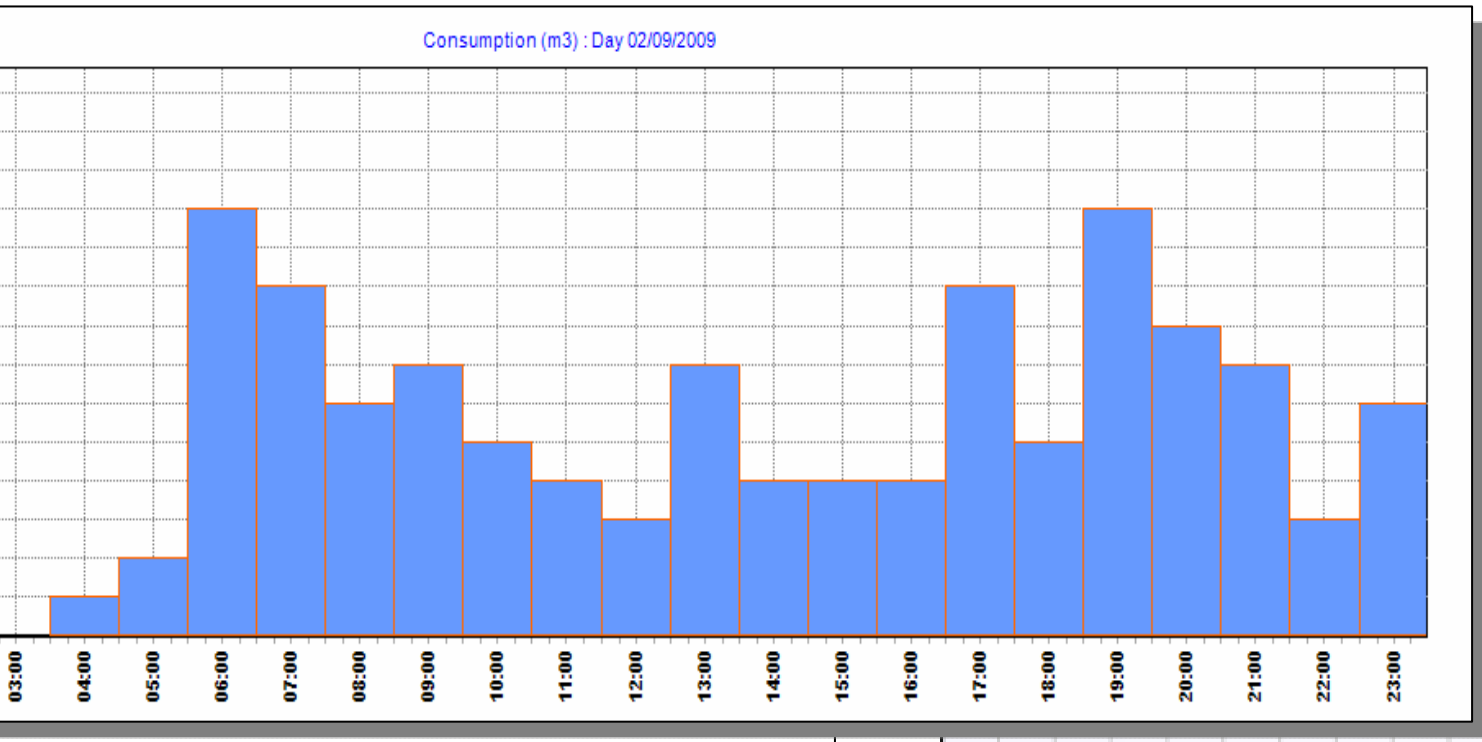
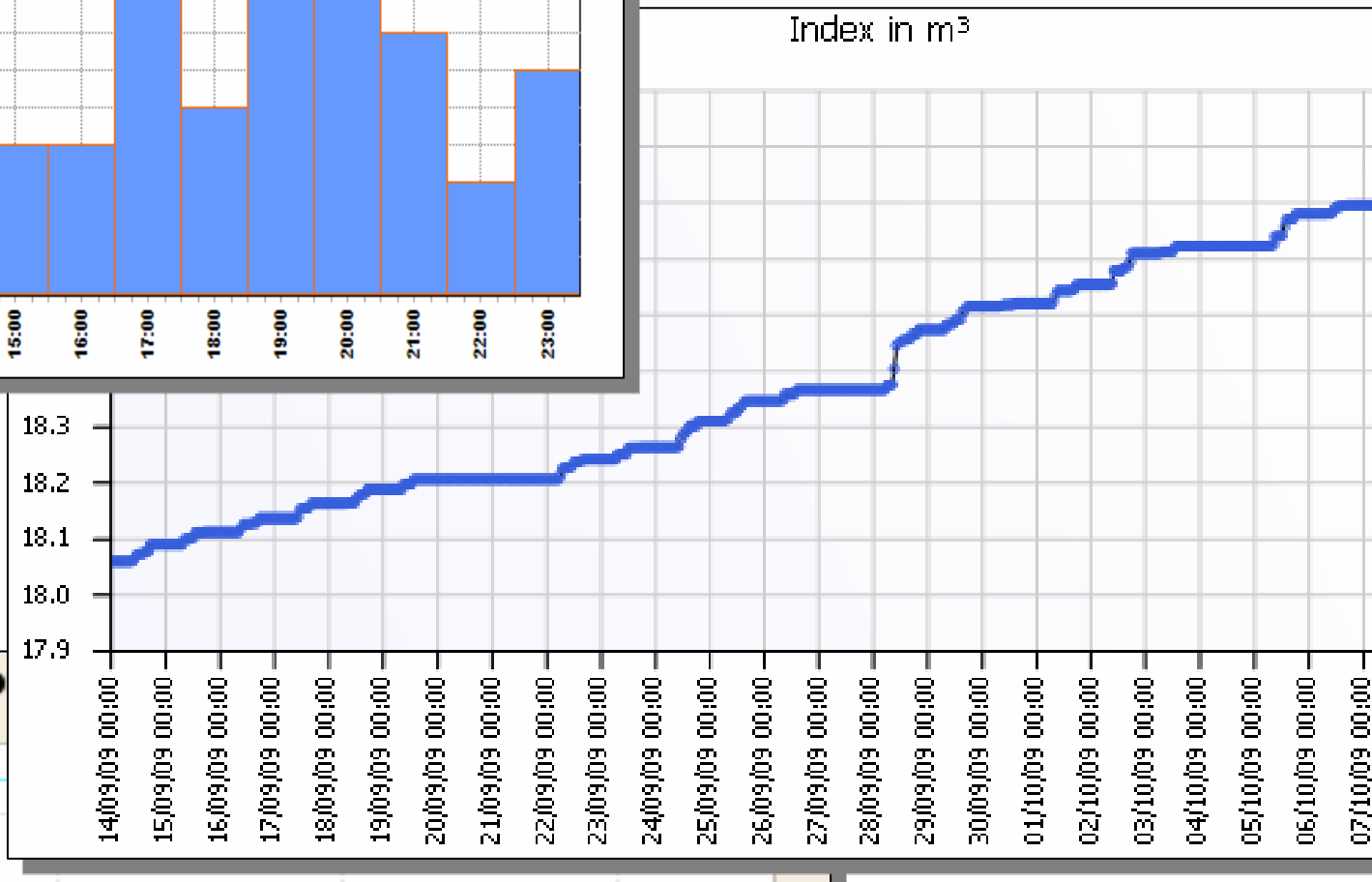
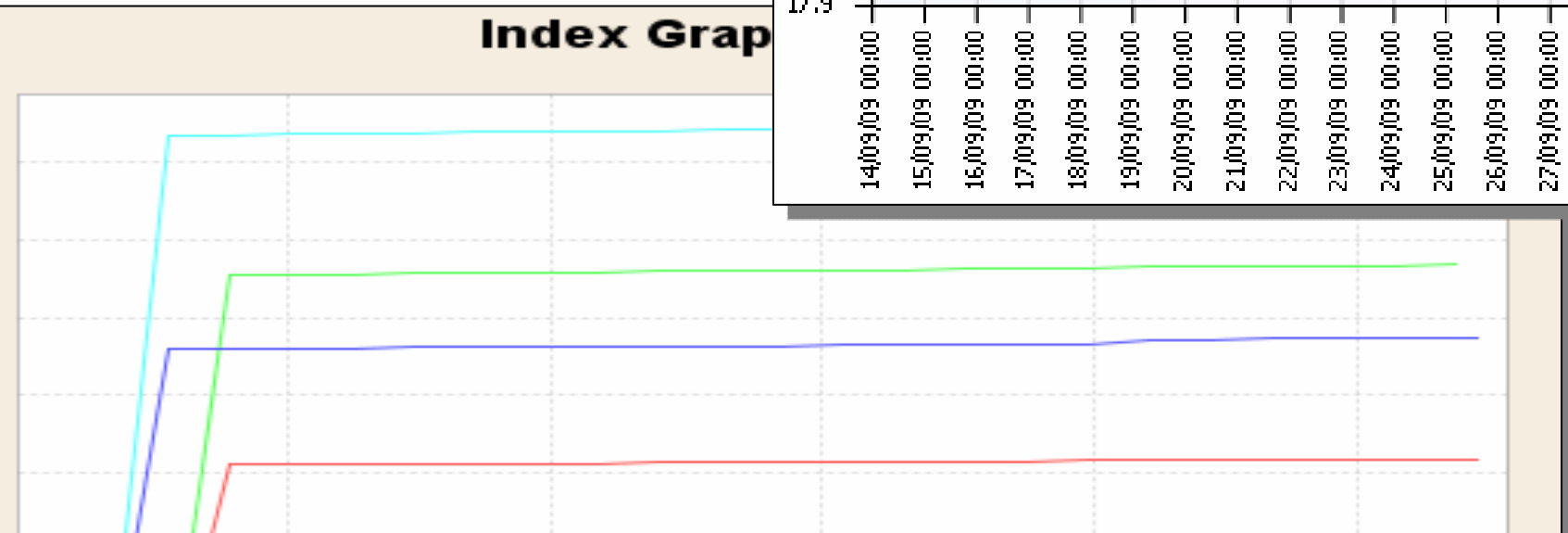


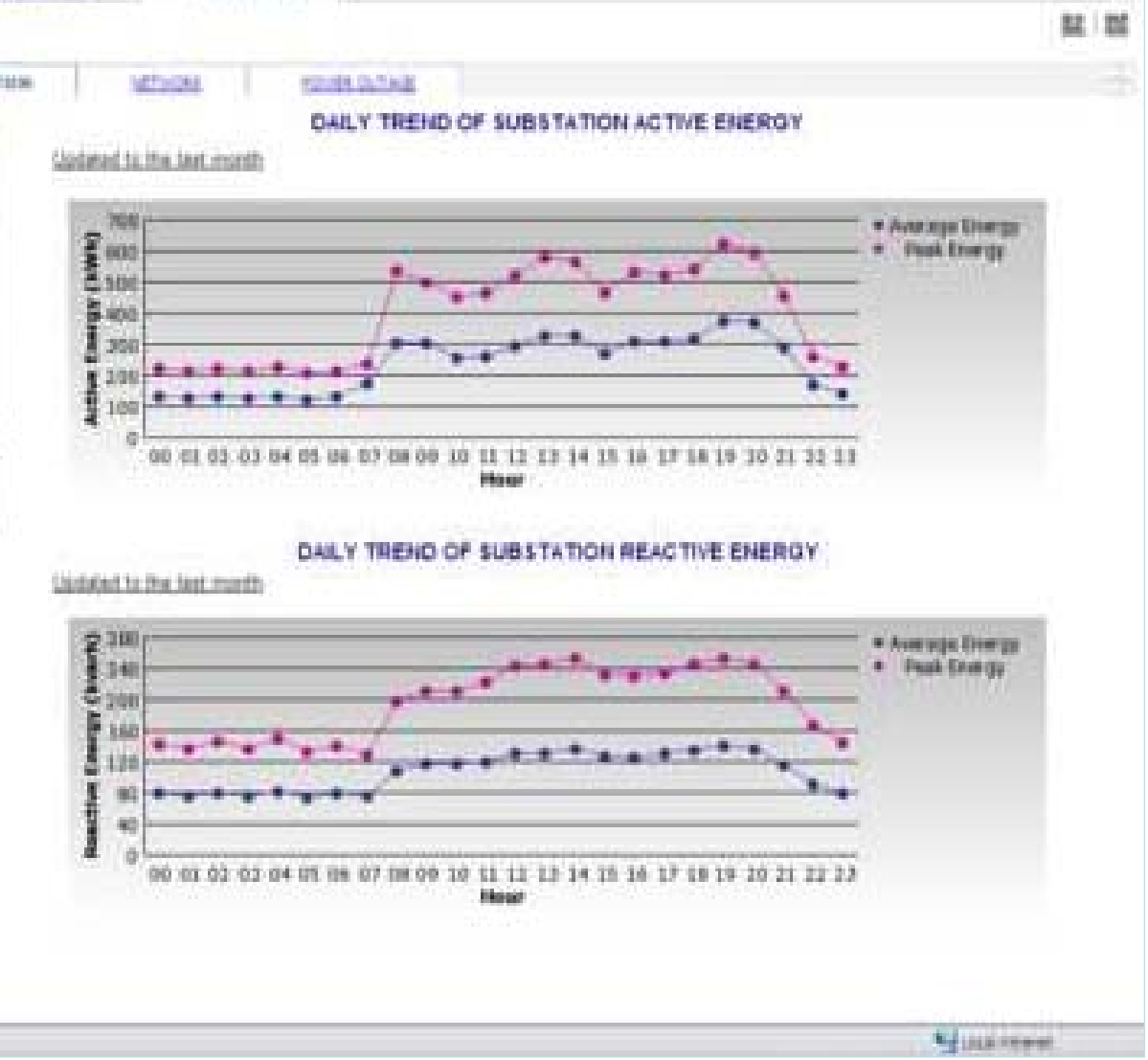
Hourly Water Consumpt Graph



Daily Water Index Graph



Monthly Water In



- Consumption trends detected at different levels

vering the consumer

AUTOMATED REVENUE MANAGEMENT SERVICES LIMITED

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tariff requested |
see all

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voices online
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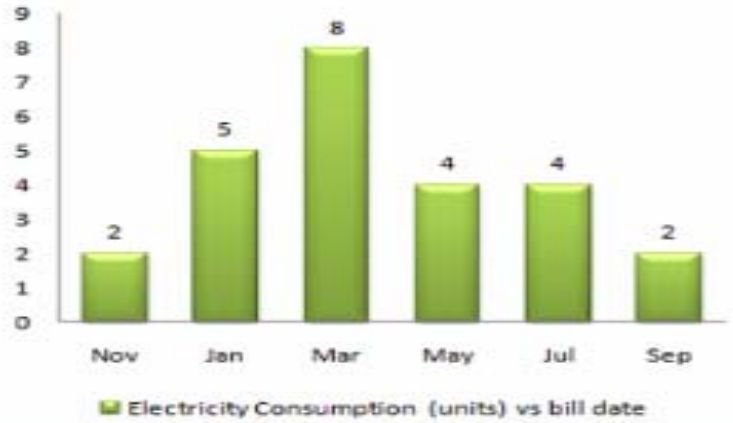
eading dates
interrupts
t management
ption overview

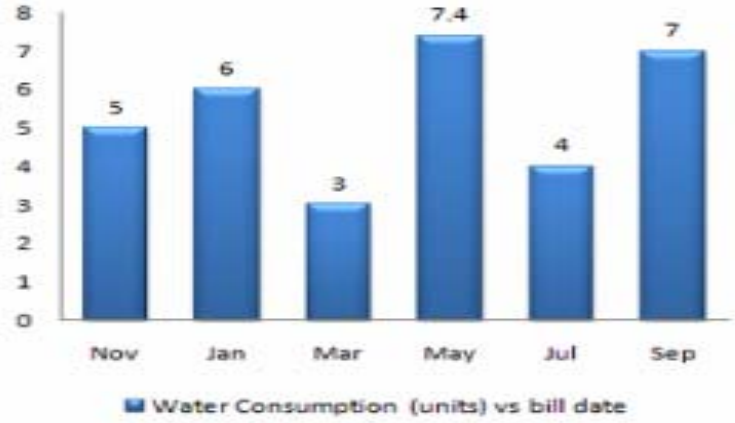
Last bills

	Date	Bill Number	Billed Amount	Balance	Status	Days overdue	Intere
!	22nd March	231123	200.23€	+180.45€	Open	67	3.
✓	25th April	123456	120.63€	+17.95€	Paid	0	0.
✓	15th May	234543	232.16€	+37.95€	Paid	0	0.
!	22nd June	1223667	122.56€	+77.89€	Open	23	0.
✓	14th July	34354632	211.89€	+55.55€	Paid	0	0.

see

Bills overview





Contract events

Here are your contract events summary for last period.

You consume more water than the average household

Your carbon footprint has been 20Kg of CO2

You have two unpaid bills | n

n benefits for the er

- performed on actual
s not on estimated
- mption optimization
- d of customer presence for:
  - ngs
  - act activation / de-activation
  - r level modification
- e tariff structure
- r solution of disputes - spot
s on request
- ity of billing periods

Benefits for the utility com

- Decreased cost of managing meters
- Demand side management knowledge of load profiles
- Better control of fraud
- Improved time to cash – pre actual bills
- Encourage use of energy ou peak hours
- Possibility of controlling the energy/water balance of each transformer substation / sub-
- Prioritisation of network inv

sitive Research

of Excellence is being set up to
t of contact for further research
vation in the energy and utilities
and to act upon new rising
es in the energy and
nental agenda

a need for an
solution able
ge, in an
d and real-time

1 energy consumption in buildings (smar
2 demand side management programs
3 carbon footprint monitoring on a regul
4 transport management and traffic cong
5 electricity and water metering
6 smart grid to manage the connections

Thank you