

Общие параметры

Активная база данных: 1 Потребитель: Советская 15
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: Советская 15
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 | ВНР, 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 | 2,886 | 0,000 | 55,660 | 49,980 | 0,000 | 5,680 | 57,960 | 50,610 | 0,000 | 7,350 | 97,53 | 50,39 | 50,38 | 47,14 | 7,080 | 6,450 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 24.01.21 | 3 | 2,937 | 0,000 | 56,050 | 50,230 | 0,000 | 5,820 | 58,420 | 50,910 | 0,000 | 7,510 | 98,53 | 51,00 | 50,99 | 47,53 | 7,030 | 6,410 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 25.01.21 | 3 | 3,271 | 0,000 | 55,450 | 50,570 | 0,000 | 4,880 | 58,200 | 51,240 | 0,000 | 6,960 | 107,94 | 53,35 | 53,27 | 54,59 | 7,110 | 6,470 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 26.01.21 | 3 | 3,756 | 0,000 | 56,940 | 52,690 | 0,000 | 4,250 | 60,330 | 53,500 | 0,000 | 6,830 | 119,65 | 57,95 | 57,94 | 61,70 | 7,190 | 6,500 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 27.01.21 | 3 | 3,582 | 0,000 | 56,050 | 51,260 | 0,000 | 4,790 | 59,200 | 51,980 | 0,000 | 7,220 | 115,46 | 56,13 | 56,13 | 59,33 | 7,110 | 6,460 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 28.01.21 | 3 | 2,971 | 0,000 | 53,560 | 49,150 | 0,000 | 4,410 | 56,010 | 49,750 | 0,000 | 6,260 | 102,49 | 50,90 | 50,89 | 51,59 | 7,020 | 6,430 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 29.01.21 | 3 | 3,116 | 0,000 | 55,150 | 50,290 | 0,000 | 4,860 | 57,730 | 51,010 | 0,000 | 6,720 | 104,37 | 52,14 | 52,13 | 52,23 | 7,070 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 30.01.21 | 3 | 3,183 | 0,000 | 56,270 | 51,470 | 0,000 | 4,800 | 58,910 | 52,190 | 0,000 | 6,720 | 105,12 | 52,76 | 52,76 | 52,36 | 7,100 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 31.01.21 | 3 | 3,857 | 0,000 | 56,410 | 51,800 | 0,000 | 4,610 | 59,870 | 52,560 | 0,000 | 7,310 | 121,36 | 57,59 | 57,57 | 63,77 | 7,120 | 6,460 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 01.02.21 | 3 | 3,608 | 0,000 | 57,430 | 53,220 | 0,000 | 4,210 | 60,650 | 53,970 | 0,000 | 6,680 | 115,63 | 56,83 | 56,82 | 58,80 | 7,140 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 02.02.21 | 3 | 3,295 | 0,000 | 57,980 | 53,270 | 0,000 | 4,710 | 60,760 | 53,990 | 0,000 | 6,770 | 106,42 | 53,66 | 53,64 | 52,76 | 7,130 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 03.02.21 | 3 | 2,836 | 0,000 | 58,640 | 53,740 | 0,000 | 4,900 | 60,990 | 54,390 | 0,000 | 6,600 | 95,75 | 51,24 | 51,19 | 44,51 | 7,140 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 04.02.21 | 3 | 2,349 | 0,000 | 57,450 | 52,770 | 0,000 | 4,680 | 59,280 | 53,250 | 0,000 | 6,030 | 83,93 | 46,44 | 46,43 | 37,49 | 7,080 | 6,410 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 05.02.21 | 3 | 2,548 | 0,000 | 57,320 | 52,970 | 0,000 | 4,350 | 59,380 | 53,550 | 0,000 | 5,830 | 90,05 | 48,96 | 48,93 | 41,09 | 7,110 | 6,430 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 06.02.21 | 3 | 2,495 | 0,000 | 56,390 | 51,250 | 0,000 | 5,140 | 58,320 | 51,730 | 0,000 | 6,590 | 88,23 | 47,89 | 47,88 | 40,34 | 7,070 | 6,430 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 07.02.21 | 3 | 2,128 | 0,000 | 56,460 | 51,390 | 0,000 | 5,070 | 58,090 | 51,900 | 0,000 | 6,190 | 79,95 | 45,93 | 45,85 | 34,02 | 7,080 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 08.02.21 | 3 | 1,854 | 0,000 | 56,720 | 49,840 | 0,000 | 6,880 | 57,970 | 50,320 | 0,000 | 7,650 | 69,96 | 41,62 | 41,61 | 28,34 | 7,070 | 6,460 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 09.02.21 | 3 | 1,883 | 0,000 | 54,880 | 50,500 | 0,000 | 4,380 | 56,260 | 50,980 | 0,000 | 5,280 | 74,35 | 43,00 | 43,00 | 31,35 | 7,050 | 6,420 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10.02.21 | 3 | 2,713 | 0,000 | 55,790 | 51,340 | 0,000 | 4,450 | 58,000 | 52,040 | 0,000 | 5,960 | 95,70 | 50,82 | 50,82 | 44,88 | 7,100 | 6,450 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11.02.21 | 3 | 2,895 | 0,000 | 55,710 | 51,830 | 0,000 | 3,880 | 58,160 | 52,550 | 0,000 | 5,610 | 101,20 | 52,65 | 52,64 | 48,55 | 7,120 | 6,460 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12.02.21 | 3 | 3,127 | 0,000 | 57,800 | 53,210 | 0,000 | 4,590 | 60,490 | 53,930 | 0,000 | 6,560 | 104,03 | 53,99 | 53,98 | 50,04 | 7,130 | 6,450 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13.02.21 | 3 | 3,199 | 0,000 | 57,820 | 53,370 | 0,000 | 4,450 | 60,580 | 54,120 | 0,000 | 6,460 | 105,73 | 54,31 | 54,29 | 51,42 | 7,130 | 6,430 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14.02.21 | 3 | 3,079 | 0,000 | 58,920 | 53,280 | 0,000 | 5,640 | 61,430 | 54,000 | 0,000 | 7,430 | 100,29 | 52,72 | 52,71 | 47,57 | 7,080 | 6,390 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 15.02.21 | 3 | 2,789 | 0,000 | 57,040 | 52,360 | 0,000 | 4,680 | 59,320 | 53,080 | 0,000 | 6,240 | 95,79 | 50,68 | 50,68 | 45,11 | 7,080 | 6,400 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16.02.21 | 3 | 2,230 | 0,000 | 57,300 | 52,560 | 0,000 | 4,740 | 59,060 | 53,140 | 0,000 | 5,920 | 82,46 | 46,98 | 46,92 | 35,48 | 7,080 | 6,420 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17.02.21 | 3 | 1,960 | 0,000 | 56,930 | 51,820 | 0,000 | 5,110 | 58,360 | 52,300 | 0,000 | 6,060 | 74,37 | 43,33 | 43,33 | 31,04 | 7,060 | 6,410 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18.02.21 | 3 | 2,579 | 0,000 | 56,850 | 51,820 | 0,000 | 5,030 | 58,880 | 52,340 | 0,000 | 6,540 | 90,39 | 48,98 | 48,98 | 41,41 | 7,070 | 6,410 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 19.02.21 | 3 | 2,665 | 0,000 | 56,160 | 51,860 | 0,000 | 4,300 | 58,370 | 52,570 | 0,000 | 5,800 | 94,97 | 51,10 | 51,09 | 43,87 | 7,110 | 6,450 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20.02.21 | 3 | 2,701 | 0,000 | 56,120 | 51,470 | 0,000 | 4,650 | 58,320 | 52,140 | 0,000 | 6,180 | 94,89 | 50,60 | 50,60 | 44,29 | 7,100 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 21.02.21 | 3 | 2,935 | 0,000 | 56,710 | 51,910 | 0,000 | 4,800 | 59,180 | 52,630 | 0,000 | 6,550 | 100,13 | 52,48 | 52,48 | 47,65 | 7,090 | 6,420 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 22.02.21 | 3 | 2,901 | 0,000 | 57,150 | 52,590 | 0,000 | 4,560 | 59,610 | 53,310 | 0,000 | 6,300 | 99,79 | 52,92 | 52,91 | 46,87 | 7,120 | 6,440 | 24,00 | 0,00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Среднее | 3 | 2,849 | 0,000 | 56,616 | 51,800 | 0,000 | 4,816 | 58,971 | 52,451 | 0,000 | 6,520 | 97,31 | 50,95 | 50,93 | 46,36 | 7,096 | 6,437 | 24,00 | 0,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Итого | 3 | 88,328 | 0,000 | 1755,110 | 1605,810 | 0,000 | 149,300 | 1828,090 | 1625,980 | 0,000 | 202,110 | 97,31 | 50,95 | 50,93 | 46,36 | 7,096 | 6,437 | 744,00 | 0,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| На 23.01.21 | 3 | 237,651 | 0,000 | 5379,040 | 4819,190 | 0,000 | 559,850 | 5564,520 | 4871,210 | 0,000 | 693,310 | 100,40 | 51,45 | 51,44 | 48,95 | 7,050 | 6,420 | 2376,00 | 0,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| На 22.02.21 | 3 | 325,979 | 0,000 | 7134,150 | 6425,000 | 0,000 | 709,150 | 7392,610 | 6497,190 | 0,000 | 895,420 | 99,79 | 52,92 | 52,91 | 46,87 | 7,120 | 6,440 | 3120,00 | 0,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Ответственный за учет _____

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

Тепловой ввод 2. Схема 9

Активная база данных: 1 Потребитель: Советская 15
Поставщик:

| Дата | Схема | V1, м3 | V2, м3 | dV, м3 | ВНР, ч | ВОС, ч | НС V1 | НС V2 |
|-------------|-------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| 23.01.21 | 9 | 5,040 | 8,640 | -3,600 | 24,00 | 0,00 | 0 | 0 |
| 24.01.21 | 9 | 5,110 | 7,910 | -2,800 | 24,00 | 0,00 | 0 | 0 |
| 25.01.21 | 9 | 4,280 | 8,860 | -4,580 | 24,00 | 0,00 | 0 | 0 |
| 26.01.21 | 9 | 3,590 | 7,740 | -4,150 | 24,00 | 0,00 | 0 | 0 |
| 27.01.21 | 9 | 4,180 | 8,450 | -4,270 | 24,00 | 0,00 | 0 | 0 |
| 28.01.21 | 9 | 3,820 | 6,590 | -2,770 | 24,00 | 0,00 | 0 | 0 |
| 29.01.21 | 9 | 4,150 | 7,570 | -3,420 | 24,00 | 0,00 | 0 | 0 |
| 30.01.21 | 9 | 4,140 | 8,690 | -4,550 | 24,00 | 0,00 | 0 | 0 |
| 31.01.21 | 9 | 4,060 | 8,980 | -4,920 | 24,00 | 0,00 | 0 | 0 |
| 01.02.21 | 9 | 3,670 | 6,390 | -2,720 | 24,00 | 0,00 | 0 | 0 |
| 02.02.21 | 9 | 4,080 | 7,600 | -3,520 | 24,00 | 0,00 | 0 | 0 |
| 03.02.21 | 9 | 4,370 | 6,850 | -2,480 | 24,00 | 0,00 | 0 | 0 |
| 04.02.21 | 9 | 4,210 | 6,450 | -2,240 | 24,00 | 0,00 | 0 | 0 |
| 05.02.21 | 9 | 3,830 | 6,470 | -2,640 | 24,00 | 0,00 | 0 | 0 |
| 06.02.21 | 9 | 4,630 | 7,760 | -3,130 | 24,00 | 0,00 | 0 | 0 |
| 07.02.21 | 9 | 4,510 | 6,160 | -1,650 | 24,00 | 0,00 | 0 | 0 |
| 08.02.21 | 9 | 6,120 | 6,610 | -0,490 | 24,00 | 0,00 | 0 | 0 |
| 09.02.21 | 9 | 3,800 | 5,200 | -1,400 | 24,00 | 0,00 | 0 | 0 |
| 10.02.21 | 9 | 3,830 | 6,370 | -2,540 | 24,00 | 0,00 | 0 | 0 |
| 11.02.21 | 9 | 3,300 | 5,730 | -2,430 | 24,00 | 0,00 | 0 | 0 |
| 12.02.21 | 9 | 4,030 | 6,850 | -2,820 | 24,00 | 0,00 | 0 | 0 |
| 13.02.21 | 9 | 3,870 | 7,690 | -3,820 | 24,00 | 0,00 | 0 | 0 |
| 14.02.21 | 9 | 4,960 | 8,950 | -3,990 | 24,00 | 0,00 | 0 | 0 |
| 15.02.21 | 9 | 3,920 | 7,350 | -3,430 | 24,00 | 0,00 | 0 | 0 |
| 16.02.21 | 9 | 4,100 | 6,260 | -2,160 | 24,00 | 0,00 | 0 | 0 |
| 17.02.21 | 9 | 4,530 | 5,820 | -1,290 | 24,00 | 0,00 | 0 | 0 |
| 18.02.21 | 9 | 4,510 | 6,510 | -2,000 | 24,00 | 0,00 | 0 | 0 |
| 19.02.21 | 9 | 3,710 | 6,510 | -2,800 | 24,00 | 0,00 | 0 | 0 |
| 20.02.21 | 9 | 4,050 | 6,930 | -2,880 | 24,00 | 0,00 | 0 | 0 |
| 21.02.21 | 9 | 4,230 | 9,930 | -5,700 | 24,00 | 0,00 | 0 | 0 |
| 22.02.21 | 9 | 3,920 | 7,380 | -3,460 | 24,00 | 0,00 | 0 | 0 |
| Среднее | 9 | 4,211 | 7,265 | -3,053 | 24,00 | 0,00 | --- | --- |
| Итого | 9 | 130,550 | 225,200 | -94,650 | 744,00 | 0,00 | --- | --- |
| На 23.01.21 | 9 | 472,880 | 730,010 | -257,130 | 2376,00 | 0,00 | --- | --- |
| На 22.02.21 | 9 | 603,430 | 955,210 | -351,780 | 3120,00 | 0,00 | --- | --- |

Ответственный за учет _____

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

Принятые обозначения

Измеряемые параметры

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

Qr - 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

txв - температура холодной воды, °C

ВНР - время нормальной работы, ч

ВОС - время отсутствия счета, ч