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Communities Served

- | | |
|----------------|-----------------|
| Alakanuk | New Stuyahok |
| Ambler | Nightmute |
| Andreafsky | Noatak |
| Anvik | Noorvik |
| Brevig Mission | Nulato |
| Chevak | Nunapitchuk |
| Eek | Old Harbor |
| Ekwok | Pilot Station |
| Elim | Pitkas Point |
| Emmonak | Quinhagak |
| Gambell | Russian Mission |
| Goodnews Bay | St. Mary's |
| Grayling | St. Michael |
| Holy Cross | Savoonga |
| Hoopers Bay | Scammon Bay |
| Huslia | Selawik |
| Kaltag | Shageluk |
| Kasigluk | Shaktoolik |
| Kiana | Shishmaref |
| Kivalina | Shungnak |
| Kotlik | Stebbins |
| Koyuk | Teller |
| Lower Kalskag | Togiak |
| Marshall | Toksook Bay |
| Mekoryuk | Tununak |
| Minto | Upper Kalskag |
| Mt. Village | Wales |



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AK-105

LED Streetlights Available Soon

AVEC has been developing a program for the installation of light-emitting diode streetlights and has installed a few BetaLED fixtures at our own facilities in Anchorage as a proving ground. These lights have not been through a full winter season yet so the track record is short, but the lights appear to be of good quality. Hopefully, they will live up to the low maintenance expectations for all LEDs.

The BetaLED fixtures we have selected can be connected at three different energy levels. The connection is made in the fixture as it is mounted to the pole. We recommend lights be installed at the lowest setting, providing the greatest energy savings. In testing we did in our yard, the low setting provided plenty of illumination and used about 50 watts as opposed to the 110-watt high-pressure sodium (HPS).

The color or "warmth" of the LED light is different from HPS, and communities should be aware the familiar yellow glow of the HPS will be gone. The actual energy consumption of BetaLED lamps as compared with the HPS lamps we currently use is as follows:

LED: 350mA, 48 Watts; 525mA, 73 Watts; 700mA, 104 Watts

HPS: 112 Watts

To reflect the variable power the LED lights will consume, we have drafted changes to our rate structure for streetlights. Communities can realize the greatest savings by selecting the most efficient setting. Only one setting per community will be allowed, as billing for multiple settings would be extremely complicated.

The annual fee for existing HPS street lights is \$264 per light, which covers energy, maintenance and replacement costs. The new LEDs would be billed at \$172.80 per light, \$205.20 per light or \$244.80 per light per year for the low, medium and high output settings, respectively. Fuel charges are additional and are computed based upon the kilowatt-hour consumption of the fixture. PCE is available for all public streetlights.

Installation charges also are being revised to reflect the first-time installation cost of the fixtures. HPS installation is being revised from \$150 to \$250 and LED installation will cost \$750.

These rates are proposed and not yet adopted by the board, but provide a good estimate of the savings that could be realized. A telephonic public hearing has been scheduled for noon Friday, January 6, 2012, for members to comment on the proposed changes. Information about the tariff change and call-in information will be provided in the December Ruralite magazine and posted on our website at www.avec.org.

Until next time,

Meera Kohler
President and CEO