BALANCE

User guide
AMM system «BALANCE»

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1. Access to data of AMM system BALANCE

If you have a system remote Automated Meter Management (AMM) BALANCE, you can use any Internet browser to access your data consumption of gas, water, heat, electricity.

Consumption data can be looked on the website www.djv-com.org for this in section *«Data»* select *«Web – Data Access – Login»:*

For access the system you will need in the line *«The serial number of the radio module»* - type the serial number of the radio module, and in the line *«The serial number of the meter»* - the serial number of your meter.

Non-significant zeros do not need to enter. The system can remember your access settings, if you do not want to enter them each time anew. For this, it is necessary to establish a tick *«Remember me».* Also there is opportunity to choose language: English, Romanian or Russian.

Below for example are shown two types of the meters «Actaris» and «Elster» with the installed magnetic sensors and radio modules.

On the example of the left photo you should enter *«The serial number of the radio module»*- 4511 and *«The serial number of the meter»* - 60606006. On the example of the right photo you should enter *«The serial number of the radio module»* - 5024 and *«The serial number of the meter»* - 22711271.
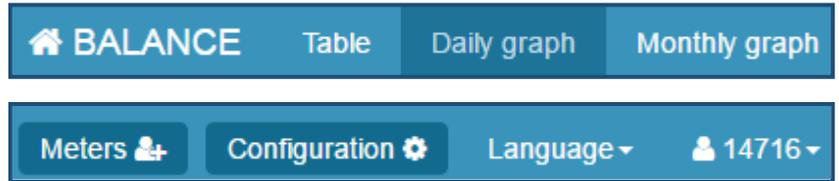

After introduction *«The serial number of the radio module»* and *«The serial number of the meter»* you get on the page with your data of consumption.

2. Work with data of consumption

In the top tab there are following menu items:
- Table;
- Daily graph;
- Monthly graph;
- Meters;
- Configuration;
- Language;
- Number of radio module.

2.1 Table

In the menu *«Table»* are presented the data consumption of your meters as a table. In the top window it's possible to choose the period from and to show data. After the selection period click the «Update» and in the table will appear data. The number of days for which we want to see the data shall not exceed 41 days, otherwise the program will generate an error.

To create a report we choose *«Export»* and in the window that appears, choose the *«Export type»* data, *«Columns»* that will be contained in our report and click *«Export».*
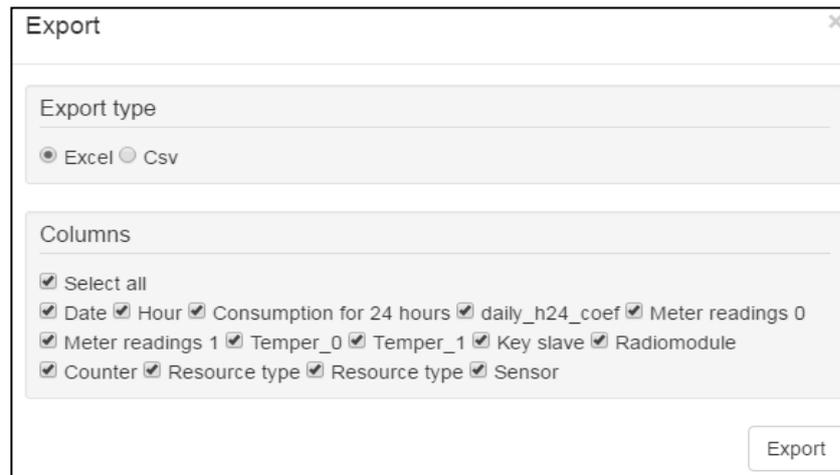
In *«Export type»* are two formats of data:
- Excel (Microsoft);
- Csv (text format).

In the window *«Columns»* can select the following data types:
1. *Date* - date for which data are shown;
2. *Hour* - time in which data have been obtained;
3. *Consumption of 24 hours* - the amount of gas, water (hot, cold), electric power or heat is spent in 24 hours;
4. *daily_h24_coef* – technological field (corrected consumption by temperature and/or pressure for gas);
5. *Meter Readings 0* - reading your meter;
6. *Meter Readings 1* - technological field (number pulses), or for the metering heat the indications consumed heat carrier (water meter readings) for this date in liters;
7. *Temper_0* - indications temperature of the supply pipeline at 00 o'clock for this date in degrees Celsius (for the accounting heat);
8. *Temper_1* - indications temperature of the return pipeline at 00 o'clock for this date in degrees Celsius (for the accounting heat);

9. *Key slave* - technological field (number the radio module in the database);
10. *Radiomodule* - radio module serial number;
11. *Counter* - serial number of the meter;
12. *Resource Type* – water, gas, heat, electricity;
13. Sensor - technological field.

Choose the meter interesting you, if you have several, and in the table appear data for this counter for the chosen period.

	Id: 14716 Meter: 1607667, Type: water		Id: 14716 Meter: 1619144, Type: water		Id: 187 Meter: 26364644, Type: gas	

| | Id: 2826 Meter: 79199618, Type: heat | | Id: 26074 Meter: 22456746, Type: electricity | |

	Date	Hour	Consumption for 24 hours	Meter readings 0	Meter readings 1	Temper 0	Temper 1	Sensor	Coefficient: m3
1	2016-05-27	23:59:59	0.1000	82.1530	82089.0000	0.0000	0.0000	0.0000	0.1000
2	2016-05-28	23:59:59	0.0920	82.2440	82180.0000	0.0000	0.0000	0.0000	0.0920
3	2016-05-29	23:59:59	0.0440	82.2890	82225.0000	0.0000	0.0000	0.0000	0.0440
4	2016-05-30	23:59:59	0.0000	82.2890	82225.0000	0.0000	0.0000	0.0000	0.0000
5	2016-05-31	23:59:59	0.0960	82.3850	82321.0000	0.0000	0.0000	0.0000	0.0960
6	2016-06-01	23:59:59	0.0360	82.4200	82356.0000	0.0000	0.0000	0.0000	0.0360
7	2016-06-02	23:59:59	0.0000	82.4200	82356.0000	0.0000	0.0000	0.0000	0.0000
8	2016-06-03	23:59:59	0.0040	82.4250	82361.0000	0.0000	0.0000	0.0000	0.0040
9	2016-06-04	23:59:59	0.1100	82.5340	82470.0000	0.0000	0.0000	0.0000	0.1100
10	2016-06-05	23:59:59	0.0220	82.5560	82492.0000	0.0000	0.0000	0.0000	0.0220
11	2016-06-06	23:59:59	0.0700	82.6270	82563.0000	0.0000	0.0000	0.0000	0.0700
12	2016-06-07	23:59:59	0.0500	82.6770	82613.0000	0.0000	0.0000	0.0000	0.0500
13	2016-06-08	23:59:59	0.0820	82.7580	82694.0000	0.0000	0.0000	0.0000	0.0820
14	2016-06-09	23:59:59	0.0400	82.7990	82735.0000	0.0000	0.0000	0.0000	0.0400
15	2016-06-10	23:59:59	0.1080	82.9070	82843.0000	0.0000	0.0000	0.0000	0.1080

In the table we can look at the following parameters:
 - *Date* - date for which data are shown;
 - *Hour* - time in which data have been obtained;
 - *Consumption of 24 hours* - the amount of gas, water (hot, cold), electric power or heat is spent in 24 hours;
 - *Meter Readings 0* - reading your meter;
 - *Meter Readings 1* - technological field (number pulses), or for the metering heat the indications consumed heat carrier (water meter readings) for this date in liters;   - - -
 - *Temper 0* - indications the sensor temperature of the supply pipeline at 00 o'clock for this date in degrees Celsius (for the accounting heat);
 - *Temper 1* - - indications temperature of the return pipeline at 00 o'clock for this date in degrees Celsius (for the accounting heat);
 - *Sensor* - technological field;
 - *Coefficient* - technological field (corrected consumption by temperature and/or pressure for gas);
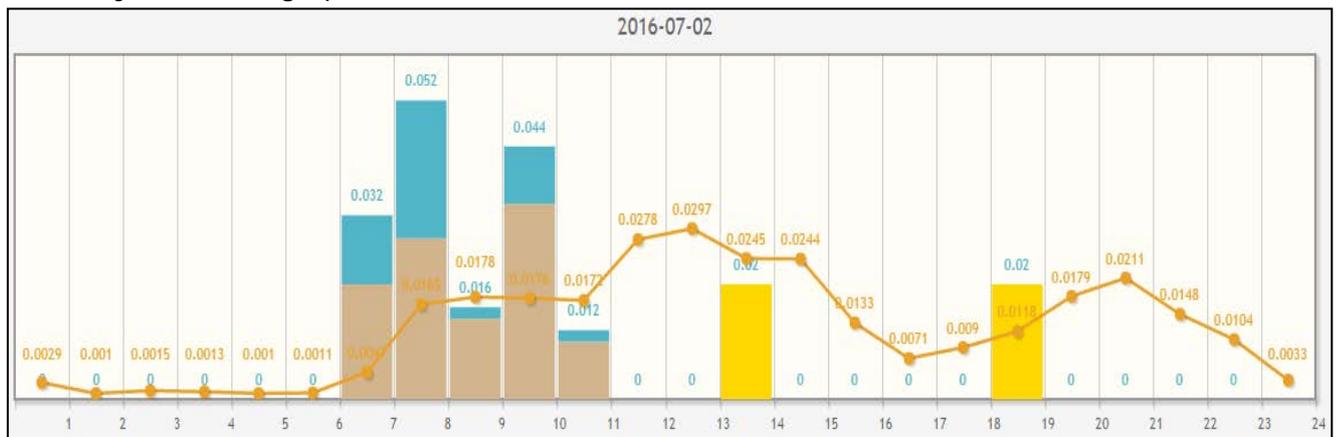
2.2 Daily graph

On the appeared graph it is possible to choose desirable day of month and to look on it hourly consumption. Herewith the diagram in the form columns shows the consumption of the selected meter, and a polyline shows the average consumption of the object.

In the left top corner displays the month for which the derived data. Using buttons the previous/next month it is possible to look the graph for other month.
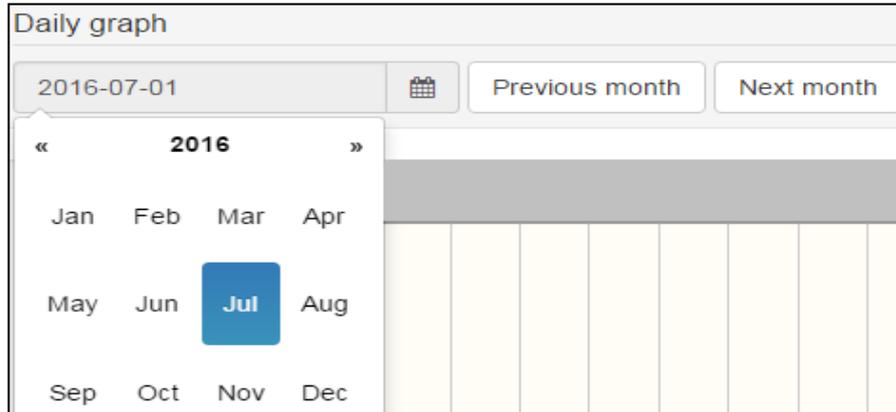
By selecting one of the days of the week and pressing it twice we will see hourly the meter data daily under the graph.


Above graphs displays three digits - the sum of consumption on the current date from beginning of the month, forecast for the end of month and the average daily consumption for a given consumer.
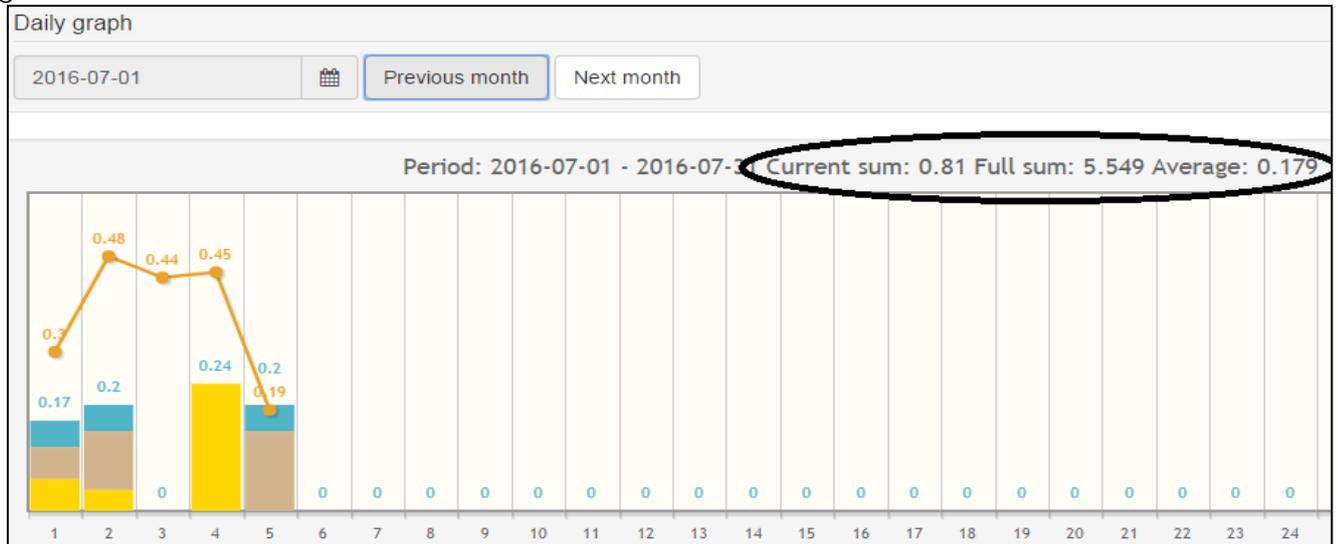
In the menu *«Daily graph»* it is possible to enable / disable one or the other meter. By default, all inclusive, and the graph shows all the meters in a single column, but each painted its color.

If you click on any of the meters it is deleted and disappears from the graph, so we can choose what counters to look at the graph. You can select meters or resource type, or from the fact that you have:

1. *Water* - cold water;
2. *Water* - hot water;
3. *Gas* – gas;
4. *Heat* – heat;
5. *Electricity* – electricity;
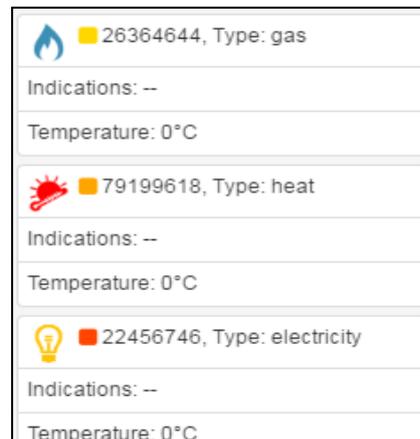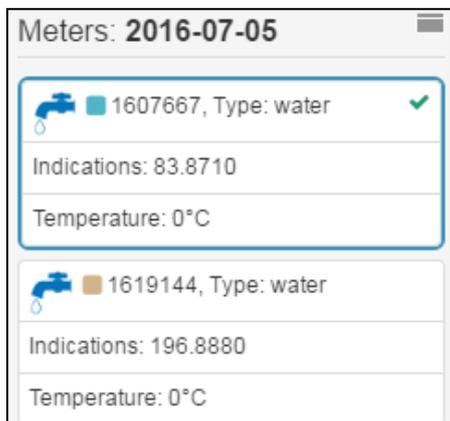
For each meter the following information is displayed:
- Type - resource type;
- Indications - indications for the selected day;
- Temperature - to 00 hours (starting with version 11 software radio module).

In the menu *«Other data»* you can choose one of the parameters:

1. *Object average;*
2. *Object temperature;*
3. *Object average temperature.*

«Object average» average consumption on the object is calculated based on the number of devices that have non-zero consumption at a given date.
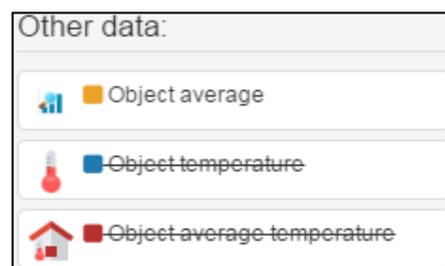
The menu *«Consumption»* can choose:
- Consumption coefficient - ratio your consumption to average consumption of the house;
- Temperature coefficient - ratio your temperature to average temperature in the house;
- Energy efficiency - the ratio of your energy efficiency (the amount spent cubes of gas per degree of temperature in the room) to the average energy efficiency of the house.
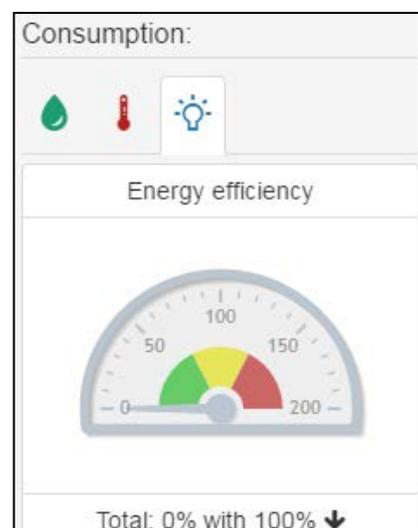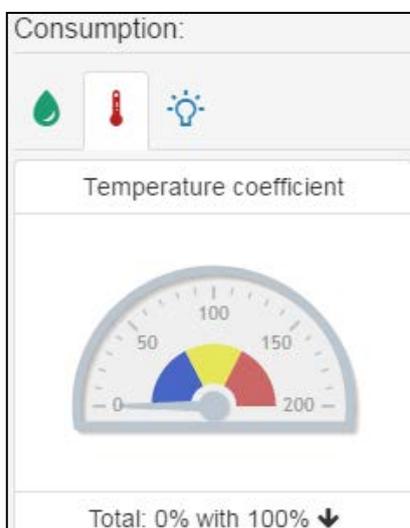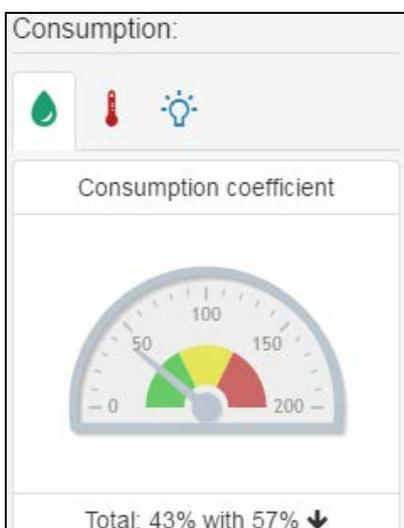
2.3 Monthly graph

On the *«Monthly graph»* you can see the data for the whole year. This is useful if we want to see the data for the last year and compare them with the current year, to see the difference between the cost for the current year and the previous year.
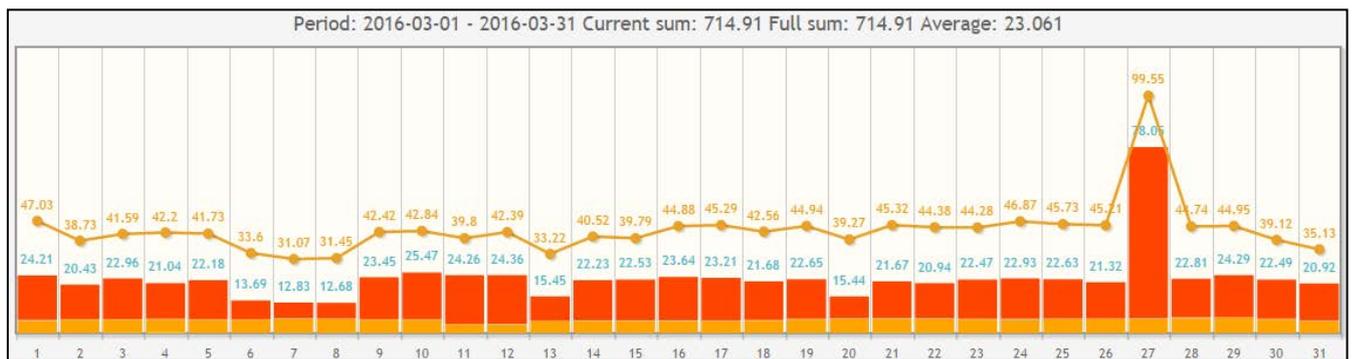
At the top of the window you can choose the calendar buttons, or the previous / following year for which want to see details.
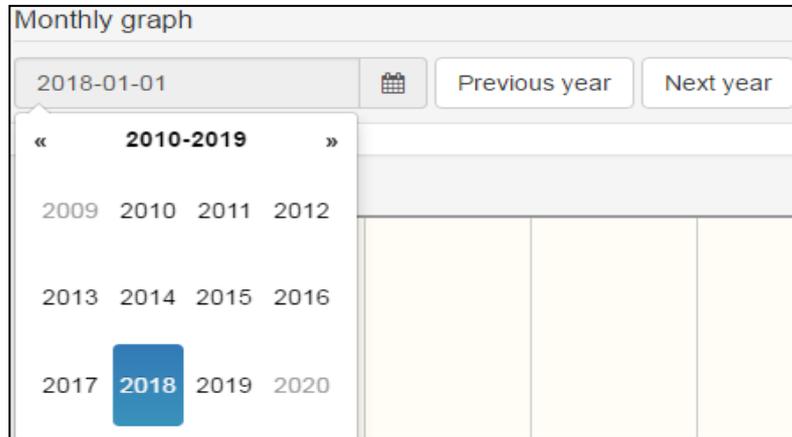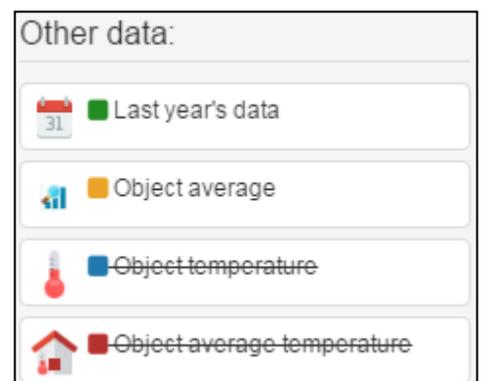

In the top window, we will see the data for the selected year, for the counter that we have chosen.
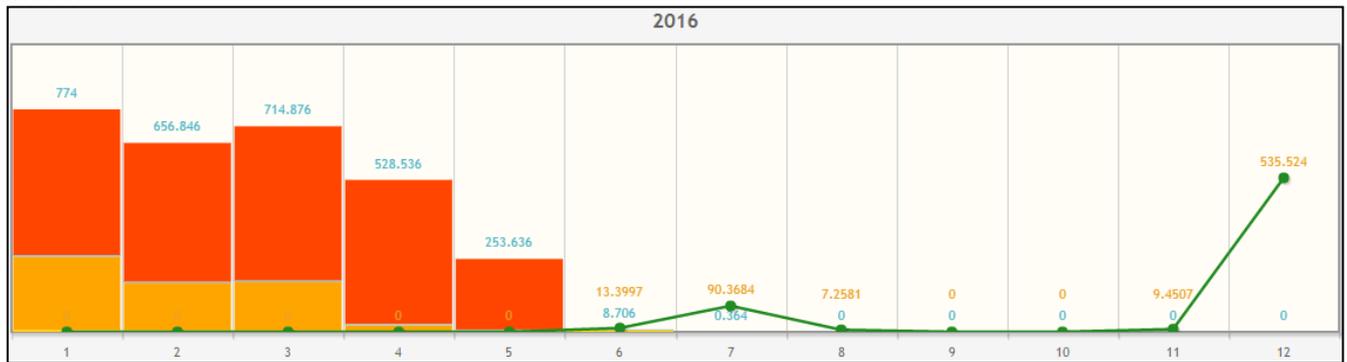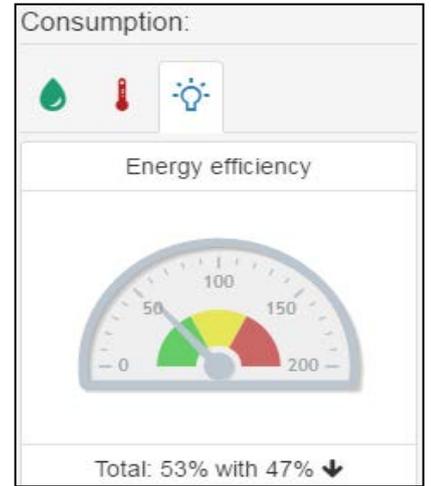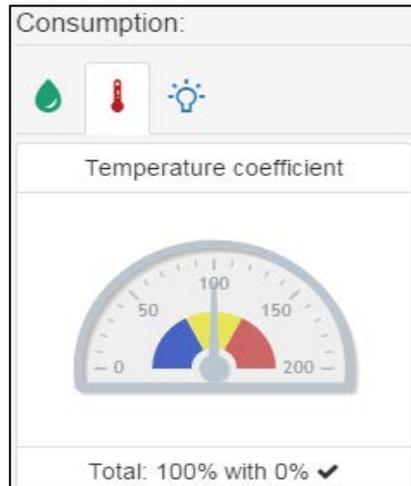

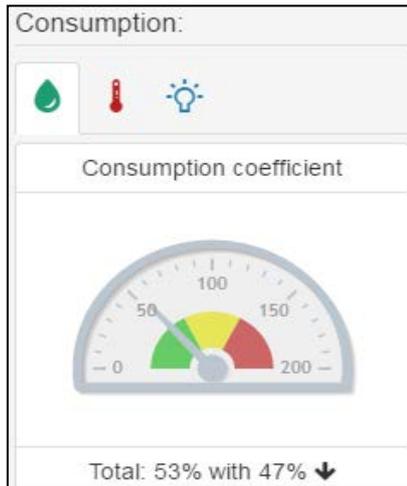By clicking twice on the month of interest to us, we will see a graph with daily data for the selected month.

In the menu *«Other data»* there is an option *«Last year's data»* to include it on the graph, we can see a green line that shows how much of the resources spent in the previous year. Options *«Object average»*, *«Object temperature»*, *«Object average temperature»* displayed is only in a window with data in a month.

Also we can see the consumption rate for the year.

Consumption:	Consumption:	Consumption:
Consumption coefficient	Temperature coefficient	Energy efficiency
Total: 53% with 47% ↓	Total: 100% with 0% ✔	Total: 53% with 47% ↓

2.4 Meters

In the menu *«Meters»* we can see a list of installed meters, we can add meters for «Radio module ID» and «Meter ID» and if necessary remove unnecessary us meters from the list.

Active meters   ×

To add a new meter, enter the radio module id and id meter!

Add meter

Radio module id: **Meter id:**

Enter serial number   Enter serial number   Add meter

	Radiomodule	Counter	Resource type	Actions
1	14716	1607667	water	🗑
2	14716	1619144	water	🗑
3	187	26364644	gas	🗑
4	2826	79199618	heat	🗑
5	26074	22456746	electricity	🗑

2.5 Configuration

In the menu *«Configuration»* we can select the type of resource that will be displayed on the graph or in the table, and change the color of each of the meters.

Configuration ⚙   Language ▾   👤 14716 ▾

Meters: ⚙

☑ Id: 14716 Meter: 1607667 - water

m3   ▾

☑ Id: 14716 Meter: 1619144 - water

m3   ▾

☑ Id: 187 Meter: 26364644 - gas

m3   ▾

☑ Id: 2826 Meter: 79199618 - heat

m3   ▾

☑ Id: 26074 Meter: 22456746 - electricity

m3   ▾

Refresh

It is possible to look through consumption in various dimensions (the choice of dimension over the graph of consumption) by default it is m3, it is also possible to choose:
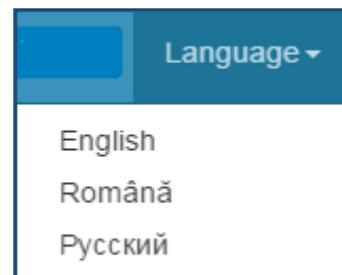- USD - dollar США;
- MDL - Moldovan Leu (MDL);
- CO2 - emissions of CO2 in kg;
- TREE - quantity of the big trees required for processing CO2 emission for this consumer;
- Mcal - consumed equivalent of heat at Mcal.
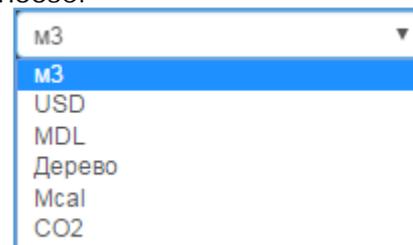
For the changes to take effect you need to click *«Update»*.

2.6 Language
The choice has three languages: Romanian, English or Russian.

2.7 My profile (in the work)
In the right top corner there is a menu *«My Profile»* where the filling in these fields, you can receive messages by email or SMS in case of occurrence of the events selected in the menu (ev_xxxx).
1. *Meter;*
2. *First name;*
3. *Last name;*
4. *E-mail;*
5. *I want to receive;*
6. *Phone number 1;*
7. *Phone number 2.*

After entering information click *«Save»* to the information stored in the database.