

Residential DG Rate
Calculation of Proposed Distribution and Transmission Rates

| | 2015 Annual Billing Determinant | | Rates per month | | Annual revenue | |
|---|--|-------|---------------------|---------------------|---------------------|---------------------|
| | | | <u>Distribution</u> | <u>Transmission</u> | <u>Distribution</u> | <u>Transmission</u> |
| | | | | | | |
| <u>Residential Rate R</u> | | | | | | |
| Customer charge | 5,118,988 | bills | \$ 12.89 | \$ - | \$ 65,983,755 | \$ - |
| Charge per kW | 22,059,440 | kW | \$ - | \$ - | - | - |
| Charge per kWh | 3,053,879,016 | kWh | \$ 0.04207 | \$ 0.02390 | <u>128,476,690</u> | <u>72,987,708</u> |
| | | | | | \$ 194,460,446 | \$ 72,987,708 |
| <u>Proposed Residential DG Rate</u> | | | | | | |
| Customer charge | 5,118,988 | bills | \$ 12.89 | \$ - | \$ 65,983,755 | \$ - |
| Charge per kW | 22,059,440 | kW | \$ 5.82 | \$ 3.31 | 128,476,690 | 72,987,708 |
| Charge per kWh | 3,053,879,016 | kWh | \$ - | \$ - | <u>-</u> | <u>-</u> |
| | | | | | \$ 194,460,446 | \$ 72,987,708 |

Small General Service DG Rate
Calculation of Proposed Distribution and Transmission Rates

| | 2015 | | Rates per month | | Annual revenue | |
|---|---------------|--------------|-----------------|--------------|----------------------|----------------------|
| | Annual | | | | | |
| | Billing | Determinant* | Distribution | Transmission | Distribution | Transmission |
| <u>General Service Rate G</u> | | | | | | |
| Customer charge - single phase | 660,352 | bills | \$ 15.12 | \$ - | \$ 9,984,522 | \$ - |
| Customer charge - three phase | 229,732 | bills | \$ 30.23 | \$ - | 6,944,798 | - |
| Charge per kW (over 5.0 kW) | 4,097,698 | kW | \$ 8.86 | \$ 6.17 | 36,305,603 | 25,282,795 |
| Charge per kWh (First 500 kWh) | 268,984,645 | kWh | \$ 0.07097 | \$ 0.02227 | 19,089,840 | 5,990,288 |
| Charge per kWh (Next 1,000 kWh) | 290,889,406 | kWh | \$ 0.01758 | \$ 0.00838 | 5,113,836 | 2,437,653 |
| Charge per kWh (All additional kWh) | 1,164,976,352 | kWh | \$ 0.00622 | \$ 0.00449 | 7,246,153 | 5,230,744 |
| | | | | | <u>\$ 84,684,752</u> | <u>\$ 38,941,481</u> |
| <u>Proposed Small General Service DG Rate</u> | | | | | | |
| Customer charge - single phase | 660,352 | bills | \$ 15.12 | \$ - | \$ 9,984,522 | \$ - |
| Customer charge - three phase | 229,732 | bills | \$ 30.23 | \$ - | 6,944,798 | - |
| Charge per kW (all kW) | 6,432,698 | kW | \$ 10.53 | \$ 6.05 | 67,755,431 | 38,941,481 |
| Charge per kWh (All kWh) | 1,724,850,403 | kWh | \$ - | \$ - | - | - |
| | | | | | <u>\$ 84,684,752</u> | <u>\$ 38,941,481</u> |

| | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|----------------------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|
| Metered kWh - Pre-Net Metering | 648 | 597 | 554 | 487 | 458 | 486 | 672 | 619 | 594 | 474 | 478 | 552 | 6,619 |
| Billed kWh - Post-Net Metering | 396 | 356 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 281 | 1,203 |
| Billing kW | 4.7 | 4.8 | 4.5 | 4.4 | 4.6 | 4.9 | 5.2 | 5.3 | 5.2 | 4.7 | 4.4 | 4.6 | 57 |
| Est. DG Production | 251 | 241 | 474 | 598 | 646 | 698 | 781 | 748 | 708 | 489 | 388 | 271 | 6,293 |
| Net Export | 0 | 0 | 0 | 111 | 188 | 212 | 109 | 129 | 114 | 15 | 0 | 0 | 878 |
| Sales - Post-Net Metering | 107 | 111 | 236 | 338 | 389 | 396 | 320 | 333 | 329 | 284 | 224 | 135 | 3,204 |
| Purchase kWh - Post Net Metering | 503 | 467 | 316 | 338 | 389 | 396 | 320 | 333 | 329 | 284 | 314 | 416 | 4,408 |
| Net Monthly Purchase | 396 | 356 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 281 | 1,203 |
| Production Used On Site | 144 | 130 | 238 | 259 | 257 | 302 | 461 | 414 | 379 | 205 | 164 | 135 | 3,089 |

TOTAL BILL ANALYSIS

| Current Rate | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|-----------------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-------------|
| Pre Net Metering Bill | \$ 129.25 | \$ 120.26 | \$ 112.42 | \$ 100.43 | \$ 95.17 | \$ 100.20 | \$ 133.73 | \$ 124.07 | \$ 119.62 | \$ 98.10 | \$ 98.84 | \$ 112.07 | \$ 1,344.17 |

| Alt Net Metering Rate | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|------------------------------|-----------|----------|----------|-----------|------------|------------|-----------|-----------|-----------|-----------|----------|----------|------------|
| Post Net Metering - Charges | \$ 101.45 | \$ 97.24 | \$ 63.77 | \$ 54.74 | \$ 56.14 | \$ 59.19 | \$ 61.96 | \$ 62.52 | \$ 62.15 | \$ 56.92 | \$ 64.20 | \$ 87.55 | \$ 827.83 |
| Post Net Metering - Credits | \$ - | \$ - | \$ - | \$ (6.64) | \$ (11.27) | \$ (12.73) | \$ (6.53) | \$ (7.75) | \$ (6.85) | \$ (0.89) | \$ - | \$ - | \$ (52.66) |
| Post Net Metering Bill | \$ 101.45 | \$ 97.24 | \$ 63.77 | \$ 48.10 | \$ 44.87 | \$ 46.46 | \$ 55.44 | \$ 54.77 | \$ 55.31 | \$ 56.03 | \$ 64.20 | \$ 87.55 | \$ 775.18 |

| | January | February | March | April | May | June | July | August | September | October | November | December |
|-------------------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| Before Net Metering | \$ 129.25 | \$ 120.26 | \$ 112.42 | \$ 100.43 | \$ 95.17 | \$ 100.20 | \$ 133.73 | \$ 124.07 | \$ 119.62 | \$ 98.10 | \$ 98.84 | \$ 112.07 |
| Alternate Rate Proposal | \$ 101.45 | \$ 97.24 | \$ 63.77 | \$ 48.10 | \$ 44.87 | \$ 46.46 | \$ 55.44 | \$ 54.77 | \$ 55.31 | \$ 56.03 | \$ 64.20 | \$ 87.55 |

Rate Assumptions:

| PSNH Rate R | Current | Proposed |
|---------------------------|------------|------------|
| Customer Charge | \$ 12.89 | \$ 12.89 |
| Distribution Charge (kWh) | \$ 0.04207 | \$ - |
| Distribution Charge (kW) | \$ - | \$ 5.82 |
| SCRC | \$ 0.00094 | \$ 0.00094 |
| Transmission (kWh) | \$ 0.02390 | \$ - |
| Transmission (kW) | \$ - | \$ 3.31 |
| SBC | \$ 0.00330 | \$ 0.00330 |
| ES | \$ 0.10950 | \$ 0.10950 |
| Avoided Cost Rate | \$ 0.06000 | \$ 0.06000 |