

Company-Owned LED Street Lighting Rate Design

Rate Code E30

Monthly LED Street Lighting Rate Design Summary

| | NSP-SD | | | |
|---|-------------------------------------|----------------|----------------|----------------|
| | Per HPS/LED Street Light Equivalent | | | |
| | 100W/30-40W | 150W/50-75W | 250W/110-165W | 400W/200-245W |
| Current HPS Street Lighting Overhead Rates | \$14.06 | \$16.00 | \$20.68 | \$25.45 |
| Maintenance Savings | (\$0.91) | (\$0.91) | (\$0.91) | (\$0.91) |
| System Allocation Cost Savings | (\$0.58) | (\$0.78) | (\$1.12) | (\$1.75) |
| Incremental Capital Revenue Requirement | \$1.68 | \$1.85 | \$2.76 | \$4.05 |
| Net LED SL Fixture Rate Impact - Company Owned Street Lights ¹ | \$0.19 | \$0.16 | \$0.73 | \$1.39 |
| Proposed Monthly LED SL Overhead Rates | \$14.25 | \$16.16 | \$21.41 | \$26.84 |
| Current HPS Monthly Average Bill Per Street Light - Overhead | \$15.08 | \$17.49 | \$23.36 | \$29.66 |
| NET LED Fixture Impact on HPS Street Lighting Rate | \$0.19 | \$0.16 | \$0.73 | \$1.39 |
| Fuel Clause Savings Estimate | (\$0.69) | (\$0.92) | (\$1.33) | (\$2.08) |
| Total Monthly Bill Impact | (\$0.50) | (\$0.76) | (\$0.60) | (\$0.69) |
| Proposed LED Monthly Average Bill Per Street Light - Overhead | \$14.59 | \$16.74 | \$22.76 | \$28.97 |
| Percentage Savings (increase) | 3.3% | 4.3% | 2.6% | 2.3% |

¹ Overhead rates are used in the illustration, but the same adjustment will be applied to underground lighting rates

Annual Impact of LED Fixtures on the A30 Street Lighting System Service Rate

| | NSP-SD | | | |
|--|-------------------------------------|-----------------|-----------------|------------------|
| | Per HPS/LED Street Light Equivalent | | | |
| | 100W/30-40W | 150W/50-75W | 250W/110-165W | 400W/200-245W |
| Maintenance Savings | | | | |
| Relamp Expense Savings | \$4.57 | \$4.57 | \$4.57 | \$4.57 |
| Service Order Expense Savings | \$6.36 | \$6.36 | \$6.36 | \$6.36 |
| Total Maintenance Savings | \$10.93 | \$10.93 | \$10.93 | \$10.93 |
| Monthly Savings (increase) | \$0.91 | \$0.91 | \$0.91 | \$0.91 |
| System Allocation Cost Savings | | | | |
| Base Rate Energy Charge Savings | \$2.34 | \$3.16 | \$4.55 | \$7.11 |
| Demand Related Expense Savings | \$4.59 | \$6.19 | \$8.93 | \$13.94 |
| Total System Allocation Savings | \$6.93 | \$9.35 | \$13.48 | \$21.05 |
| Monthly Savings (increase) | \$0.58 | \$0.78 | \$1.12 | \$1.75 |
| Incremental Capital Revenue Requirement | (\$20.10) | (\$22.20) | (\$33.13) | (\$48.62) |
| Monthly Savings (increase) | (\$1.68) | (\$1.85) | (\$2.76) | (\$4.05) |
| LED SL Base Rate Savings (Increase) | (\$2.24) | (\$1.92) | (\$8.72) | (\$16.64) |
| Monthly Savings (increase) | (\$0.19) | (\$0.16) | (\$0.73) | (\$1.39) |
| Fuel and Rider Savings Estimate | \$8.22 | \$11.07 | \$15.99 | \$24.97 |
| Monthly Savings (increase) | \$0.69 | \$0.92 | \$1.33 | \$2.08 |
| Annual Bill Impact - LED Street Lights | \$5.98 | \$9.15 | \$7.27 | \$8.33 |
| Monthly Savings (increase) | \$8.22 | \$11.07 | \$15.99 | \$24.97 |