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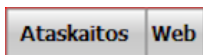
TM : SCADA Reports Creator

User Manual

Working with “General Reports”

CALL FOR THE REPORTS

In the SCADA window, press the "General Reports" dedicated report call button (*this button is displayed taking into account the general design structure of the SCADA system and the name and location of the button may differ*) :



- **Reports** - the report window is called in the SCADA program window;
- **Web** - the report window is called in the Google Chrome browser (if it is installed). In the browser, when opened, there is an additional graphical display of reports (see photo below). **In the SCADA program window, due to the limitations of the SIEMENS software, the display of graphs is disabled.**



- In order to call the report window from any browser (available browsers are **Google Chrome, Safari, Microsoft Edge, Mozilla Firefox**), you need to enter the appropriate links in the browser:

“General Reports” reports:

http://localhost:83/src/reports/report_gr_title.php

“Custom Reports” reports:

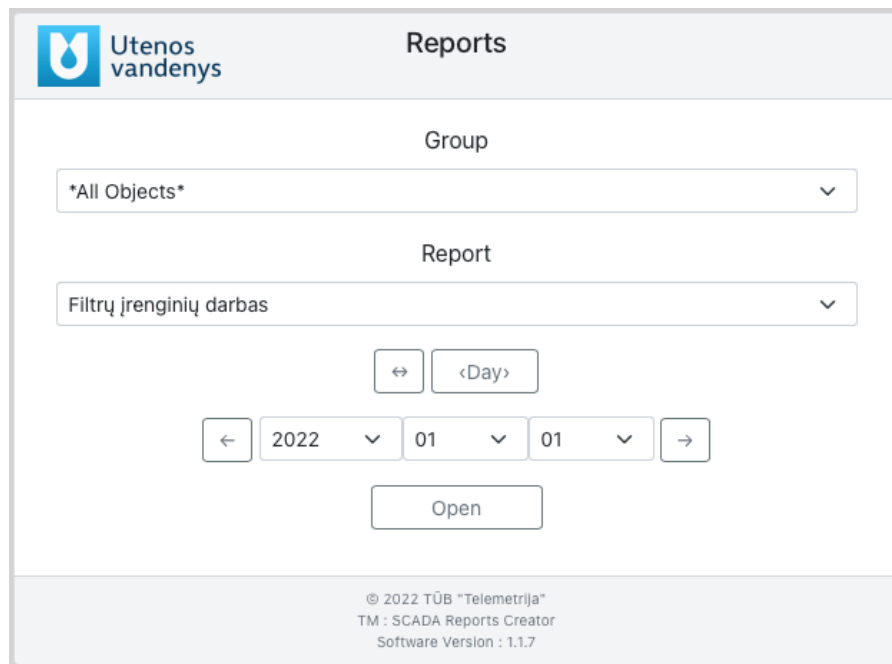
http://localhost:83/src/reports/report_cr.php







“Service Reports” reports:

http://localhost:83/src/reports/report_sr.php

REPORTS CONTROL

Title window of “General Reports”:



- **Group** - selection box for the desired group of reports;
- **Report** - selection box for the desired report from the existing group;
-  - Einamos dienos, mėnesio ar metų, automatinis datos nustatymas;
-  - Interval selection button. When pressed, the intervals change cyclically: <Day> / <Year> / <Month>;
-  - The "push" of the selected time back through the set interval;
-  - The "push" of the selected time forward through the set interval;
-  - Date selection boxes;
-  - Button to open the selected report;

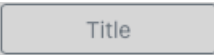



A detailed window of the “General Reports” :




Utenos vandenys


2022 01 01 Report period: Day

Filterų įrenginių darbas


Hour	SUVARTOTA EL. ENERGIJOS							ORO SRAUTAS		SUVARTOTA VANDENS		
	EL energijos skaitiklis, kWh	El.energija OR01, kWh	EL energijos skaitiklis, kWh	El.energija OR02, kWh	EL energijos skaitiklis, kWh	El.energija SPL01, kWh	EL energijos skaitiklis, kWh	El.energija SPL02, kWh	Viso suvartota el. energijos, kWh	DM6 oro srautas, m³/h	DMS vandens skaitiklis, m³	DMS suvartota vandens, m³
00	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
01	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
02	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
03	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
04	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
05	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
06	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
07	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
08	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
09	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
10	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00		267375.84	0.00
11	3628.00	0.00	2842.60	0.00	2927.60	0.00	3449.60	0.00	0.00	712.50	267375.84	0.00
12	3632.80	4.80	2842.60	0.00	2928.90	1.30	3449.60	0.00	6.10	650.00	267427.25	51.41
13	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
14	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
15	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
16	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
17	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
18	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
19	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
20	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
21	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
22	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
23	3632.80	0.00	2842.60	0.00	2928.90	0.00	3449.60	0.00	0.00		267427.25	0.00
		Total: 4.80		Total: 0.00		Total: 1.30		Total: 0.00	Total: 6.10			Total: 51.41

-  - Return to the title window;
-  - Exporting the selected report to a Microsoft Excel program *.xlsx file;
-  - Printing of the selected report using the means provided by the browser or SCADA program;
-  - Changing the representation of the selected report (in the form of a table or in the form of a chart). Using the schedule mode is described in more detail below.

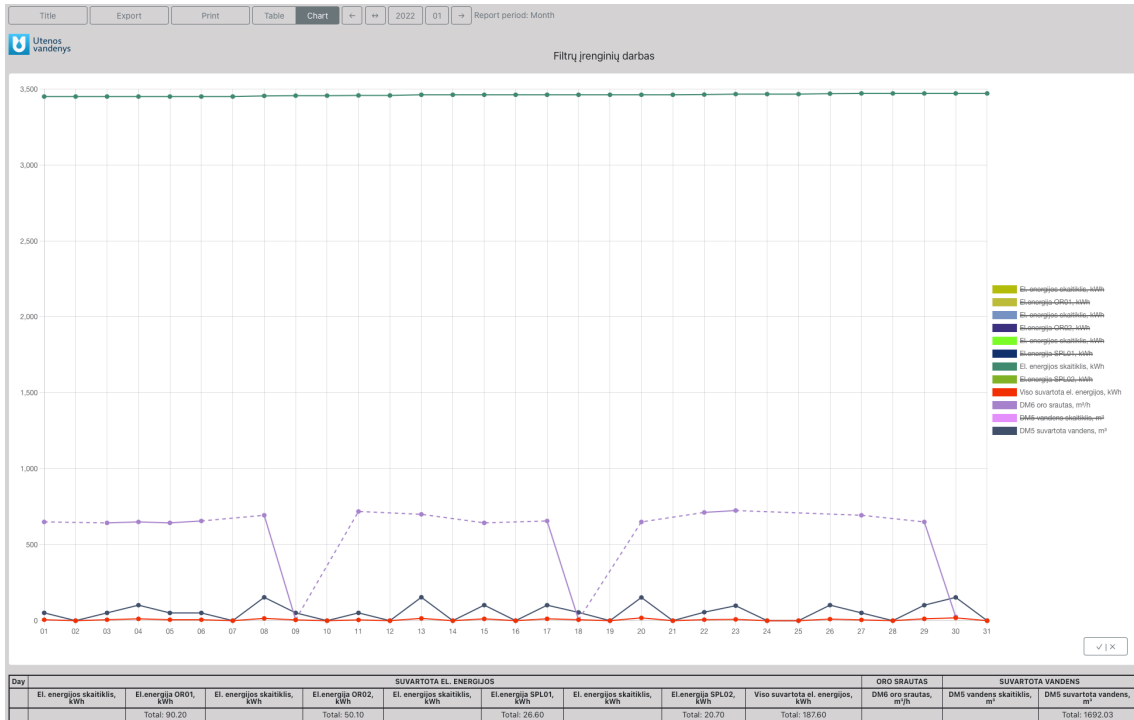
-  - The "push" of the selected time back through the set interval;
-  - Current day, month or year, automatic date setting;
-  - Date selection boxes. By clicking on **2022**, you can immediately open the report for the "year" period, respectively, by pressing **08**, you can open the report for the "month" period and **30**, the "day" period report.

-  - The "push" of the selected time forward through the set interval;



-  - In annual and monthly reports, by clicking on the desired interval button, be it a month or a day, depending on the interval of the opened report, you can open a report for the selected interval period.

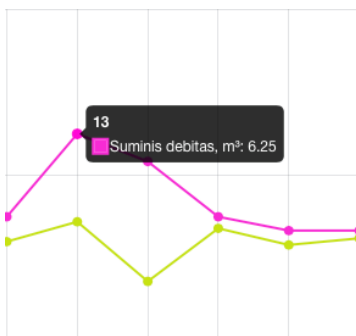
A detailed window in the form of a graph of the “General Reports” (available only on the platform of WEB browsers):



- Top navigation buttons (see table type description);
- **X axis** - parameter value axis;
- **Y axis** - values of the selected time interval, respectively day (00..23 h), month (00..28/30/31) and year (01..12);



- - Buttons for displaying or hiding parameter curves. Clicking on a note or color shows or hides the parameter curve;



- - Specific values of the parameter and its time interval can be displayed by hovering the mouse over the desired "point";

Day	SUVARTOTA EL. ENERGIJOS							ORO SRAUTAS		SUVARTOTA VANDENS		
	El. energijos skaitiklis, kWh	El. energija ORO1, kWh	El. energijos skaitiklis, kWh	El. energija ORO2, kWh	El. energijos skaitiklis, kWh	El. energija SPL01, kWh	El. energijos skaitiklis, kWh	El. energija SPL02, kWh	Viso suvartota el. energijos, kWh	DMS oro srautas, m³/h	DMS vandens skaitiklis, m³	DMS suvartota vandens, m³
		Total: 90.20		Total: 50.10		Total: 26.60		Total: 20.70	Total: 167.60			Total: 1692.03

- Table section for displaying totals, averages, and minimum and maximum values for the selected range, as well as table descriptions;

-  Siurblys M1 darbo laikas, val
-  Įsijungimų skaičius M1
-  Siurblys M2 darbo laikas, val
-  Įsijungimų skaičius M2
-  Smulkintuvas SM darbo laikas, val
-  Įsijungimų skaičius SM
-  Suminis debitas, m³
-  El.energija, kWh

-

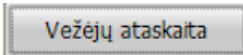


- Show or hide all curves button;

Working with "Custom Reports"

CALL FOR THE REPORTS




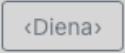




In the main window, click on the button dedicated to "Custom Reports" (this button is displayed according to the general design structure of the SCADA system and the name and location of the button may differ):




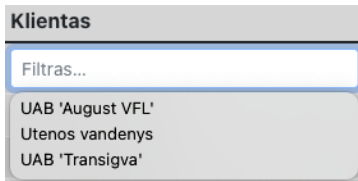
REPORTS CONTROL

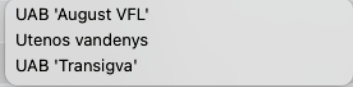
Detailed "Custom Reports" user window :


Data	Klientas	Vežėjas	Q priėmimo, m³	pH	ORP, mV	Cond, ms/cm	T, °C	Qsum, m³
2022-07-01 09:27:46	UAB 'Utenos komunalininkas'	FRS165	1.646	8.45	-439.45	6.315	20.88	2571.777
2022-07-01 09:59:17	UAB 'Transigva'	KOA851	4.607	6.95	-485.03	2.496	20.12	2576.391
2022-07-01 10:10:38	Utenos vandeny	HOL026	4.725	7.07	-470.27	0.691	19.78	2581.124
2022-07-01 10:36:18	Gretos Mikulienės individuali veikia	LTJ315	3.808	7.77	-476.56	10.428	17.37	2584.943
2022-07-01 10:49:30	UAB 'Utenos komunalininkas'	FRS165	1.185	7.08	-464.63	4.886	18.11	2586.147
2022-07-01 11:33:50	UAB 'Transigva'	KOA851	7.544	7.37	-490.89	1.704	18.84	2593.702
2022-07-01 11:53:03	UAB 'Utenos komunalininkas'	FRS165	2.362	7.40	-477.86	2.427	16.25	2596.091
2022-07-01 12:30:21	Gretos Mikulienės individuali veikia	LTJ315	9.783	7.65	-475.69	4.713	17.77	2605.881
2022-07-01 16:03:50	Gretos Mikulienės individuali veikia	LTJ315	6.883	8.18	-495.23	2.807	19.52	2612.776
2022-07-01 18:10:05	Gretos Mikulienės individuali veikia	LTJ315	5.561	7.65	-445.10	2.850	16.58	2618.349
2022-07-01 19:39:53	Gretos Mikulienės individuali veikia	LTJ315	9.400	8.21	-439.24	2.271	15.54	2627.764
2022-07-02 06:19:58	Kestucio Karnacko individuali veikia	8548LC	9.315	7.55	-524.96	1.902	22.39	2637.089
2022-07-02 06:31:00	UAB 'TOI Lietuva'	HGN073	1.030	8.69	-448.35	27.452	18.01	2638.140
2022-07-02 07:32:10	Kestucio Karnacko individuali veikia	8548LC	9.313	8.22	-513.24	2.127	21.00	2647.469
2022-07-02 08:48:14	Kestucio Karnacko individuali veikia	8548LC	9.063	7.36	-454.86	2.214	17.07	2656.544
Data : 2022-07-01 / 2022-07-03	Atvežimų kiekis : 15	Vežėjų kiekis : 6	Suma : 86.225	Vidurkis : 7.71	Vidurkis : -473.42	Vidurkis : 5.019	Vidurkis : 18.62	Maksimumas : 2656.544

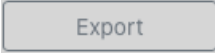
-  - The "push" of the selected time back through the set interval;
-  - Time interval start and end setting boxes;
-  - Current day, month or year, automatic date setting;
-  - Interval selection button. When pressed, the intervals change cyclically: <Day> / <Year> / <Month>. At the beginning, the interval is selected by pressing this button , then automatic date setting of the current day, month or year is pressed, and the forward  and backward buttons  can be used to "move" the selected time intervals.
-  - The "push" of the selected time forward through the set interval;


-  - Sort ascending or descending buttons;



-  - Filter call boxes on text values. After selecting the desired filter, it is necessary to press the **Refresh** button;

-  - Update button. At the beginning, the desired report rendering intervals and other options such as filters and etc. are set. and then the **Refresh** button is pressed;

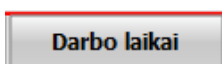
-  - Exporting the selected report to a Microsoft Excel program *.xlsx file;

-  - Printing of the selected report using the means provided by the browser or SCADA program;

Working with “Service Reports”

CALL FOR THE REPORTS

In the main window, press the button dedicated to "Service Reports" (*this button is displayed according to the general design structure of the SCADA system and the name and location of the button may differ*):

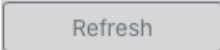

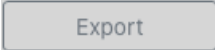



REPORTS CONTROL

A detailed window “Service Reports” :

The screenshot shows a window titled 'Technological maintenance' with a logo 'Utenos vandeny' in the top left. It contains a table with columns: Objekto grupė, Objekto pavadinimas, Technologinis aprašas, TA-1, h., TA-2, h., Viso, h., Dirba po TA, h., Paskutinis TA-1, Paskutinis TA-2, Prognose TA-1, and Prognose TA-2. The table is filtered by 'Group: Utenos valymo įrenginiai' and 'Object: Miesto nuotekų valymo įrenginiai'. The data is organized into three main groups: NS-01 Baranausko 9, NS-02 Dariaus ir Girėno, and NS-03 Taikos. Each group lists specific devices like 'Siurblys M1', 'Siurblys M2', 'Siurblys M3', and 'Smulkintuvas SM' with their respective hours and status.

Objekto grupė	Objekto pavadinimas	Technologinis aprašas	TA-1, h.	TA-2, h.	Viso, h.	Dirba po TA, h.	Paskutinis TA-1	Paskutinis TA-2	Prognose TA-1	Prognose TA-2
NS-01 Baranausko 9	Siurbliai	Siurblys M1	100000	20000	4327.25	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
		Siurblys M2	100000	20000	3593.87	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
		Smulkintuvas SM	100000	20000	591.30	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
NS-02 Dariaus ir Girėno	Siurbliai	Siurblys M1	100000	20000	2987.75	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
		Siurblys M2	100000	20000	2667.00	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
		Siurblys M3	100000	20000	2186.83	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
	Smulkintuvas	Smulkintuvas SM	100000	20000	635.72	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
NS-03 Taikos	Siurbliai	Siurblys M1	100000	30000	25499.07	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
		Siurblys M2	100000	20000	8995.13	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
		Siurblys M3	100000	20000	3931.35	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]
	Smulkintuvas	Smulkintuvas SM	100000	20000	7871.57	0	[h.=0] [Total:0]	[h.=0] [Total:0]	[NA]	[NA]

-  - Update button. After changing the report to the **Object** box , you need to press the **Refresh** button to load the report;
-  - Exporting the selected report to a Microsoft Excel program *.xlsx file;
-  - Printing of the selected report using the means provided by the browser or SCADA program;

Description of the columns visible in the table :

- **Objekto grupė** - Device group name, e.g. sewage pumping station, treatment plant, etc.;
- **Objekto pavadinimas** - Device name, e.g. pumps, blowers, etc.;
- **Technologinis aprašas** - Technological number of the device, e.g. M1, OR2, etc.;

- **TS-1, h** - Setting the working hours of the 1st technological maintenance (lower priority). After the device has worked for the set number of hours, the background

TA-1, h.
100

color of the hours is red, see e.g. ;

- **TS-2, h** - Setting the working hours of the 2nd technological maintenance (higher priority). After the device has worked for the set number of hours, the background

TA-2, h.
300000

color of the hours is red, see e.g. . After completing TS-2 and confirming completion, TS-1 is automatically dropped as TS-2 is given higher priority.

- **Viso, h** - The total number of working hours of the device;
- **Dirba po TS, h** - The number of working hours of the device since the last TS-1 or TS-2;
- **Paskutinis TS-1, h** - The last TS-1 performed by the device, as well as the number of hours at which TS-1 was performed and how many TS-1 were performed in total can be seen in the field

2023-02-14 [h.=388.60]
[Viso:1]

 ;
- **Paskutinis TS-2, h** - The last TS-2 performed by the device, as well as the number

of hours at which TS-2 was performed and the total amount of TS-2 performed in the field is visible

2023-02-14 [h.=388.60]
[Viso:1]

 ;

- **Prognozė TS-1** - When a TS-1 is performed and the unit operates more than > 0 hours, emissions are predicted for the next expected TS-1 dates;

- **Prognozē TS-2** - When a TS-2 is performed and the unit operates more than > 0 hours, the next predicted TS-2 dates are projected;

Detailed device settings and control window :

This window is called up by clicking on the button of the technological description



of the desired device

Description of functions and buttons visible in the window :

- **Setting maintenance hours** - Enter the number of hours **TS-1** or **TS-2**, depending on the dialog selected, after which a maintenance alert will be issued (red background color, see description above). After entering, press the **Save TS-1** button to save the change.
- **Confirmation of maintenance performance**- Select the date on which you want to record the date of **TS** maintenance. Before clicking the **Confirm TS** button, a description of the performed maintenance is entered (what was performed and what changes were made). After clicking **Confirm TS**, the general report window is automatically opened.
- **Performed maintenances** - To view the performed maintenances, you need to select the date of the desired maintenance from the Performed maintenances list and press the **Show TS** button (see photo below);
- **Delete TS** - In order to delete the maintenance maintenance, you need to select the date of the desired maintenance from the list **List of maintenance**, press **Show TS** and then press the **Delete TS** button (see photo above);
- **Save TS-1/2** - In order to edit an already performed maintenance, you need to select the date of the desired maintenance from the **List of maintenance** and click

Show TS. Edit the text in the Description of **List of maintenance** field and press the **Save TS-1** or **Save TS-2** button after editing the text;

- **Hours of completed maintenance** - When a maintenance that has already been completed is selected for review, the number of hours worked, which was recorded at the time of **TS** approval, is displayed in this place (see photo below).



Confirmed maintenances hours: 0.0 val.