

Ведомость учета среднечасового отпуска тепловой энергии в системе отопления
за период с 23.11.20 г. по 22.12.20 г.

: 14 1-2

14 1-2 ,

: -9.2.1

: 00003201

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1.3

T = 5,00 °C

= G max= 51,00 3/ G min= 0,00 3/ = 10 /
 = G max= 51,00 3/ G min= 0,00 3/ = 10 /
 = G max= 53,00 3/ G min= 0,00 3/ = 10 /

	, Q ,	, Q ,	, M, , V, 3								, °C,										
							+dM	-dM	dV	/		t1	t2	dt=t1-t2	t3()	P1	P2	P3()	T		T /
			M1	V1	M2	V2				M3()	V3()										
23.11.20	1.64	0.00	119.46	121.62	115.74	117.11	3.71		4.51	0.00	0.00	62.49	50.21	12.28	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
24.11.20	1.65	0.00	117.63	119.76	113.64	114.97	3.99		4.79	0.00	0.00	62.47	50.05	12.42	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
25.11.20	1.62	0.00	117.65	119.78	114.48	115.82	3.17		3.96	0.00	0.00	62.52	50.02	12.50	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
26.11.20	1.68	0.00	116.66	118.82	113.43	114.77	3.22		4.05	0.00	0.00	63.23	50.15	13.08	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
27.11.20	1.93	0.00	115.95	118.46	113.08	114.59	2.87		3.87	0.00	0.00	68.71	53.30	15.41	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
28.11.20	2.05	0.00	115.77	118.41	112.54	114.11	3.22		4.30	0.00	0.00	70.62	54.34	16.28	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
29.11.20	2.11	0.00	115.96	118.63	112.32	113.89	3.64		4.74	0.00	0.00	71.04	54.48	16.56	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
30.11.20	1.95	0.00	115.51	118.01	112.21	113.70	3.30		4.31	0.00	0.00	68.52	53.03	15.49	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
01.12.20	1.69	0.00	116.63	118.77	113.55	114.86	3.08		3.91	0.00	0.00	62.96	49.69	13.27	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
02.12.20	1.70	0.00	115.85	117.98	112.54	113.84	3.30		4.14	0.00	0.00	63.03	49.68	13.35	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
03.12.20	1.77	0.00	116.93	119.14	113.31	114.65	3.62		4.49	0.00	0.00	63.87	50.19	13.68	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
04.12.20	1.82	0.00	113.79	116.04	110.13	111.47	3.66		4.57	0.00	0.00	65.40	50.92	14.48	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
05.12.20	1.86	0.00	115.41	117.74	111.91	113.30	3.50		4.44	0.00	0.00	66.05	51.41	14.64	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
06.12.20	1.78	0.00	115.58	117.75	111.23	112.53	4.35		5.22	0.00	0.00	63.64	49.99	13.65	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
07.12.20	1.71	0.00	117.89	120.04	114.23	115.55	3.66		4.49	0.00	0.00	62.74	49.69	13.05	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
08.12.20	1.71	0.00	119.37	121.57	115.64	117.00	3.73		4.57	0.00	0.00	63.02	50.20	12.82	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
09.12.20	1.92	0.00	118.89	121.34	115.32	116.80	3.57		4.54	0.00	0.00	66.92	52.26	14.66	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
10.12.20	1.97	0.00	115.48	118.03	112.48	114.01	2.99		4.02	0.00	0.00	69.41	53.66	15.75	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
11.12.20	1.76	0.00	114.12	116.32	111.22	112.54	2.90		3.78	0.00	0.00	64.54	50.31	14.23	65.00	0.54	0.33	0.46	24.00	0.00	E,I,K
12.12.20	1.90	0.00	117.11	119.52	113.75	115.20	3.36		4.32	0.00	0.00	66.82	52.01	14.81	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
13.12.20	1.83	0.00	119.42	121.71	115.07	116.46	4.35		5.25	0.00	0.00	64.32	50.74	13.58	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
14.12.20	1.70	0.00	115.82	117.96	112.28	113.58	3.54		4.38	0.00	0.00	63.06	49.77	13.29	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
15.12.20	1.71	0.00	117.89	120.05	113.90	115.23	3.98		4.82	0.00	0.00	62.87	49.91	12.96	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
16.12.20	1.90	0.00	117.33	119.76	113.81	115.27	3.52		4.49	0.00	0.00	66.93	52.18	14.75	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
17.12.20	1.98	0.00	117.40	120.02	113.98	115.56	3.42		4.46	0.00	0.00	69.61	54.19	15.42	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
18.12.20	1.67	0.00	118.08	120.25	114.63	115.98	3.45		4.27	0.00	0.00	62.94	50.13	12.81	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
19.12.20	1.69	0.00	120.79	123.02	117.05	118.45	3.74		4.57	0.00	0.00	63.07	50.51	12.56	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
20.12.20	1.70	0.00	120.04	122.27	116.08	117.47	3.97		4.80	0.00	0.00	63.25	50.62	12.63	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
21.12.20	1.66	0.00	119.61	121.82	116.25	117.64	3.36		4.18	0.00	0.00	63.11	50.53	12.58	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
22.12.20	1.74	0.00	116.86	119.07	113.24	114.59	3.62		4.48	0.00	0.00	63.88	50.41	13.47	65.00	0.54	0.34	0.46	24.00	0.00	E,I,K
	53.79	0.00	3514.86	3583.67	3409.08	3450.95	105.79	0.00	132.72	0.00	0.00								720.00	0.00	

$$T = \quad + \max + T_{min} + T_{dt} + T$$

$$720.00 = 720.00 + 0.00 + 0.00 + 0.00 + 0.00$$

	24-00	24-00	
	221.89	275.68	53.79
	0.05	0.05	0.00
	14798.63	18313.49	3514.86
	13959.94	17369.02	3409.08
()	0.90	0.90	0.00
	6141.03	6861.03	720.00
max + T _{min} + T _{dt} + T	39.07	39.07	0.00

Ведомость учета среднечасового отпуска тепловой энергии в системе отопления
за период с 23.11.20 г. по 22.12.20 г.

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14 1-2 ,

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: 00003201

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1.1

T = 5,00 °C

= G max= 51,00 3/ G min= 0,00 3/ = 10 /
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	, Q ,	, Q ,	, M, , V, 3									, °C,							T	T /
							+dM	-dM	dV	/		t1	t2	dt=t1-t2	t3()	P1	P2	P3()		
			M1	V1	M2	V2				M3()	V3()									
23.11.20	0.40	---	25.00	25.44	22.00	22.27	3.00		3.17	---	---	61.72	51.33	10.39	---	0.37	0.34	---	24.00	0.00
24.11.20	0.41	---	24.91	25.35	21.59	21.86	3.31		3.49	---	---	61.69	51.23	10.46	---	0.36	0.34	---	24.00	0.00
25.11.20	0.37	---	24.38	24.81	21.95	22.22	2.43		2.59	---	---	61.74	51.23	10.51	---	0.36	0.34	---	24.00	0.00
26.11.20	0.38	---	24.14	24.58	21.67	21.94	2.47		2.64	---	---	62.44	51.44	11.00	---	0.37	0.34	---	24.00	0.00
27.11.20	0.41	---	23.75	24.25	21.56	21.87	2.18		2.38	---	---	67.79	54.98	12.81	---	0.37	0.34	---	24.00	0.00
28.11.20	0.45	---	23.95	24.48	21.38	21.70	2.56		2.78	---	---	69.62	56.18	13.44	---	0.37	0.34	---	24.00	0.00
29.11.20	0.48	---	24.26	24.81	21.32	21.64	2.94		3.17	---	---	70.01	56.37	13.64	---	0.36	0.34	---	24.00	0.00
30.11.20	0.43	---	24.00	24.51	21.49	21.79	2.52		2.72	---	---	67.49	54.87	12.62	---	0.36	0.34	---	24.00	0.00
01.12.20	0.37	---	24.04	24.47	21.79	22.06	2.25		2.41	---	---	62.13	51.20	10.93	---	0.37	0.34	---	24.00	0.00
02.12.20	0.38	---	23.99	24.42	21.57	21.83	2.42		2.59	---	---	62.20	51.13	11.07	---	0.37	0.34	---	24.00	0.00
03.12.20	0.41	---	24.39	24.84	21.53	21.80	2.86		3.04	---	---	63.03	51.74	11.29	---	0.37	0.34	---	24.00	0.00
04.12.20	0.42	---	23.70	24.16	20.85	21.12	2.85		3.04	---	---	64.46	52.52	11.94	---	0.37	0.35	---	24.00	0.00
05.12.20	0.42	---	24.09	24.56	21.32	21.60	2.77		2.96	---	---	65.10	53.04	12.06	---	0.37	0.35	---	24.00	0.00
06.12.20	0.45	---	24.61	25.06	20.95	21.21	3.66		3.85	---	---	62.78	51.54	11.24	---	0.37	0.35	---	24.00	0.00
07.12.20	0.41	---	24.70	25.14	21.72	21.99	2.97		3.15	---	---	61.94	51.05	10.89	---	0.37	0.34	---	24.00	0.00
08.12.20	0.41	---	25.06	25.51	21.98	22.25	3.08		3.26	---	---	62.24	51.51	10.73	---	0.37	0.34	---	24.00	0.00
09.12.20	0.45	---	24.83	25.33	21.90	22.20	2.93		3.13	---	---	66.11	53.85	12.26	---	0.37	0.34	---	24.00	0.00
10.12.20	0.42	---	23.82	24.33	21.55	21.86	2.27		2.47	---	---	68.36	55.46	12.90	---	0.37	0.34	---	24.00	0.00
11.12.20	0.38	---	23.48	23.92	21.26	21.53	2.22		2.39	---	---	63.67	51.89	11.78	---	0.36	0.34	---	24.00	0.00
12.12.20	0.43	---	24.42	24.91	21.75	22.04	2.67		2.87	---	---	65.83	53.67	12.16	---	0.37	0.34	---	24.00	0.00
13.12.20	0.46	---	25.51	25.99	21.90	22.18	3.61		3.81	---	---	63.44	52.30	11.14	---	0.37	0.34	---	24.00	0.00
14.12.20	0.40	---	24.26	24.70	21.57	21.83	2.70		2.87	---	---	62.24	51.08	11.16	---	0.37	0.34	---	24.00	0.00
15.12.20	0.42	---	24.94	25.39	21.79	22.06	3.15		3.33	---	---	62.07	51.17	10.90	---	0.37	0.34	---	24.00	0.00
16.12.20	0.44	---	24.60	25.10	21.90	22.20	2.70		2.90	---	---	66.17	53.70	12.47	---	0.37	0.34	---	24.00	0.00
17.12.20	0.44	---	24.61	25.14	22.02	22.34	2.59		2.80	---	---	68.51	55.90	12.61	---	0.37	0.34	---	24.00	0.00
18.12.20	0.39	---	24.77	25.22	22.15	22.42	2.63		2.80	---	---	62.14	51.40	10.74	---	0.37	0.34	---	24.00	0.00
19.12.20	0.41	---	25.53	25.99	22.55	22.83	2.98		3.16	---	---	62.28	51.71	10.57	---	0.37	0.34	---	24.00	0.00
20.12.20	0.42	---	25.46	25.92	22.22	22.50	3.24		3.42	---	---	62.47	51.99	10.48	---	0.37	0.34	---	24.00	0.00
21.12.20	0.39	---	25.00	25.45	22.42	22.70	2.58		2.75	---	---	62.33	51.75	10.58	---	0.37	0.34	---	24.00	0.00
22.12.20	0.40	---	24.51	24.96	21.74	22.02	2.76		2.94	---	---	63.09	51.93	11.16	---	0.37	0.34	---	24.00	0.00
	12.44	---	734.66	748.74	651.37	659.86	83.29	0.00	88.88	---	---								720.00	0.00

$$T = \quad + \max + T_{min} + T_{dt} + T$$

$$720.00 = 720.00 + 0.00 + 0.00 + 0.00 + 0.00$$

	24-00	24-00	
,	89.76	102.20	12.44
,	---	---	---
,	5418.09	6152.76	734.66
,	4642.24	5293.61	651.37
() ,	---	---	---
,	6100.48	6820.48	720.00
max + T _{min} + T _{dt} + T ,	79.45	79.45	0.00
