## Energy consumption for typical minor road lighting is shown below:

| Lighting unit type   | Annual energy usage KWh   | % energy saving compared to SOX all night operation |
|--|---|---|
| SOX Normal Operation   | 58W x 4154hrs = 240kWh  | 0%  |
| SOX part night operation (off midnight – 6.00am)   | 58W x 2328hrs = 135kWh  | 44%   |
| LED Normal operation<br>(with standard dimming from 8pm with<br>further reduction at 11.00pm until 6.00am) | 26W x 783hrs = 20.3kWh<br>20W x 1093hrs = 21.8kWh<br>14W x 2278 = 31.8kWh<br>Total = 73.9kWh                          | 69%   |
| LED part night operation<br>(dimming and off midnight – 6.00am)  | 26W x 783hrs = 20.3kWh<br>20W x 1093hrs = 21.8kWh<br>14W x 365hrs = 5.1kWh<br>Total = 47.2kWh                         | 80%   |
| LED reduced output operation (dimming and 20% midnight – 6.00am)   | 26W x 783hrs = 20.3kWh<br>20W x 1093hrs = 21.8kWh<br>14W x 365hrs = 5.1kWh<br>6W x 1913hrs = 11kWh<br>Total = 58.2kWh | 76%   |