

Общие параметры

Активная база данных: 1 Потребитель: Андреева 22
Поставщик:

| Дата | БД | НС |
|-------------|-----|-----|
| 23.01.21 | 1 | |
| 24.01.21 | 1 | |
| 25.01.21 | 1 | |
| 26.01.21 | 1 | |
| 27.01.21 | 1 | |
| 28.01.21 | 1 | |
| 29.01.21 | 1 | |
| 30.01.21 | 1 | |
| 31.01.21 | 1 | |
| 01.02.21 | 1 | |
| 02.02.21 | 1 | |
| 03.02.21 | 1 | |
| 04.02.21 | 1 | |
| 05.02.21 | 1 | |
| 06.02.21 | 1 | |
| 07.02.21 | 1 | |
| 08.02.21 | 1 | |
| 09.02.21 | 1 | |
| 10.02.21 | 1 | |
| 11.02.21 | 1 | |
| 12.02.21 | 1 | |
| 13.02.21 | 1 | |
| 14.02.21 | 1 | |
| 15.02.21 | 1 | |
| 16.02.21 | 1 | |
| 17.02.21 | 1 | |
| 18.02.21 | 1 | |
| 19.02.21 | 1 | |
| 20.02.21 | 1 | |
| 21.02.21 | 1 | |
| 22.02.21 | 1 | |
| Среднее | --- | --- |
| Итого | --- | --- |
| На 23.01.21 | --- | --- |
| На 22.02.21 | --- | --- |

Ответственный за учет _____

Отчет принят " __ " _____ 20__ г. _____ / _____ /

Тепловой ввод 1. Схема 3

Активная база данных: 1 Потребитель: Андреева 22
Поставщик:

| Дата | Схема | Qo, Гкал | Qr, Гкал | M1, т | M2, т | M3, т | Mr, т | V1, м3 | V2, м3 | V3, м3 | dV, м3 | t1, °C | t2, °C | t3, °C | dt, °C | P1, кгс/см2 | P2, кгс/см2 | ВНФ, ч | ВОС, ч | HC Qo | HC Qr | HC M1 | HC M2 | HC M3 | HC Mr | HC V1 | HC V2 | HC V3 | HC t1 | HC t2 | HC t3 | HC dt | HC P1 | HC P2 | |
|-------------|-------|-------------|-------------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|----------------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| 23.01.21 | 3 | 3,684 | 0,000 | 71,880 | 63,360 | 0,000 | 8,520 | 74,940 | 64,260 | 0,000 | 10,680 | 99,71 | 54,40 | 54,39 | 45,31 | 6,850 | 5,800 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24.01.21 | 3 | 3,890 | 0,000 | 72,300 | 60,890 | 0,000 | 11,410 | 75,420 | 61,730 | 0,000 | 13,690 | 100,69 | 54,85 | 54,77 | 45,84 | 6,820 | 5,750 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25.01.21 | 3 | 4,424 | 0,000 | 72,300 | 62,500 | 0,000 | 9,800 | 76,140 | 63,480 | 0,000 | 12,660 | 111,99 | 58,15 | 58,15 | 53,84 | 6,890 | 5,820 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26.01.21 | 3 | 4,915 | 0,000 | 74,470 | 67,650 | 0,000 | 6,820 | 79,180 | 68,930 | 0,000 | 10,250 | 124,06 | 63,82 | 63,81 | 60,24 | 6,990 | 5,840 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27.01.21 | 3 | 4,557 | 0,000 | 72,670 | 64,870 | 0,000 | 7,800 | 76,910 | 66,000 | 0,000 | 10,910 | 117,83 | 61,34 | 61,18 | 56,49 | 6,890 | 5,800 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28.01.21 | 3 | 3,890 | 0,000 | 70,190 | 62,300 | 0,000 | 7,890 | 73,530 | 63,220 | 0,000 | 10,310 | 105,31 | 55,73 | 55,72 | 49,58 | 6,790 | 5,790 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29.01.21 | 3 | 3,902 | 0,000 | 70,930 | 64,040 | 0,000 | 6,890 | 74,380 | 65,000 | 0,000 | 9,380 | 106,64 | 56,80 | 56,78 | 49,84 | 6,840 | 5,800 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30.01.21 | 3 | 4,136 | 0,000 | 71,480 | 63,020 | 0,000 | 8,460 | 75,090 | 63,970 | 0,000 | 11,120 | 108,34 | 56,79 | 56,79 | 51,55 | 6,850 | 5,810 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31.01.21 | 3 | 5,073 | 0,000 | 71,860 | 62,910 | 0,000 | 8,950 | 76,560 | 64,050 | 0,000 | 12,510 | 125,76 | 62,78 | 62,74 | 62,98 | 6,890 | 5,820 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 01.02.21 | 3 | 4,686 | 0,000 | 73,320 | 64,690 | 0,000 | 8,630 | 77,610 | 65,790 | 0,000 | 11,820 | 118,27 | 61,22 | 61,17 | 57,05 | 6,920 | 5,800 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02.02.21 | 3 | 4,340 | 0,000 | 73,640 | 63,570 | 0,000 | 10,070 | 77,390 | 64,580 | 0,000 | 12,810 | 109,28 | 57,75 | 57,68 | 51,53 | 6,910 | 5,790 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03.02.21 | 3 | 3,538 | 0,000 | 74,480 | 66,390 | 0,000 | 8,090 | 77,480 | 67,330 | 0,000 | 10,150 | 96,38 | 54,28 | 54,12 | 42,10 | 6,930 | 5,780 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04.02.21 | 3 | 3,027 | 0,000 | 73,710 | 65,720 | 0,000 | 7,990 | 76,100 | 66,440 | 0,000 | 9,660 | 85,97 | 49,81 | 49,80 | 36,16 | 6,860 | 5,740 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05.02.21 | 3 | 3,437 | 0,000 | 73,790 | 63,760 | 0,000 | 10,030 | 76,520 | 64,580 | 0,000 | 11,940 | 92,24 | 52,13 | 52,06 | 40,11 | 6,890 | 5,770 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06.02.21 | 3 | 3,318 | 0,000 | 71,990 | 61,170 | 0,000 | 10,820 | 74,530 | 61,910 | 0,000 | 12,620 | 90,04 | 50,92 | 50,82 | 39,12 | 6,830 | 5,780 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07.02.21 | 3 | 2,796 | 0,000 | 72,470 | 61,820 | 0,000 | 10,650 | 74,610 | 62,510 | 0,000 | 12,100 | 80,83 | 48,65 | 48,33 | 32,18 | 6,840 | 5,770 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08.02.21 | 3 | 2,260 | 0,000 | 70,820 | 62,110 | 0,000 | 8,710 | 72,500 | 62,650 | 0,000 | 9,850 | 71,28 | 44,23 | 44,20 | 27,05 | 6,840 | 5,820 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09.02.21 | 3 | 2,470 | 0,038 | 71,520 | 61,200 | 0,930 | 10,320 | 73,460 | 61,920 | 0,940 | 11,540 | 77,14 | 48,92 | 45,69 | 28,22 | 6,800 | 5,780 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.02.21 | 3 | 3,581 | 0,000 | 72,060 | 63,600 | 0,000 | 8,460 | 75,100 | 64,500 | 0,000 | 10,600 | 98,26 | 54,47 | 54,47 | 43,79 | 6,850 | 5,800 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11.02.21 | 3 | 3,786 | 0,000 | 72,580 | 66,160 | 0,000 | 6,420 | 75,910 | 67,130 | 0,000 | 8,780 | 104,16 | 56,72 | 56,71 | 47,44 | 6,890 | 5,810 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12.02.21 | 3 | 3,841 | 0,000 | 73,950 | 68,700 | 0,000 | 5,250 | 77,480 | 69,820 | 0,000 | 7,660 | 106,00 | 57,93 | 57,89 | 48,07 | 6,910 | 5,790 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13.02.21 | 3 | 4,267 | 0,000 | 74,320 | 64,290 | 0,000 | 10,030 | 78,000 | 65,310 | 0,000 | 12,690 | 107,86 | 57,69 | 57,72 | 50,17 | 6,920 | 5,780 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14.02.21 | 3 | 3,822 | 0,000 | 74,160 | 65,930 | 0,000 | 8,230 | 77,470 | 66,950 | 0,000 | 10,520 | 101,73 | 55,94 | 55,89 | 45,79 | 6,870 | 5,740 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15.02.21 | 3 | 3,503 | 0,000 | 73,160 | 66,220 | 0,000 | 6,940 | 76,190 | 67,190 | 0,000 | 9,000 | 97,31 | 54,14 | 54,11 | 43,17 | 6,850 | 5,740 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16.02.21 | 3 | 2,758 | 0,000 | 73,410 | 66,080 | 0,000 | 7,330 | 75,710 | 66,880 | 0,000 | 8,830 | 82,64 | 49,48 | 49,27 | 33,16 | 6,870 | 5,760 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17.02.21 | 3 | 2,530 | 0,000 | 72,820 | 64,950 | 0,000 | 7,870 | 74,660 | 65,630 | 0,000 | 9,030 | 76,25 | 45,91 | 45,95 | 30,34 | 6,830 | 5,750 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18.02.21 | 3 | 3,300 | 0,000 | 72,100 | 64,480 | 0,000 | 7,620 | 74,800 | 65,340 | 0,000 | 9,460 | 92,84 | 52,11 | 52,14 | 40,73 | 6,830 | 5,770 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19.02.21 | 3 | 3,469 | 0,000 | 76,100 | 70,580 | 0,000 | 5,520 | 79,160 | 71,550 | 0,000 | 7,610 | 96,35 | 54,42 | 54,40 | 41,93 | 6,870 | 5,810 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20.02.21 | 3 | 3,563 | 0,000 | 77,160 | 72,130 | 0,000 | 5,030 | 80,310 | 73,100 | 0,000 | 7,210 | 97,28 | 54,41 | 54,40 | 42,87 | 6,850 | 5,810 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21.02.21 | 3 | 3,946 | 0,000 | 78,620 | 72,160 | 0,000 | 6,460 | 82,160 | 73,230 | 0,000 | 8,930 | 102,29 | 56,44 | 56,42 | 45,85 | 6,840 | 5,780 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22.02.21 | 3 | 3,945 | 0,000 | 79,740 | 72,630 | 0,000 | 7,110 | 83,260 | 73,790 | 0,000 | 9,470 | 101,57 | 56,82 | 56,80 | 44,75 | 6,880 | 5,790 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Среднее | 3 | 3,699 | 0,001 | 73,355 | 65,157 | 0,030 | 8,197 | 76,534 | 66,089 | 0,030 | 10,445 | 99,56 | 54,81 | 54,66 | 44,75 | 6,867 | 5,787 | 24,00 | 0,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Итого | 3 | 114,654 | 0,038 | 2274,000 | 2019,880 | 0,930 | 254,120 | 2372,560 | 2048,770 | 0,940 | 323,790 | 99,56 | 54,81 | 54,66 | 44,75 | 6,867 | 5,787 | 744,00 | 0,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| На 23.01.21 | 3 | 2575,595 | 104,281 | 71676,260 | 63114,620 | 1612,620 | 8561,640 | 73728,700 | 63904,240 | 1648,490 | 9824,460 | 102,45 | 55,71 | 55,68 | 46,74 | 6,820 | 5,760 | 29937,00 | 198,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| На 22.02.21 | 3 | 2690,249 | 104,319 | 73950,260 | 65134,500 | 1613,550 | 8815,760 | 76101,260 | 65953,010 | 1649,430 | 10148,250 | 101,57 | 56,82 | 56,80 | 44,75 | 6,880 | 5,790 | 30681,00 | 198,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Ответственный за учет _____

Отчет принят " ____ " _____ 20__ г. _____ / _____ / _____

Тепловой ввод 2. Схема 9

Активная база данных: 1 Потребитель: Андреева 22
Поставщик:

| Дата | Схема | V1, м3 | V2, м3 | dV, м3 | ВНР, ч | ВОС, ч | НС V1 | НС V2 |
|-------------|-------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| 23.01.21 | 9 | 7,390 | 12,940 | -5,550 | 24,00 | 0,00 | 0 | 0 |
| 24.01.21 | 9 | 10,080 | 15,420 | -5,340 | 24,00 | 0,00 | 0 | 0 |
| 25.01.21 | 9 | 8,590 | 13,860 | -5,270 | 24,00 | 0,00 | 0 | 0 |
| 26.01.21 | 9 | 5,680 | 10,300 | -4,620 | 24,00 | 0,00 | 0 | 0 |
| 27.01.21 | 9 | 6,600 | 12,060 | -5,460 | 24,00 | 0,00 | 0 | 0 |
| 28.01.21 | 9 | 6,670 | 12,840 | -6,170 | 24,00 | 0,00 | 0 | 0 |
| 29.01.21 | 9 | 5,830 | 11,820 | -5,990 | 24,00 | 0,00 | 0 | 0 |
| 30.01.21 | 9 | 7,360 | 13,510 | -6,150 | 24,00 | 0,00 | 0 | 0 |
| 31.01.21 | 9 | 7,690 | 13,500 | -5,810 | 24,00 | 0,00 | 0 | 0 |
| 01.02.21 | 9 | 7,400 | 12,480 | -5,080 | 24,00 | 0,00 | 0 | 0 |
| 02.02.21 | 9 | 8,790 | 13,400 | -4,610 | 24,00 | 0,00 | 0 | 0 |
| 03.02.21 | 9 | 6,980 | 11,530 | -4,550 | 24,00 | 0,00 | 0 | 0 |
| 04.02.21 | 9 | 7,000 | 9,410 | -2,410 | 24,00 | 0,00 | 0 | 0 |
| 05.02.21 | 9 | 8,860 | 10,500 | -1,640 | 24,00 | 0,00 | 0 | 0 |
| 06.02.21 | 9 | 9,560 | 11,860 | -2,300 | 24,00 | 0,00 | 0 | 0 |
| 07.02.21 | 9 | 9,470 | 11,000 | -1,530 | 24,00 | 0,00 | 0 | 0 |
| 08.02.21 | 9 | 7,880 | 10,130 | -2,250 | 24,00 | 0,00 | 0 | 0 |
| 09.02.21 | 9 | 9,350 | 10,580 | -1,230 | 24,00 | 0,00 | 0 | 0 |
| 10.02.21 | 9 | 8,630 | 11,630 | -3,000 | 24,00 | 0,00 | 0 | 0 |
| 11.02.21 | 9 | 6,940 | 14,700 | -7,760 | 24,00 | 0,00 | 0 | 0 |
| 12.02.21 | 9 | 5,770 | 10,020 | -4,250 | 24,00 | 0,00 | 0 | 0 |
| 13.02.21 | 9 | 10,260 | 15,860 | -5,600 | 24,00 | 0,00 | 0 | 0 |
| 14.02.21 | 9 | 8,540 | 12,770 | -4,230 | 24,00 | 0,00 | 0 | 0 |
| 15.02.21 | 9 | 7,320 | 11,570 | -4,250 | 24,00 | 0,00 | 0 | 0 |
| 16.02.21 | 9 | 7,740 | 11,900 | -4,160 | 24,00 | 0,00 | 0 | 0 |
| 17.02.21 | 9 | 8,160 | 8,640 | -0,480 | 24,00 | 0,00 | 0 | 0 |
| 18.02.21 | 9 | 7,940 | 10,170 | -2,230 | 24,00 | 0,00 | 0 | 0 |
| 19.02.21 | 9 | 6,000 | 13,060 | -7,060 | 24,00 | 0,00 | 0 | 0 |
| 20.02.21 | 9 | 5,170 | 10,980 | -5,810 | 24,00 | 0,00 | 0 | 0 |
| 21.02.21 | 9 | 6,360 | 14,520 | -8,160 | 24,00 | 0,00 | 0 | 0 |
| 22.02.21 | 9 | 6,780 | 15,750 | -8,970 | 24,00 | 0,00 | 0 | 0 |
| Среднее | 9 | 7,638 | 12,216 | -4,578 | 24,00 | 0,00 | --- | --- |
| Итого | 9 | 236,790 | 378,710 | -141,920 | 744,00 | 0,00 | --- | --- |
| На 23.01.21 | 9 | 9688,110 | 18179,680 | -8491,570 | 30135,00 | 0,00 | --- | --- |
| На 22.02.21 | 9 | 9924,900 | 18558,390 | -8633,490 | 30879,00 | 0,00 | --- | --- |

Ответственный за учет _____

Отчет принят " ____ " _____ 20__ г. _____ / _____ /

Принятые обозначения

Измеряемые параметры

Qo - тепловая энергия полная, Гкал (ГДж, MWh)

Qt - тепловая энергия в трубопроводе 3, соответствующая Mg, Гкал (ГДж, MWh)

Mi - масса воды в i-ом трубопроводе, т

Mg - масса воды, отобранной из системы (разность значений M1-M2), т

Gi - объемный расход в i-ом трубопроводе, м³/ч

ti - температура теплоносителя в i-ом трубопроводе, °C

dt - разность температур теплоносителя, °C

Pi - давление теплоносителя в i-ом трубопроводе, кгс/см² (МПа, bar)

tv - температура воздуха, °C

txv - температура холодной воды, °C

ВНР - время нормальной работы, ч

ВОС - время отсутствия счета, ч