

Attachment to PSB Docket No. 8010 Order dated 2/9/2015

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Vermont Avoided Cost Rates for Levelized Long-term Firm and Non-Firm Sales Options


Long-Term Non-Firm Sáles
Five Year Contract Levelized

| January | $\$ 0.105$ | $\$ 0.077$ | na |
| :--- | :---: | :---: | :---: |
| February | $\$ 0.099$ | $\$ 0.075$ | na |
| March | $\$ 0.068$ | $\$ 0.050$ | na |
| April | $\$ 0.050$ | $\$ 0.037$ | na |
| May | $\$ 0.049$ | $\$ 0.035$ | na |
| June | $\$ 0.058$ | $\$ 0.042$ | na |
| July | $\$ 0.073$ | $\$ 0.046$ | na |
| August | $\$ 0.061$ | $\$ 0.042$ | na |
| September | $\$ 0.050$ | $\$ 0.037$ | na |
| October | $\$ 0.049$ | $\$ 0.037$ | na |
| November | $\$ 0.059$ | $\$ 0.045$ | na |
| December | $\$ 0.083$ | $\$ 0.061$ | na |

Long-Term Firm and Non-Firm Sales


## Long-Term Non-Firm Sales

Fifteen Year Contract Levelized

| January | $\$ 0.098$ | $\$ 0.072$ | na |
| :--- | :--- | :--- | :--- |
| February | $\$ 0.093$ | $\$ 0.070$ | na |
| March | $\$ 0.069$ | $\$ 0.052$ | na |
| April | $\$ 0.056$ | $\$ 0.042$ | na |
| May | $\$ 0.057$ | $\$ 0.041$ | na |
| June | $\$ 0.067$ | $\$ 0.048$ | na |
| July | $\$ 0.084$ | $\$ 0.052$ | na |
| August | $\$ 0.069$ | $\$ 0.048$ | na |
| September | $\$ 0.057$ | $\$ 0.042$ | na |
| October | $\$ 0.055$ | $\$ 0.042$ | na |
| November | $\$$ | $\$ 0.062$ | $\$ 0.048$ |
| December | $\$ 0.080$ | $\$ 0.059$ | na |
|  |  |  | na |



Vermont Avoided Cost Rates for Non-Levelized Short-Ferm and Long-term Firn and Non-Firm Sales Options

| $\frac{\text { Year }}{2015}$ | NON-LEYELRED |  |  | 12 |  | 3 | 4 | 3 | 6 | 7 | 8 | 910 | 0 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | January | February | March | Aprll | May | Iune | July | August | September | Ortaber | November | December |
|  | Peak | Shwh | \$0.1579 | 50.1486 | \$0.0865 | \$0.0501 | \$0.0431 | 50.0538 | \$0.0672 |  |  |  |  |  |
|  | Or-Peak | Shwn | \$0.1112 | \$0.1120 | \$0.0633 | \$0.0366 | \$0.0312 | $\begin{aligned} & 50.0538 \\ & 50.0388 \end{aligned}$ | \$0.0473 | $\$ 0.0570$ $\$ 0.0411$ | S0.0482 S0.0355 | \$0.0482 | \$0.0728 $\$ 0.0542$ | 50.1175 |
|  | Capacily | Shw | \$3.21 | \$3.21 | \$3.21 | \$3.21 | \$0.21 | \$ $\mathbf{\$ 3 . 4 3}$ | $\$ 0.0433$ $\$ 3.43$ | $\$ 3.43$ | S0.0355 $\mathbf{\$ 3 . 4 3}$ | $\begin{array}{r} \$ 0.0371 \\ \$ 3.43 \end{array}$ | $\begin{array}{r} \$ 0.0542 \\ \$ 3.43 \end{array}$ | $\begin{array}{r} \$ 0.0829 \\ \$ 3.43 \end{array}$ |
| 2016 | Paak | shwn | S0.1273 | \$0.1175 | \$0.0761 | \$0.0502 | \$0.0489 | \$0.0580 | \$0.0702 | \$0.0565 | 50.0469 | \$0,0463 | \$0.0625 | \$0.0962 |
|  | Or-Peak | Shun | S0.0355 | \$0.0903 | \$0.0547 | 50.0368 | \$0.0344 | \$0.0416 | \$0.0453 | \$0.0403 | \$0.0347 | 50.0346 | \$0.0466 | \$0.0710 |
|  | Capactly | smw | \$3.43 | \$3,43 | \$3.43 | \$3.43 | \$3.43 | \$3.15 | \$3.15 | \$3.15 | \$50.15 | \$ $\$ 3.15$ | +53.15 | \$3.15 |
| 2017 | Poak | saknh | \$0.0937 | \$0,0874 | \$0.0638 | S0.0504 | \$0.0513 | \$0.0507 | \$0.0794 | \$0.0608 | \$0.0488 | \$0.0475 | \$0.0566 | 50.0754 |
|  | OrPeak | salnh | \$0.0700 | \$0.0674 | \$0.0477 | \$0.0387 | \$0.0372 | \$0.0426 | \$0.0470 | \$0,0419 | \$0.0364 | \$0.0355 | \$0.0426 | \$0.0576 |
|  | Capsedy | Shw | \$3.15 | \$3.15 | \$3.15 | \$3.15 | \$3.15 | 57.02 | \$7.02 | \$7.02 | \$7.02 | \$7.02 | - $\$ 7.02$ | \$7.02 |
| 2018 | Paak | S/kMm | \$0.0649 | \$0.0616 | \$0.0542 | \$0.0498 | \$0.0525 | \$0.0582 | \$0.0772 | \$0.0690 | \$0.0522 | \$0.0511 | \$0.0502 | 50.0571 |
|  | OEPPask | Shath | \$0.0472 | \$0.0463 | 50.0407 | \$0.0360 | \$0.0370 | \$0.0421 | \$0.0459 | \$0.0432 | \$0.0389 | \$0.0382 | \$0.0389 | \$0.0431 |
|  | Capacity | SMV | \$7.02 | \$7.02 | \$7.02 | \$7.02 | \$7.02 | \$11.85 | \$11.86 | \$11.86 | \$11.86 | + 511.86 | + $\mathbf{\$ 1 1 . 8 5}$ | \$0.0432 |
| 2019 | Paak | shanh | \$0.0545 | \$0.0638 | \$0.0539 | \$0.0502 | \$0.0522 | \$0.0602 | \$0.0738 | \$0.0650 | \$0.0532 | \$0.0507 | S0.0510 |  |
|  | Ofreak | shunh | \$0.0472 | \$0.0477 | \$0.0413 | \$0.0359 | \$0.0347 | \$0.0431 | \$0.0468 | \$0.0444 | \$0.0391 | \$0.0378 | \$0.0399 | $50.0429$ |
|  | Capacity | s/3w | \$11.85 | \$12.86 | \$21.86 | \$11.86 | \$11.86 | \$12.04 | \$12.04 | \$1204 | \$12.04 | \$12.04 | \$12.04 | \$12.04 |
| 2020 | Peak | Sakhan | \$0.0682 | \$0.0565 | \$0.0565 | \$0,0538 | \$0.0561 | 50.0528 | 50.0816 | \$0.0655 | \$0.0548 | S0.0525 | \$0.0537 |  |
|  | Oll-Peak | SadMh | \$0.0495 | \$0.0493 | \$0.0432 | \$0.0404 | \$0.0396 | \$0,0455 | \$0.0491 | \$0.0463 | \$0,0405 | \$0.0389 | $50.0414$ | $\$ 0.0450$ |
|  | Capariy | shw | \$12.04 | \$12.04 | \$12.04 | \$12.04 | \$12.04 | \$12.28 | \$12.28 | \$12.28 | \$12.28 | $\$ 22.28$ | $\$ 12.28$ | $\$ 11.28$ |
| 2021 | Paak |  | \$0.0745 | \$0.0713 | \$0.0595 | 50.0545 | \$0.0579 | \$0.0661 | \$0.0850 | \$0.0679 | \$0:0571 | \$0.0587 | \$0.0570 |  |
|  | OffPak | sawh | \$0.0549 | \$0.0539 | \$0.0443 | \$0.0399 | \$0.0410 | \$0.0471 | \$0.0310 | \$0.0469 | \$0.0418 | \$0.0419 | \$0.0442 | $\$ 0.0481$ |
|  | Capachy | s\%W | \$12.28 | \$12.28 | \$12.28 | \$2228 | \$12.29 | \$12.53 | \$12.53 | \$12.53 | \$12.53 | \$12.53 | \$12.53 | \$12.53 |
| 2022 | Pank | SkWh | \$0.9765 | \$0.0792 | \$0.0609 | 50.0557 | \$0.0585 | \$0.0678 | \$0.0839 | \$0.0588 | \$0.0579 | \$0.0565 | \$0.0590 | \$0.0658 |
|  | OfPrak | ShWh | \$0.0562 | \$0.0545 | \$0.0457 | \$0.0396 | \$0.0392 | \$0.0480 | \$0.0531 | \$0.0481 | \$0.0430 | \$0.0424 | \$0.0454 | \$0.0494 |
|  | Capaeliy | shin | \$12.53 | \$12.53 | \$12.53 | \$12.53 | \$22.53 | \$1279 | \$22.79 | \$12.79 | \$12.79 | \$12.79 | \$1279 | \$12.79 |
| 2023 | Peak | s/kwh | \$0.0801 | \$0.0761 | \$0.0639 | \$0.0594 | \$0.0633 | \$0.0710 | \$0.0874 | \$0.0709 | \$0,0600 | \$0.0577 | \$0.0601 | \$0.0691 |
|  | Off-Paak | sakhat | \$0.0585 | \$0.0571 | \$0,0482 | \$0.0453 | \$0.0449 | \$0.0506 | \$0.0550 | \$0.0499 | \$0.0448 | \$0.0432 | S0.0467 | \$0.0517 |
|  | Caprecly | ShW | \$12.79 | \$12.79 | \$12.79 | \$1279 | \$12.79 | \$13.06 | \$13.06 | \$13.06 | \$13.06 | \$13.06 | \$13.06 | + $\mathbf{\$ 1 3 . 0 6}$ |
| 2024 | Pazar | SnMn | \$0.0865 | \$0.0833 | \$0.0631 | \$0.0607 | \$0,0645 | \$0.0726 | \$0.0912 | \$0.0766 | \$0.0640 | \$0.0523 | \$0.0637 | \$0,0750 |
|  | Onfrath | SnWh | \$0.0635 | \$0.0518 | \$0.0525 | \$0.0460 | \$0,0452 | \$0.0529 | \$0.0.962 | \$0.053b | S0.0473 | \$0.0465 | \$0,0497 | \$0.0559 |
|  | Capacity | saw | \$13.06 | \$13.06 | \$13.06 | \$13.06 | \$13.06 | \$13.33 | \$13.33 | \$13.33 | \$13.33 | \$13.33 | \$13.33 | \$13.33 |



Vermont Avoided Cost Rates For Non-Levelized Short-Term and Long-term Firm and Non-Fimm Sales Optlons

| Year | NON-LEVELRED |  | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 910 | 011 | 1112 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | January | Fohnuary | March | Aprll | May | June | July | August | September | October | November | December |  |
| 2035 | Peak | shwh | \$0.1185 | \$0.1145 | \$0.1015 | 50.0922 | S0.0978 | \$0.1096 | \$0.1300 | \$0.2140 | \$0,0943 | \$0.0914 | S0,0930 | \$0.1055 |  |
|  | OfPeak | SAWh | \$0.0887 | \$0.0871 | \$0.0786 | \$0.0739 | \$0.0732 | \$0.0821 | \$0.0869 | \$0.0824 | \$0.0730, | \$0.0697 | \$0.0746 | \$0.0813 |  |
|  | Capacity | skw | \$16.13 | \$15.13 | \$16.13 | \$16.13 | \$16.13 | \$16.42 | \$16.42 | \$16.42 | \$26.42 | \$16.42 | \$16.42 | \$16.42 |  |
| 2036 | Peak | SMWh | \$0.1230 | \$0.1179 | \$0.1045 | S0.0949 | \$0.1036 | \$0.1251 | \$0.1394 | \$0.1168 | 50.0990 | \$0.0977 | \$0.0972 | \$0.1083 |  |
|  | OfPrak | shun | \$0.0909 | 50.0899 | \$0.0811 | \$0.0742 | \$0.0768 | \$0.0864 | \$0.0918 | \$0.0858 | \$0.0760 | \$0.0749 | \$0.0796 | \$0.0831 |  |
|  | Capacily | Shw | \$16.42 | \$16.42 | \$26.42 | \$16.42 | \$16.42 | \$16.71 | \$16.71 | \$16.71 | \$16.71 | \$16.71 | \$16.71 | \$16.71 |  |
| 2037 | Peak | sakht | \$0.1254 | \$0.1230 | \$0,1074 | \$0.0991 | \$0.1033 | \$0.1197 | \$0.1431 | \$0.1190 | 50.1016 | \$0.0991 | \$0.0999 | \$0.1123 |  |
|  | OrPrak | s.akhth | \$0.0952 | \$0.0938 | \$0.0830 | \$0.0741 | \$0.0747 | \$0.0876 | \$0.0945 | \$0.0880 | \$0.0781 | \$0.0760 | \$0.0819 | \$0.0862 |  |
|  | Capacily | shw | \$16.71 | \$16.71 | \$16.71 | \$16.71 | \$16.71 | \$17.01 | \$17.01 | \$17.01 | \$17.01 | \$17.01 | \$17.01 | \$17.01 |  |
| 2038 | Peak | S.and | \$0.1325 | \$0,1292 | \$0.1124 | \$0.1025 | \$0.1085 | \$0.1222 | \$0.1432 | \$0.120s | \$0.1032 | \$0.1016 | \$0.1035 | \$0.1179 |  |
|  | Of-Peak | smam | \$0,1003 | \$0.0975 | \$0.0868 | \$0.0801 | \$0.0822 | \$0.0905 | \$0.0972 | \$0.0888 | \$0.0798 | \$0.0774 | 50.0839 | \$0.0902 |  |
|  | Capacity | \$/4W | \$17.01 | \$17.01 | \$17.01 | \$17.01 | \$17.01 | \$17.32 | \$17.32. | \$17.32 | \$17.32 | \$17.32 | \$17.32 | \$17.32 |  |
| 2039 | Peak |  | S0.1462 | 50.1414 | \$0.1211 | \$0.1047 | \$0.1130 | \$0.2288 | \$0.1504 | S0.1251 | \$0.1071 | \$0.1069 | \$0.1139 | 50.1284 |  |
|  | On-Peak | \$nWh | \$0.1122 | \$0.1081 | \$0.0912 | 50.0810 | \$0.0856 | \$0.0951 | \$0.1022 | \$0.0914 | \$0.0832 | \$0.0824 | \$0.0902 | \$0.0986 |  |
|  | Capacty | SnW | \$17.32 | \$17.92 | \$17,32 | \$17.32 | \$17.32 | \$17.63 | \$17.63 | \$17.63 | \$17.63 | \$17.63 | \$17.63 | \$17.63 |  |
| 2040 | Peak | skint | \$0.2541 | \$0.1491 | \$0.1266 | \$0.1082 | \$0.1172 | \$0.1341 | \$0.2559 | S0.1281 | S0.1105 | \$0.1111 | \$0.1172 | \$0.1348 | , |
|  | OrPPak | Sindor | \$0.1190 | \$0.2140 | \$0.0946 | \$0.0930 | \$0.08s0 | \$0.0986 | \$0.1065 | \$0.0940 | \$0.0859 | \$0.0880 | \$0.0946 | \$0.1035 |  |
|  | Capactly | S¢\% | \$27.68 | \$17.63 | \$17.63 | \$17.63 | \$17.63 | \$17.95 | \$17.95 | \$17.95 | \$17.95 | \$0.0805 | \$17.95 | \$17.95 |  |
| 2041 | Peak | SAMh | \$0.1624 | \$0.1572 | \$0.1323 | \$0.1116 | 50.1245 | \$0.1396 | \$0.1617 | \$0.1311 | \$0.1141 | \$0.1155 | \$0.1228 | \$0,1416 |  |
|  | Or-Puak | Sakh | \$0.1262 | \$0.1203 | \$0.0981 | \$0.0849 | \$0.0926 | \$0.1023 | \$0.1109 | \$9.0968 | \$0.0887 | \$0.0896 | \$0.0992 | \$0.1086 |  |
|  | Capacity | csidy | \$17.95 | \$17.95 | \$17.95 | \$17.95 | \$17.95 | \$18.27 | \$18.27 | \$18.27 | \$18.27 | \$18.27 | \$18.27 | \$18.27 |  |
| 2042 | Peak | SmWh | \$0.1711 | \$0.1657 | \$0.4382 | \$0.1152 | \$0.1260 | \$0,1453 | \$0.1676 | \$0.1342 | 50.1178 | - \$0.1201 | \$0. 2286 | \$01487 |  |
|  | CrrPoah | shan | 50.1338 | \$0.1270 | \$0.1028 | \$0.0869 | \$0.0963 | \$0.1062 | \$0.1155 | 50.0395 | \$0.0917 | \$0.0935 | \$0. 2040 | \$0.1139 |  |
|  | Eapactiy. | SnN0 | \$18.27 | \$18.27 | \$18.27 | \$18.27 | \$18.27 | \$18.60 | \$18.60 | \$18.60 | \$18.60 | \$18.60 | \$18.60 | \$18.60 |  |
| 2043 | Paak. | Shanh | \$0.1804 | \$0.1747 | \$0.1445 | \$0.1189 | 50.1307 | \$0.1513 | \$0.1738 | \$0.1374 | 50.1216 | \$0.1249 | \$0.1347 | 50.1561 |  |
|  | OfP-Patk | Syay | \$01419 | \$0.1340 | \$0.1056 | $\$ 0.0859$ | $\$ 0.1001$ | $\$ 0.1101$ | $\$ 0.1204$ | \$0.1025 | \$0.0947 | \$0,0975 | \$0.1091 | \$0.1196 |  |
|  | Capasiny | 敖W | \$18.50 | \$18.60 | \$18.60 |  | $\$ 18160$ | $\$ 18.94$ | $\$ 18.94$ | \$18.94 | \$18.94 | \$18.94 | \$18.94 | \$18.94 |  |
| 2044 | Puak | skun | \$0.1901 | \$0.1841 | \$0.1516 | \$0.1238 | \$0.1355 | \$0.1575 | \$0.1803 | \$0.1407 | \$0.2355 | S0.1799 | 50.1411 | \$0.1640 |  |
|  | . OffPak | Shah | \$0.1504 | \$0.1415 | \$0.1096 | \$0.0910 | \$0.1041 | \$0.1143 | \$0.1254 | \$0.1055 | \$0.c978 | \$0.1017 | \$0.1144 | \$0.1255 |  |
|  | Capack | shw | \$18.94 | -\$18.94 | \$18.94 | \$18.94 | . \$18.94 | \$19.28 | \$19.28 | \$19.28 | \$29,28 | \$19.28 | \$19.28 | \$19.28 |  |

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