

Appendix B – Load Forecast

- Note that the “Ultimate” loadings in these listings indicate expected load in the year 2023.
- Substations are listed under the BC Health Districts in which they are physically located, although some feeders connected to certain substations may serve a small portion of load in an adjacent district.

Central Okanagan (Kelowna)

| | | | | | PROJECTED - LOADING | | | | | | |
|---------|------------|-------------|------|---|---------------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| | | | | | 2004 kVA | 2005 kVA | 2006 kVA | 2007 kVA | 2008 kVA | 2009 kVA | Ultimate kVA |
| BUS NUM | Name | Transformer | PF | | 1 | 2 | 3 | 4 | 5 | 6 | |
| 52607 | Glenmore | T2 & T3 | 0.98 | W | 41811 | 42274 | 38379 | 38639 | 38991 | 39389 | 49934 |
| 52613 | Hollywood | T1 & T3 | 0.99 | W | 41097 | 41729 | 48974 | 49619 | 50376 | 51188 | 69082 |
| 52614 | Okanagan | T1 & T2 | 1.00 | W | 35586 | 36437 | 35045 | 36184 | 37391 | 38630 | 61035 |
| 52608 | Recreation | T1 | 0.99 | W | 22096 | 22221 | 22189 | 22373 | 22610 | 22873 | 29450 |
| 52606 | Sexsmith | T1 | 0.98 | W | 28275 | 29826 | 27257 | 28577 | 29942 | 31326 | 54895 |
| 52609 | Saucier | T1 | 0.99 | W | 21755 | 21663 | 21427 | 21406 | 21438 | 21499 | 25025 |
| 52619 | Joe Rich | T1 | 0.97 | W | 15548 | 18890 | 21675 | 24583 | 27496 | 30401 | 75486 |
| 52691 | Duck Lake | T1 | 0.98 | W | 4514 | 4723 | 4848 | 5016 | 5194 | 5375 | 8623 |
| 52604 | D.G. Bell | T1 | 0.99 | W | 15957 | 17121 | 20319 | 21445 | 22603 | 23772 | 43356 |
| 52208 | Lee | Tertiary | 0.97 | W | 18301 | 19051 | 19280 | 19688 | 20138 | 20608 | 29841 |
| Total | | | | | 244941 | 253935 | 259393 | 267530 | 276179 | 285062 | 446725 |
| Growth | | | | | | 3.67% | 2.15% | 3.14% | 3.23% | 3.22% | |

Okanagan-Similkameen

| | | | | | PROJECTED - LOADING | | | | | | |
|---------|-------------|-------------|------|---|---------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | | | | 2004 kVA 1 | 2005 kVA 2 | 2006 kVA 3 | 2007 kVA 4 | 2008 kVA 5 | 2009 kVA 6 | Ultimate kVA |
| BUS NUM | Name | Transformer | PF | | | | | | | | |
| 52649 | Huth | T7/T4-6 | 0.97 | W | 15533 | 15754 | 15793 | 15937 | 16082 | 16227 | 19881 |
| 52664 | Huth | T8 | 0.99 | W | 12623 | 12544 | 12575 | 12690 | 12805 | 12920 | 15830 |
| 52621 | KAL1 | T1 | 0.97 | W | 4431 | 4494 | 4505 | 4546 | 4588 | 4629 | 5671 |
| 52650 | Naramata | T1 | 0.97 | W | 7039 | 7139 | 7157 | 7222 | 7288 | 7354 | 9010 |
| 52622 | Okanagan F | T1 | 0.95 | W | 13775 | 14265 | 14301 | 14431 | 14562 | 14693 | 18002 |
| 52654 | Summerlan | T2 | 0.99 | W | 16732 | 16627 | 16669 | 16821 | 16974 | 17127 | 20984 |
| 52663 | Waterford | T1 | 0.99 | W | 10498 | 10432 | 10459 | 10554 | 10650 | 10745 | 13165 |
| 52656 | West Bench | T1 | 0.97 | W | 6409 | 6500 | 6517 | 6576 | 6636 | 6695 | 8203 |
| 52651 | Westminste | T1/T2 | 0.99 | W | 22634 | 22493 | 22550 | 22755 | 22962 | 23168 | 28386 |
| 52655 | Trout Creek | T1 | 0.97 | W | 7183 | 7286 | 7304 | 7370 | 7437 | 7504 | 9194 |
| 52629 | Keremeos | T1 | 0.98 | W | 10928 | 10970 | 10998 | 11098 | 11199 | 11300 | 13844 |
| 52630 | Hedley | T1 | 0.99 | W | 4651 | 4622 | 4633 | 4675 | 4718 | 4760 | 5832 |
| 1 | HED4 | step up? | 0.97 | W | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52632 | Anderson | T3 | 0.98 | W | 13620 | 13673 | 13708 | 13832 | 13958 | 14084 | 17256 |
| 52623 | Princeton | T3 | 0.95 | W | 18298 | 18949 | 18997 | 19170 | 19345 | 19518 | 23914 |
| 52230 | HED138 - P | m PSSE mo | 0.96 | W | 2347 | 2388 | 2389 | 2390 | 2391 | 2392 | 2570 |
| 52426 | Mas138 - P | m PSSE mo | 0.98 | W | 1623 | 1618 | 1618 | 1619 | 1620 | 1620 | 1741 |
| 52647 | Pine Street | T1 & T2 | 0.98 | W | 17067 | 17082 | 17125 | 17281 | 17438 | 17595 | 21558 |
| 52648 | Osoyoos | T1 & T2 | 0.98 | W | 16532 | 17527 | 18594 | 19737 | 20948 | 22231 | 27238 |
| 52243 | Oliver | T1 | 0.97 | W | 7986 | 8099 | 8120 | 8193 | 8268 | 8342 | 10221 |
| Total | | | | | 209909 | 212462 | 214013 | 216899 | 219870 | 222905 | 272501 |
| Growth | | | | | | 1.22% | 0.73% | 1.35% | 1.37% | 1.38% | |

Central Kootenay

| | | | | | PROJECTED - LOADING | | | | | | |
|---------|-------------|-------------|------|--------|---------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | | | | 2004 kVA 1 | 2005 kVA 2 | 2006 kVA 3 | 2007 kVA 4 | 2008 kVA 5 | 2009 kVA 6 | Ultimate kVA |
| BUS NUM | Name | transformer | PF | | | | | | | | |
| 52603 | Kaslo | T1 | 0.97 | W | 8009 | 8075 | 8119 | 8227 | 8325 | 8428 | 9741 |
| 52672 | Coffee Cree | T3 | 0.95 | W | 7645 | 7708 | 7750 | 7852 | 7946 | 8044 | 9297 |
| 52670 | Crawford Ba | T2 & T3 | 0.96 | W | 5484 | 5529 | 5559 | 5632 | 5700 | 5770 | 6669 |
| 52755 | VAL1 | T1 | 0.99 | W | 4194 | 4228 | 4251 | 4308 | 4359 | 4413 | 5101 |
| 52750 | Passmore | T1 | 0.94 | W | 3629 | 3659 | 3679 | 3728 | 3772 | 3819 | 4414 |
| 52714 | Playmor | T1 | 0.98 | W | 11007 | 11097 | 11158 | 11306 | 11441 | 11582 | 13386 |
| 52751 | SLO1 | T1 | 0.97 | W | 4328 | 4364 | 4388 | 4446 | 4499 | 4554 | 5264 |
| 52713 | Tarry's | T1 | 0.95 | W | 3286 | 3313 | 3331 | 3375 | 3416 | 3458 | 3996 |
| 52754 | YMR1 | T1 | 0.97 | W | 1090 | 1099 | 1105 | 1120 | 1133 | 1147 | 1326 |
| 52615 | Castlegar | T1 | 0.99 | W | 9238 | 9313 | 9364 | 9488 | 9601 | 9720 | 11234 |
| 52612 | Blueberry | T1 | 0.98 | W | 8022 | 8088 | 8132 | 8240 | 8338 | 8441 | 9757 |
| 52252 | CON63 - PS | m PSSE mo | 0.99 | W | 24813 | 25016 | 25152 | 25486 | 25790 | 26108 | 30176 |
| 52916 | CEL63 - PS | m PSSE mo | 0.98 | W | 12076 | 12175 | 12242 | 12404 | 12552 | 12707 | 14687 |
| 52917 | WST63 -PS | m PSSE mo | 0.98 | W | 5631 | 5678 | 5709 | 5784 | 5853 | 5925 | 6849 |
| 52653 | WHI1 | T1 | 0.95 | W | 329 | 331 | 333 | 338 | 342 | 346 | 400 |
| 52730 | Salmo | T1 | 0.95 | W | 6830 | 6886 | 6924 | 7016 | 7099 | 7187 | 8307 |
| 52702 | Wynndel | T1 | 0.97 | W | 4123 | 4157 | 4180 | 4235 | 4286 | 4339 | 5015 |
| 52708 | Creston | T1 & T2 | 0.97 | W | 27333 | 27557 | 27707 | 28074 | 28409 | 28760 | 33241 |
| | | | | Total | 147069 | 148275 | 149082 | 151059 | 152861 | 154746 | 178857 |
| | | | | Growth | | 0.82% | 0.54% | 1.33% | 1.19% | 1.23% | |

Kootenay - Boundary

| | | | | | PROJECTED - LOADING | | | | | | |
|---------|-------------|-------------|------|---|---------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | | | | | 2004 kVA 1 | 2005 kVA 2 | 2006 kVA 3 | 2007 kVA 4 | 2008 kVA 5 | 2009 kVA 6 | Ultimate kVA |
| BUS NUM | Name | Transformer | PF | | | | | | | | |
| 52704 | CHR1 | T1 | 0.99 | W | 3490 | 3514 | 3524 | 3563 | 3598 | 3631 | 4001 |
| 52605 | Ruckles | 1-13KV & 4. | 0.97 | W | 17037 | 17156 | 17203 | 17395 | 17565 | 17726 | 19533 |
| 52598 | Ruckles | | | | T2 | 0.97 | W | 9170 | 9234 | 9259 | 9363 |
| 52681 | GFT1 | T3 | 0.99 | W | 4029 | 4058 | 4069 | 4114 | 4154 | 4193 | 4620 |
| 52707 | Midway | T1 | 0.95 | W | 6801 | 6848 | 6867 | 6944 | 7012 | 7076 | 7797 |
| 52689 | ROC1 | T1 & T2 | 0.95 | W | 3112 | 3134 | 3142 | 3177 | 3209 | 3238 | 3568 |
| 52690 | BAL1 | T1 | 0.79 | W | 682 | 687 | 689 | 696 | 703 | 709 | 782 |
| 52706 | Greenwood | T1 | 0.95 | W | 2069 | 2083 | 2089 | 2112 | 2133 | 2153 | 2372 |
| 52626 | Hearns | T1 | 0.95 | W | 252 | 254 | 254 | 257 | 260 | 262 | 289 |
| 52628 | Fruitville | T1 | 0.89 | W | 8385 | 8443 | 8467 | 8561 | 8645 | 8724 | 9613 |
| 52723 | Trail | T1 | 0.97 | W | 2533 | 2551 | 2558 | 2586 | 2611 | 2635 | 2904 |
| 52627 | Beaver Park | T1 | 0.97 | W | 6185 | 6228 | 6245 | 6315 | 6377 | 6435 | 7091 |
| 52722 | Glenmerry | T1 | 0.97 | W | 9905 | 9975 | 10002 | 10114 | 10213 | 10306 | 11357 |
| 52611 | Stoney Cree | T1 | 0.97 | W | 5846 | 5887 | 5903 | 5969 | 6028 | 6083 | 6703 |
| 52703 | PAT1 | T1 | 0.97 | W | 812 | 818 | 820 | 829 | 838 | 845 | 931 |
| 52601 | Cascade | T1 | 0.99 | W | 7389 | 7441 | 7461 | 7544 | 7618 | 7688 | 8472 |
| Total | | | | | 87696 | 88310 | 88554 | 89541 | 90417 | 91247 | 100546 |
| Growth | | | | | | 0.70% | 0.28% | 1.11% | 0.98% | 0.92% | |