



SMART Water Management System

EFFICA ENERGY PRIVATE LIMITED

676, E.V.R. Periyar Salai,

Poonamallee High Road,

Amainthakarai, Chennai - 600029

Website : www.efficaenergy.com

Email : info@efficaenergy.com

Products and Services Offered:



Products

- Various Energy Meters
- Energy Monitoring System (EMS)
- Building Management Solution (BMS)
- Wireless Nurse Calling System
- Solar Net Metering
- BTS – Cell Tower Energy Monitoring

Services

- Billing Solution integrated with EMS
- Power Line Communication
- Automatic Meter Reading (AMR)
- Energy Data Analysis
- Harmonic Data Analysis
- Customized Design – Energy Solutions

- **Maximum Demand Controller (MD300)**
- **Dual Source MFM (MG300)**
- **Multifunction Meters (MF300)**
- **KWH Meters (KH300)**
- **DC Energy Meter (DW300)**
- **Automatic Power Factor Controller (APFCR) (CC300)**
- **VAF Meters**
- **Basic Panel Meters (V,I,Fr,PF)**
- **Utility Meters**

Water Meters Integration:

- ✓ Water Meters from Baylan
- ✓ Pulse to Digital Converter
- ✓ Communication
- ✓ Topology dependent
- ✓ Water Monitoring Software



Water Flow Metering Solution

Water Meter Solution



Baylan Woltmann type meters with Pulse output

1, 2, 4, 8
Channel –
SPZ Make
controller



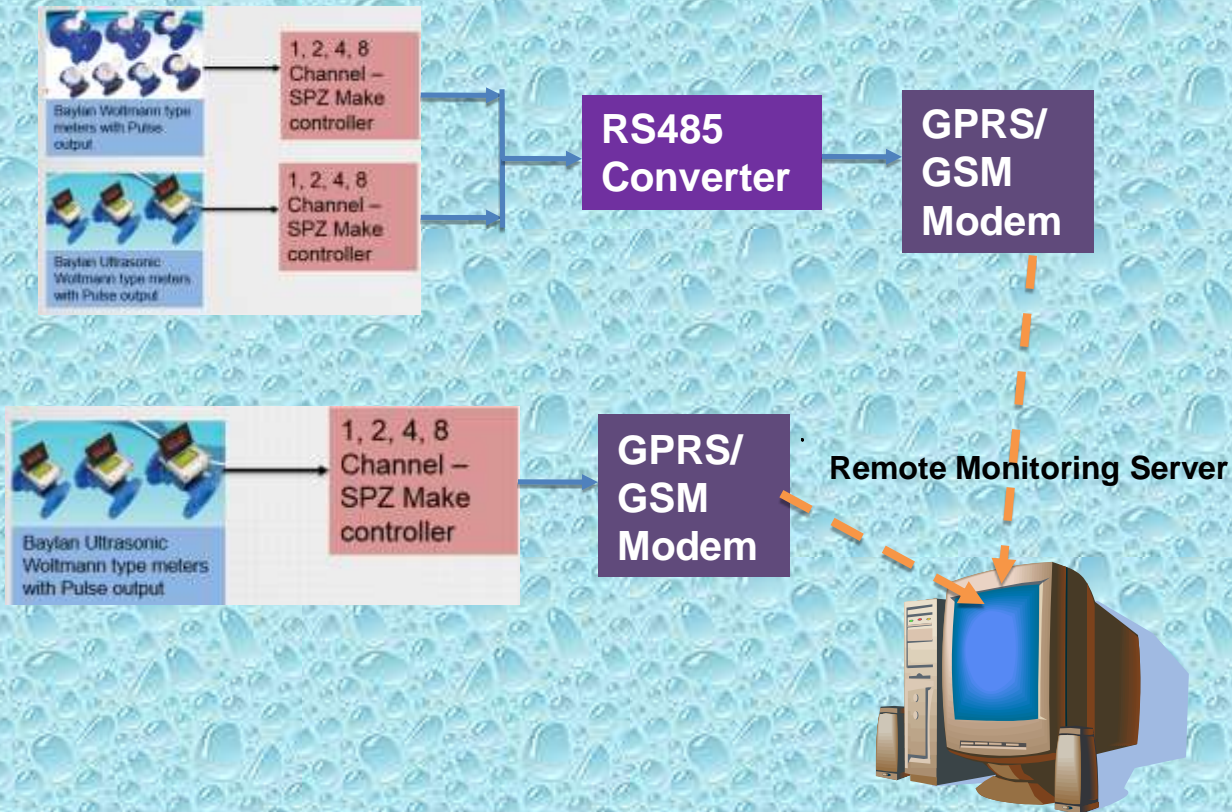
Baylan Ultrasonic Woltmann type meters with Pulse output

1, 2, 4, 8
Channel –
SPZ Make
controller

Features of the controller:

- ✓ Receive pulse from the Woltmann flow meter
- ✓ Option to receive pulse or 4-20mA output from the Pressure sensor
- ✓ Temporary memory to store the data received
- ✓ RS485 Option
- ✓ LCD display to show the received parameters locally
- ✓ MODBUS RTU Protocol

Water Meter Solution Contd.



- Multiple controllers in same location can be linked through RS485 – MODBUS RTU
- GPRS / GSM option will be provided along with the controller
- GPRS – polls all the data at regular intervals to a static IP address and the server shows all historical data – Customizable graphical analysis with alerts.
- GSM – Polls data at specific time interval to configure mobile numbers

BOQ – Arrived for typical project



S. No.	Description of Item
1 – Opt 1 OR	Conventional Woltmann flow meter (as per sizes provided in the PDF) with pulse output
2 – Opt 2	Ultrasonic Woltmann flow meter (decision to be made by client) – with pulse output
3	Single channel Pulse to digital controller + local memory (Observed that all are independent locations) – with inbuilt GPRS / GSM (field selectable) modem
4 – Option 1 GPRS	Remote Software – in case Static IP address is provided by us – Annual cost (Recurring), including bandwidth and server maintenance per year
5- Option 2 GPRS	One time Software cost – Server to be provided with Static IP Address by client
6 – Option 2 - Integration	Activation and Integration of data controller to the centralized server provided by client – as in Sl. No. 5 – Per Site

Software - ScreenShots









User: Shankar R [spzdemo]
Current Time: 03/08/2015 9:54:00




Admin Workshop Building

Meter	T	Y	TM	LM
HVAC KWH	1986.76	745.81	10567.56	10613.89
Light KWH	1919.00	719.00	10213.00	10292.00
Power CWH - EB	48.05	4.16	233.06	290.24
Power Cwh - DG	0.00	0.01	0.29	2.58
Equip. CWH - EB	0.39	0.77	7.94	17.65
Equip. Cwh - DG	0.00	0.00	0.20	3.36
WM - GF	125.00	60.00	996.00	1483.00
WM - GF (2nd Floor South)	391.00	53.00	1904.00	3557.00
WM - GF (2nd Floor North)	5.00	4.00	25.00	2.00
WM - GF (1st Floor Urinal)	22.00	26.00	205.00	0.00
WM - GF (2nd Floor Urinal)	29.00	66.00	272.00	135.00
WM - GF (2nd Floor EWC)	2193.00	637.00	4592.00	2733.00
WM - GF (Space 1)	0.00	0.00	0.00	0.00
WM - GF	0.00	0.00	0.00	0.00

Top 5 Loads - Feeder

T
 Y
 TM
 LM
 Include Incomers

Location	Meter	Units
Water meter-1 (GRND)	WM - 5th [6th Floor EWC]	8815.00
Admin Workshop Building	WM - GF [2nd Floor EWC]	2193.00
Water meter-1 (GRND)	WM - 5th [5th Floor EWC]	1229.00
Water meter-1 (GRND)	WM - 7th [7th Floor EWC]	492.00
Water meter-1 (GRND)	WM - 7th [6th Floor EWC]	470.00

Load Profile: **HOURLY** | DAILY | WEEKLY | MONTHLY | YEARLY

Select Date: 06-07-2015 | Graph Style: 3D - Column Chart | Show Values in graph

Submit

Consumption for 06/07/2015 12:00 AM - 06/07/2015 11:59 PM



Units

Date / Time

• KWH

Electrical - HVAC [02]

Location: Incomer - Admin Workshop Building

Consumer: Demo - Building Owner

+ Show IHR / FHR Data - KWH

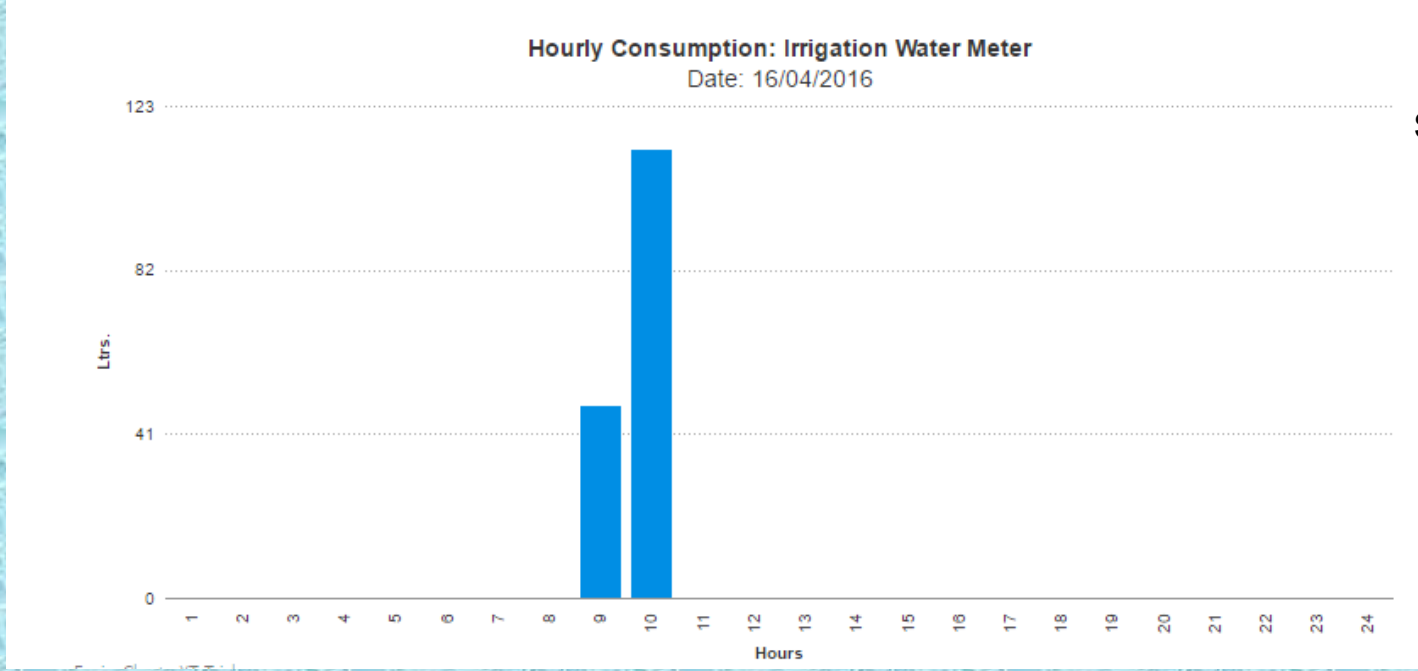
Software Screenshot



HOURLY DAILY WEEKLY MONTHLY YEARLY

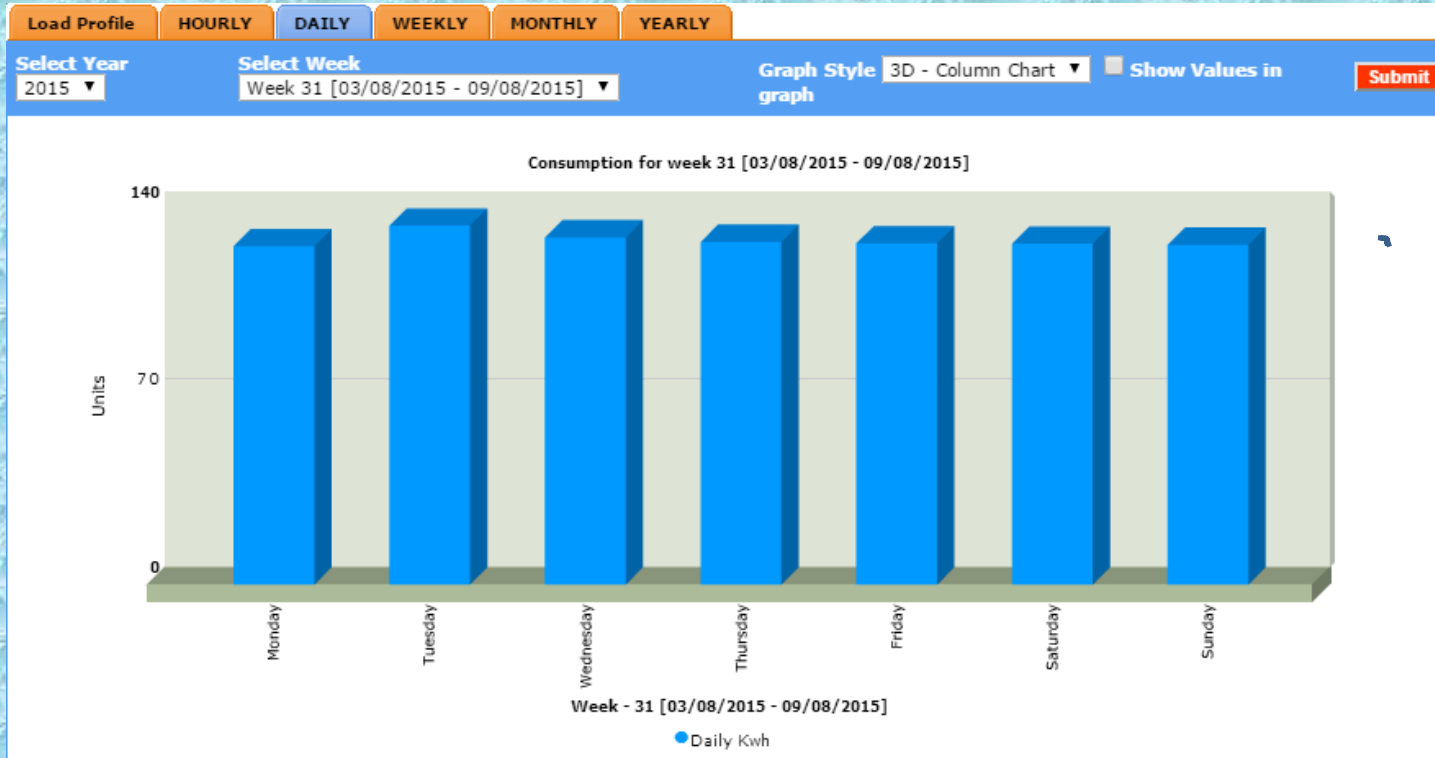
Select Date **16-04-2016** Hourly Target **10000.** Units Graph Style **2D - Column Chart** Show Values in graph **Sub**

Irrigation Water Meter [0A]	Location: emiratesteel - Electrical Room (office Block)	Consumer: Emiratesteel
Consumption per day	Average per hour	Peak Value
160.00 (Ltrs.)	6.67 (Ltrs.)	112.00 (Ltrs.)



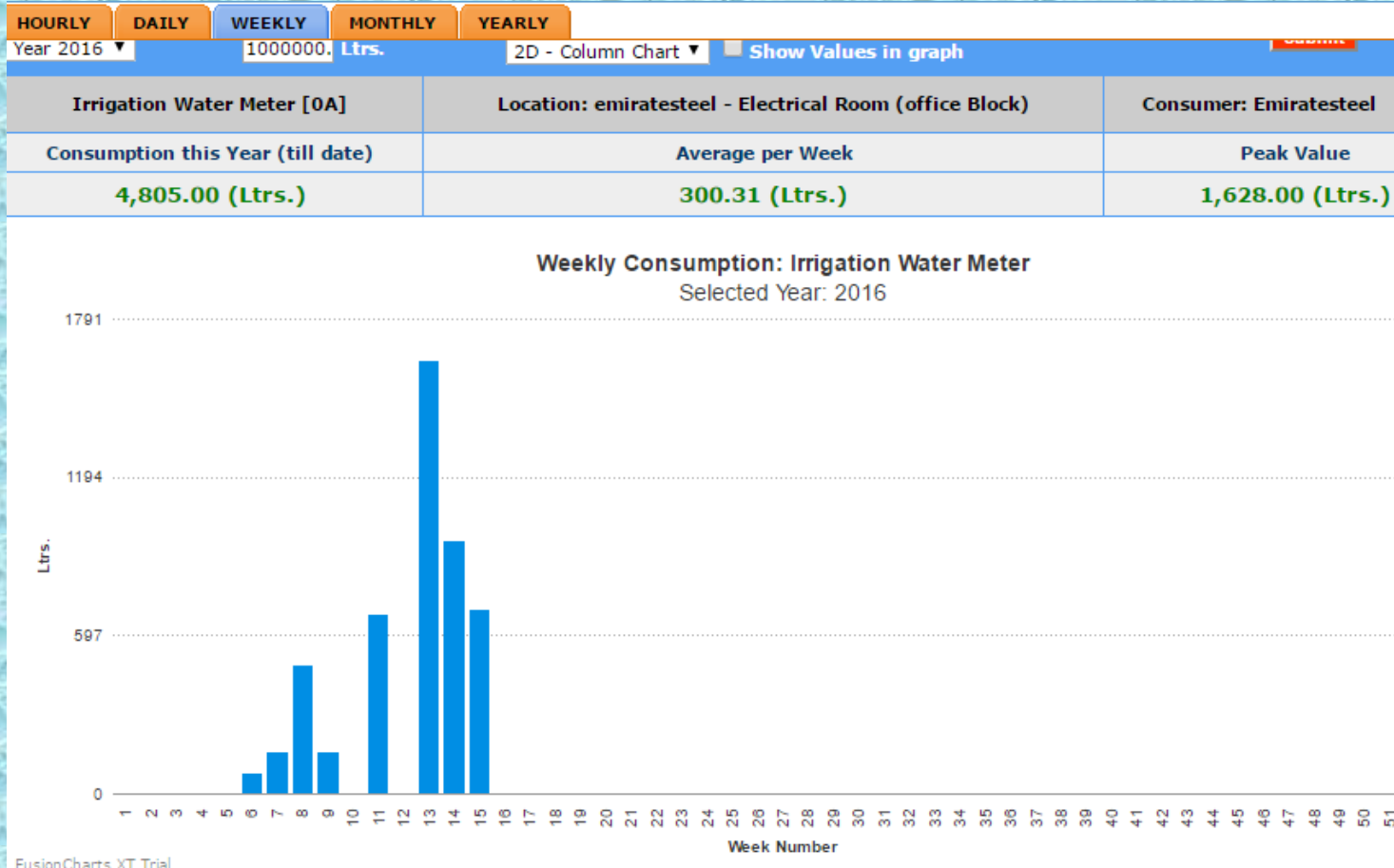
Select date and see Hourly report

Software Screenshot



Select Year and Week and see Daily report

Software Screenshot



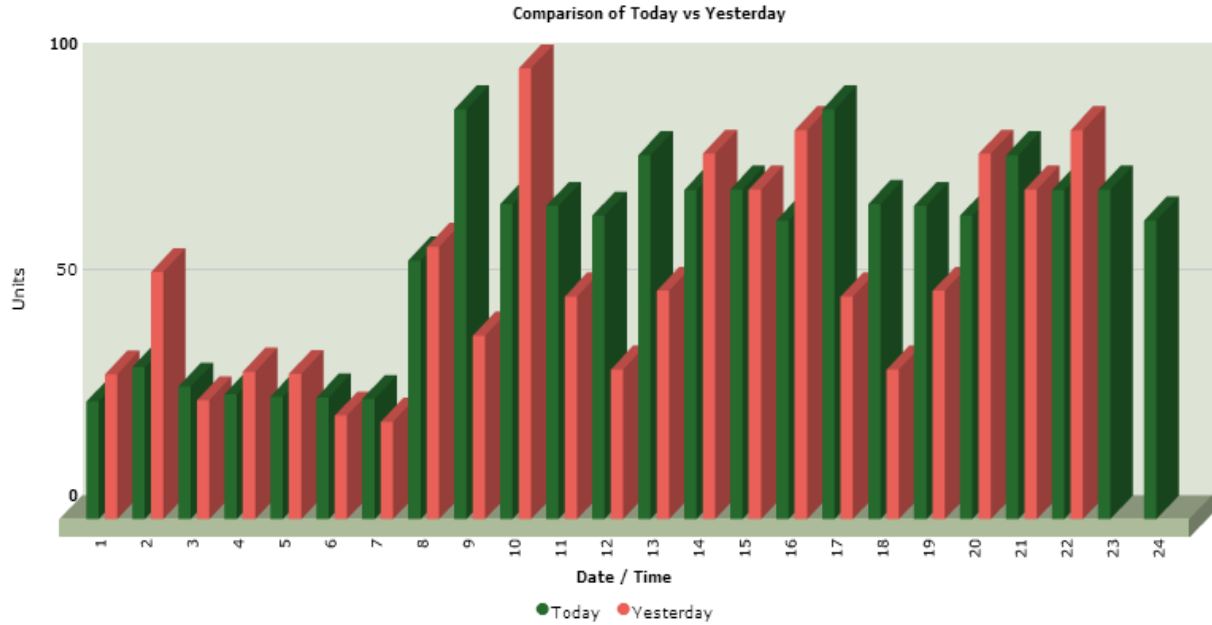
Select Year
and see
weekly
report

Software Screenshot



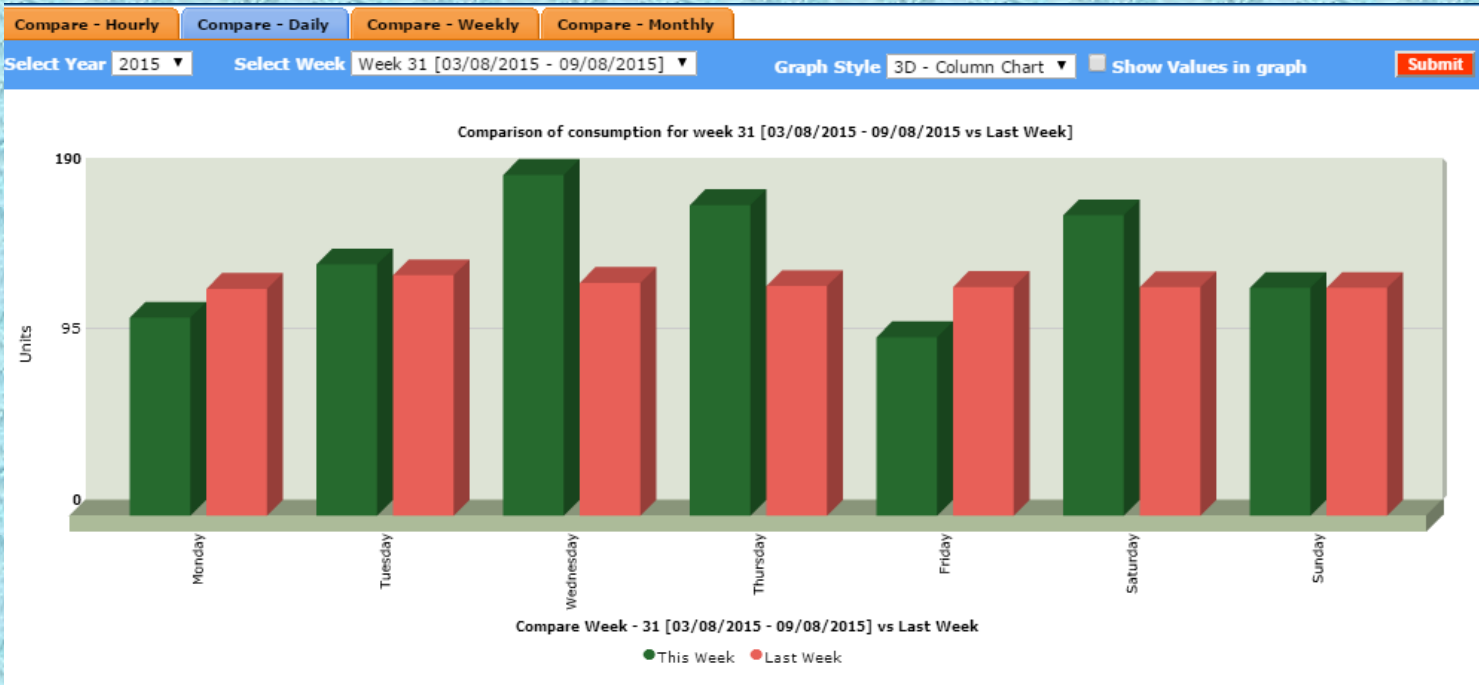
Compare - Hourly | Compare - Daily | Compare - Weekly | Compare - Monthly

Select Date Graph Style Show Values in graph



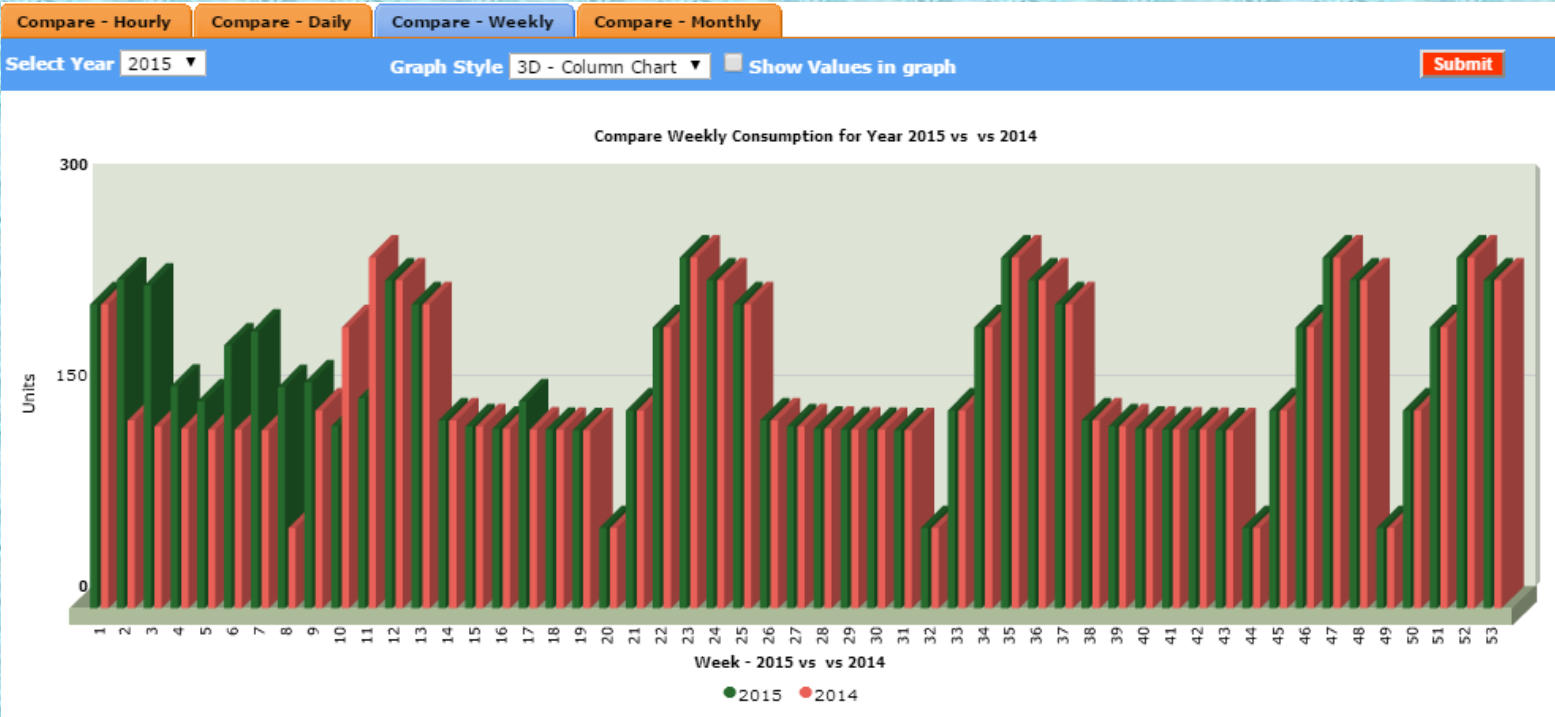
Select date and see Today vs Yesterday comparison

Software Screenshot



Select week and see This week vs last comparison

Software Screenshot



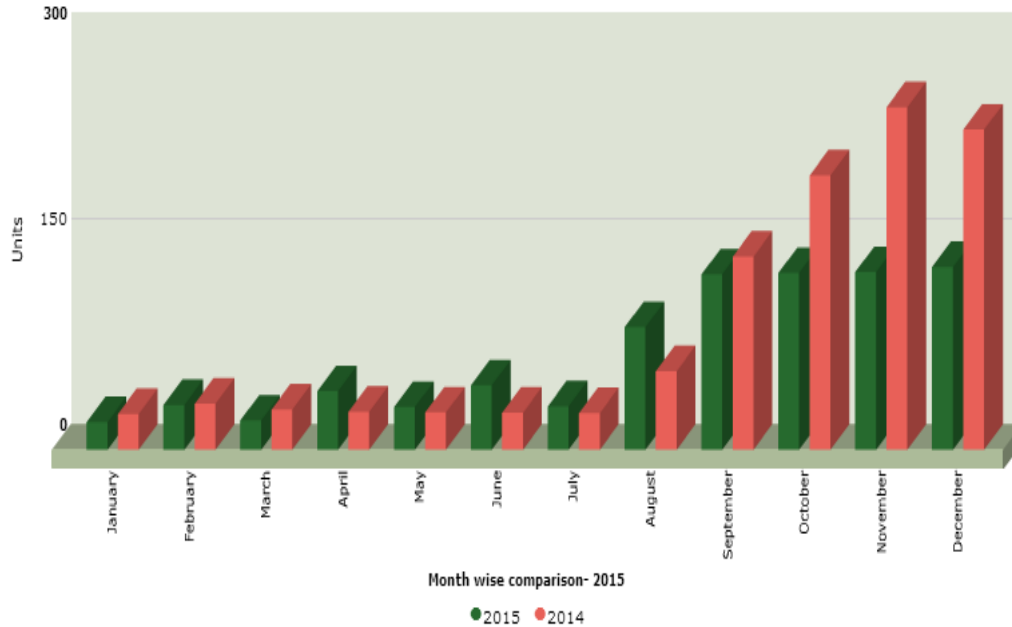
54 Week comparison between this year and last year

Software Screenshot



Select Year **2015** Graph Style **3D - Column Chart** Show Values in graph **Submit**

Comparison of Consumption for Year 2015 vs 2014



Monthly comparison
between this year and last
year

Other Prominent features



- ▶ Alarm provision based on settings provided
- ▶ Peak Consumption alarm shall be provided in the application

User: Shankar R [emiratesteel]
Current Time: 03/05/2016 18:03:59

Daily Target - EM-PU-01 | 18/04/2016 5:13 AM - Daily Target of maximum KWH, set for this meter has exceeded - 1.2275 as against target of 864

Alarms History

Alert Name	Description	Meter Name	Parameter Name	Display Alert	Value Reached	Next display reminder date set	First occurred date
Daily Target	Daily Target of maximum KWH, set for this meter has exceeded	EM-PU-01 [EM-PU-01]	KWH	Parameter Name Greater Than OR Equal To 864	1.2275		18/04/2016 05:13
Daily Target	Daily Target of maximum KWH, set for this meter has exceeded	EM-PU-01 [EM-PU-01]	KWH	Parameter Name Greater Than OR Equal To 864	1.2275		18/04/2016 05:13
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Daily Target	Daily Target of maximum KWH, set for this meter has exceeded	EM-PU-01 [EM-PU-01]	KWH	Parameter Name Greater Than OR Equal To 864	1.2275		18/04/2016 05:13

Partial Client List



 <p>TECCI PARK complete harmony</p> <p>ECICI Info Park Limited (Teccipark), OMR Road, Chennai</p>	 <p>Shriram Properties Homes that live in you</p> <p>Shriram Properties and infrastructure (The Shriram Gateway), SEZ IT Park, Perungalathur, Chennai</p>	 <p>Atomic Research Centre (IGCAR), Kalpakkam</p>	 <p>BSNL Connecting India</p> <p>Bharat Sanchar Nigam Limited, Greams Road, Chennai</p>
 <p>Taminadu Small Industries Development Corpn, Chennai</p>	 <p>PS Srijan Realty, Grand Mall , Velachery, Chennai</p>	 <p>Taj Gateway (Lebara Hotels and Hospitality Pvt Ltd), Chennai</p>	 <p>Tata Consultancy Services, Chennai</p>
 <p>Swelect Energy Systems Limited, Salem</p>	 <p>RR Industries Limited, Chennai</p>	 <p>Agile Electric Sub Assembly, Maraimalai Nagar, Chennai</p>	 <p>Government of Tamilnadu, Electrical Inspectorate, Chennai</p>
 <p>Renaissance Doha City Centre Hotel, Qatar (through Contractor)</p>	 <p>Superior Builders and Engineers Limited Dhaka, Bangladesh</p>	 <p>PE Engineering Pvt Ltd., Srilanka</p>	 <p>NTECL, Vallur, Chennai (through RPP)</p>

THANK YOU

Kindly Contact us if interested in any of the above products.

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