**Electrical Energy**

**(EE03)**



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| **Fact Sheet EE03: Replace At least 75% of the indoor standard sized light bulbs with energy-saving light bulbs (CFL, LED)** |
| **Overview** |
| *Objective* | Reduce electrical energy consumption in indoor lighting |
| *Action* | Replace at least 75% of indoor standard sized bulbs with more energy efficient technologies (LED, CFL) |
| *Key Challenges* | Finding luminaires or bulbs of similar characteristics to existing ones |
| **Process** |
| *Complexity* | Low complexity, off-the-shelf drop in replacements are available |
| *Equipment & Material*  | New light bulbs or luminaries |
| *Human Resources* | Maintenance and engineering department personnel |
| **Considerations** |
| *Regulatory Aspects* | None |
| *Economic*  | High CAPEX, no special OPEX, high expected savings |
| *Advantages* | * Lower energy consumption
* Longer lamp lifetime
 |
| *Disadvantages* | High initial investment required |
| **Impacts** |
| *Environmental* | Pollution reduction by avoiding CO2 emissions |
| *Employment Opportunities* | None |