

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

: 14 3-4

14 3-4 ,

: -9.2.1
: 00003106

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1.1

T = 5,00 °C

= G max= 45,00 3/ G min= 0,00 3/ = 10 /
 = G max= 45,00 3/ G min= 0,00 3/ = 10 /
 = G max= 45,00 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	1.52	---	139.84	142.38	137.41	139.20	2.43		3.18	---	---	62.62	52.55	10.07	---	0.40	0.35	---	24.00	0.00
24.11.20	1.56	---	138.42	140.95	135.69	137.44	2.73		3.51	---	---	62.61	52.28	10.33	---	0.40	0.35	---	24.00	0.00
25.11.20	1.57	---	139.94	142.50	137.19	138.96	2.75		3.54	---	---	62.66	52.39	10.27	---	0.40	0.35	---	24.00	0.00
26.11.20	1.58	---	138.92	141.52	136.86	138.65	2.06		2.87	---	---	63.38	52.71	10.67	---	0.40	0.35	---	24.00	0.00
27.11.20	1.85	---	138.56	141.59	136.48	138.52	2.08		3.07	---	---	68.92	56.32	12.60	---	0.40	0.35	---	24.00	0.00
28.11.20	1.96	---	138.13	141.31	135.66	137.78	2.47		3.53	---	---	70.86	57.65	13.21	---	0.40	0.35	---	24.00	0.00
29.11.20	2.02	---	138.37	141.59	135.64	137.76	2.73		3.83	---	---	71.28	57.75	13.53	---	0.39	0.35	---	24.00	0.00
30.11.20	1.85	---	138.04	141.05	135.86	137.88	2.18		3.17	---	---	68.74	56.16	12.58	---	0.39	0.35	---	24.00	0.00
01.12.20	1.62	---	139.72	142.31	137.66	139.43	2.06		2.88	---	---	63.13	52.23	10.90	---	0.40	0.35	---	24.00	0.00
02.12.20	1.63	---	138.28	140.85	135.87	137.61	2.41		3.24	---	---	63.20	52.23	10.97	---	0.39	0.35	---	24.00	0.00
03.12.20	1.71	---	139.55	142.21	136.44	138.24	3.11		3.97	---	---	64.05	52.85	11.20	---	0.40	0.35	---	24.00	0.00
04.12.20	1.73	---	135.68	138.39	133.53	135.34	2.15		3.05	---	---	65.61	53.68	11.93	---	0.40	0.36	---	24.00	0.00
05.12.20	1.80	---	138.08	140.89	135.81	137.68	2.27		3.21	---	---	66.28	54.06	12.22	---	0.40	0.36	---	24.00	0.00
06.12.20	1.69	---	137.80	140.41	135.00	136.75	2.80		3.66	---	---	63.83	52.53	11.30	---	0.40	0.36	---	24.00	0.00
07.12.20	1.63	---	140.99	143.59	138.72	140.49	2.27		3.10	---	---	62.91	52.13	10.78	---	0.40	0.35	---	24.00	0.00
08.12.20	1.66	---	142.95	145.61	140.08	141.90	2.87		3.71	---	---	63.18	52.54	10.64	---	0.40	0.35	---	24.00	0.00
09.12.20	1.84	---	142.56	145.53	140.21	142.21	2.35		3.32	---	---	67.11	55.05	12.06	---	0.40	0.35	---	24.00	0.00
10.12.20	1.95	---	139.11	142.21	136.50	138.56	2.61		3.65	---	---	69.65	56.64	13.01	---	0.39	0.35	---	24.00	0.00
11.12.20	1.71	---	137.60	140.27	135.41	137.22	2.18		3.05	---	---	64.74	53.09	11.65	---	0.39	0.35	---	24.00	0.00
12.12.20	1.83	---	140.79	143.71	138.48	140.45	2.30		3.26	---	---	67.05	54.88	12.17	---	0.40	0.35	---	24.00	0.00
13.12.20	1.78	---	143.01	145.77	139.47	141.34	3.54		4.43	---	---	64.50	53.23	11.27	---	0.40	0.35	---	24.00	0.00
14.12.20	1.64	---	139.35	141.95	136.86	138.62	2.49		3.33	---	---	63.24	52.32	10.92	---	0.40	0.35	---	24.00	0.00
15.12.20	1.66	---	141.68	144.30	138.48	140.27	3.21		4.03	---	---	63.03	52.42	10.61	---	0.40	0.35	---	24.00	0.00
16.12.20	1.83	---	141.34	144.29	139.17	141.15	2.17		3.14	---	---	67.13	54.99	12.14	---	0.40	0.35	---	24.00	0.00
17.12.20	1.94	---	141.79	144.98	139.25	141.39	2.54		3.59	---	---	69.85	57.09	12.76	---	0.40	0.35	---	24.00	0.00
18.12.20	1.63	---	142.73	145.38	140.21	142.03	2.52		3.35	---	---	63.11	52.56	10.55	---	0.40	0.35	---	24.00	0.00
19.12.20	1.62	---	145.48	148.19	143.11	144.99	2.37		3.20	---	---	63.22	52.91	10.31	---	0.40	0.35	---	24.00	0.00
20.12.20	1.65	---	144.40	147.10	141.08	142.95	3.32		4.15	---	---	63.40	53.10	10.30	---	0.40	0.35	---	24.00	0.00
21.12.20	1.61	---	144.43	147.12	141.85	143.73	2.58		3.39	---	---	63.26	53.01	10.25	---	0.40	0.35	---	24.00	0.00
22.12.20	1.66	---	140.50	143.18	138.22	140.05	2.28		3.13	---	---	64.05	53.03	11.02	---	0.40	0.35	---	24.00	0.00
	51.73	---	4208.05	4291.16	4132.21	4188.62	75.84	0.00	102.54	---	---								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	
,	275.79	327.52	51.73
,	---	---	---
,	24238.73	28446.78	4208.05
,	23443.70	27575.90	4132.21
() ,	---	---	---
,	7357.42	8077.42	720.00
max + T _{min} + T _{dt} + T ,	955.13	955.13	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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: -9.2.1
: 00003106

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T = 5,00 °C

= G max= 32,00 3/ G min= 0,00 3/ = 10 /
= G max= 33,00 3/ G min= 0,00 3/ = 10 /
= G max= 0,00 3/ G min= 0,00 3/ = 10 /

	, 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	0.35	---	38.13	38.83	35.50	36.04	2.63		2.79	---	---	62.62	56.99	5.63	---	0.35	0.35	---	24.00	0.00
24.11.20	0.37	---	38.28	38.98	35.29	35.83	2.99		3.15	---	---	62.60	56.94	5.66	---	0.35	0.35	---	24.00	0.00
25.11.20	0.37	---	39.34	40.06	36.40	36.96	2.94		3.10	---	---	62.66	57.15	5.51	---	0.35	0.35	---	24.00	0.00
26.11.20	0.35	---	39.22	39.95	36.89	37.46	2.33		2.49	---	---	63.38	57.58	5.80	---	0.35	0.35	---	24.00	0.00
27.11.20	0.40	---	39.43	40.29	36.95	37.62	2.48		2.67	---	---	68.89	62.24	6.65	---	0.35	0.35	---	24.00	0.00
28.11.20	0.43	---	39.29	40.19	36.61	37.31	2.67		2.88	---	---	70.81	63.89	6.92	---	0.35	0.35	---	24.00	0.00
29.11.20	0.43	---	39.40	40.32	36.84	37.55	2.56		2.77	---	---	71.24	64.22	7.02	---	0.35	0.35	---	24.00	0.00
30.11.20	0.39	---	39.30	40.16	37.08	37.75	2.22		2.41	---	---	68.71	62.13	6.58	---	0.35	0.35	---	24.00	0.00
01.12.20	0.34	---	39.85	40.59	37.62	38.20	2.23		2.39	---	---	63.12	57.48	5.64	---	0.35	0.35	---	24.00	0.00
02.12.20	0.37	---	39.40	40.13	36.69	37.26	2.71		2.87	---	---	63.19	57.47	5.72	---	0.35	0.35	---	24.00	0.00
03.12.20	0.42	---	40.10	40.87	36.59	37.17	3.51		3.70	---	---	64.03	58.18	5.85	---	0.35	0.35	---	24.00	0.00
04.12.20	0.38	---	38.66	39.43	36.07	36.67	2.58		2.76	---	---	65.58	59.35	6.23	---	0.36	0.35	---	24.00	0.00
05.12.20	0.40	---	39.36	40.16	36.65	37.27	2.71		2.89	---	---	66.24	59.94	6.30	---	0.36	0.36	---	24.00	0.00
06.12.20	0.39	---	39.42	40.17	36.29	36.86	3.14		3.31	---	---	63.80	58.05	5.75	---	0.36	0.36	---	24.00	0.00
07.12.20	0.37	---	40.29	41.03	37.58	38.16	2.71		2.87	---	---	62.89	57.30	5.59	---	0.35	0.35	---	24.00	0.00
08.12.20	0.40	---	41.06	41.82	37.76	38.35	3.29		3.47	---	---	63.18	57.63	5.55	---	0.35	0.35	---	24.00	0.00
09.12.20	0.42	---	40.99	41.84	38.12	38.78	2.86		3.06	---	---	67.09	60.76	6.33	---	0.35	0.35	---	24.00	0.00
10.12.20	0.44	---	39.95	40.84	36.89	37.57	3.06		3.27	---	---	69.61	63.00	6.61	---	0.35	0.35	---	24.00	0.00
11.12.20	0.37	---	39.46	40.23	36.88	37.48	2.58		2.75	---	---	64.72	58.73	5.99	---	0.35	0.35	---	24.00	0.00
12.12.20	0.41	---	40.51	41.35	37.76	38.41	2.75		2.94	---	---	67.01	60.79	6.22	---	0.35	0.35	---	24.00	0.00
13.12.20	0.44	---	41.24	42.04	37.41	38.01	3.84		4.03	---	---	64.48	58.73	5.75	---	0.35	0.35	---	24.00	0.00
14.12.20	0.36	---	40.13	40.88	37.51	38.09	2.63		2.79	---	---	63.23	57.58	5.65	---	0.35	0.35	---	24.00	0.00
15.12.20	0.40	---	41.04	41.80	37.64	38.23	3.40		3.57	---	---	63.02	57.61	5.41	---	0.35	0.35	---	24.00	0.00
16.12.20	0.40	---	41.04	41.90	38.46	39.13	2.58		2.77	---	---	67.12	60.77	6.35	---	0.35	0.35	---	24.00	0.00
17.12.20	0.44	---	41.35	42.28	38.44	39.16	2.91		3.12	---	---	69.79	63.38	6.41	---	0.35	0.35	---	24.00	0.00
18.12.20	0.38	---	41.54	42.31	38.65	39.25	2.89		3.06	---	---	63.10	57.68	5.42	---	0.35	0.35	---	24.00	0.00
19.12.20	0.37	---	42.21	43.00	39.53	40.15	2.68		2.85	---	---	63.22	57.89	5.33	---	0.35	0.35	---	24.00	0.00
20.12.20	0.40	---	41.90	42.69	38.65	39.26	3.26		3.43	---	---	63.40	58.10	5.30	---	0.35	0.35	---	24.00	0.00
21.12.20	0.38	---	41.91	42.69	38.96	39.57	2.95		3.12	---	---	63.26	57.96	5.30	---	0.35	0.35	---	24.00	0.00
22.12.20	0.38	---	40.62	41.40	37.91	38.51	2.72		2.89	---	---	64.04	58.35	5.69	---	0.35	0.35	---	24.00	0.00
	11.75	---	1204.42	1228.23	1119.62	1138.06	84.80	0.00	90.17	---	---								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	
,	101.65	113.40	11.75
,	---	---	---
,	9670.41	10874.82	1204.42
,	8951.52	10071.14	1119.62
() ,	---	---	---
,	6849.15	7569.15	720.00
max + T _{min} + T _{dt} + T ,	1463.40	1463.40	0.00
