**Electrical Energy**

**(EE10)**



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| **Fact Sheet EE10: Switch to LED or high pressure sodium or low-wattage metal halide lamps for outdoor lighting** |
| **Overview** |
| *Objective* | Reduce the electrical energy consumption of outdoor lights |
| *Action* | Use LED or high pressure sodium or low wattage metal halide lamps for outdoor lighting  |
| *Key Challenges* | None |
| **Process** |
| *Complexity* | Low, off-the-shelf products are available |
| *Equipment & Material*  | New high efficiency luminaires |
| *Human Resources* | Maintenance or engineering department personnel |
| **Considerations** |
| *Regulatory Aspects* | No |
| *Economic*  | High CAPEX, no special OPRX, and high expected net annual savings |
| *Advantages* | Newer technologies provide lower energy consumption and longer product life time |
| *Disadvantages* | None |
| **Impacts** |
| *Environmental* | Pollution reduction by avoiding CO2 emissions |
| *Employment Opportunities* | None |