## Energy Conservation
## Payback / Savings Calculations

**Holiday Inn XXXXXX**

**Average Cost of Kwh:** $0.1607

**Quick Wins**

| Date | Area / Room | Type of conservation | Total watt | Hrs saved | Days | Cost of Matr / Labor | $Kwh | Gross Savings | 1 Y Net Savings | 3 Y Net Savings | Pay Back in Years | Pay Back in Days | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| xx/xx/xx | Lobby Mens room | Sensor on part of lighting | 340 | 12 | 365 | $80.00 | $0.16 | $239.31 | $159.31 | $637.94 | 0.33 | 122 | Sensor only for Wall lights |
| xx/xx/xx | Lobby Ladies room | Sensor on part of lighting | 476 | 12 | 365 | $80.00 | $0.16 | $335.04 | $255.04 | $925.12 | 0.24 | 87 | Sensor only for Wall lights |
| xx/xx/xx | Kitchen Men's locker room | Sensor on lighting | 68 | 16 | 365 | $50.00 | $0.16 | $63.82 | $13.82 | $141.45 | 0.78 | 286 | |
| xx/xx/xx | Managers Office | Sensor on lighting | 241 | 12 | 261 | $50.00 | $0.16 | $121.30 | $71.30 | $313.89 | 0.41 | 108 | |
| xx/xx/xx | Guest rooms | Repl. Incand. With Fluorescents | 46080 | 2.5 | 274 | $7,920.00 | $0.16 | $5,067.84 | -$2,852.16 | $7,283.51 | 1.56 | 428 | Fluoresc. 10,000 hrs |
| | Guest rooms | Incand. Bulb cost (savings) | | | | | | | $419.22 | $1,257.66 | | | Incand. 1,000 hrs - bulb cost $ 0,00085 |
| xx/xx/xx | Maint. Shop | Install 2 sensors | 306 | 12 | 365 | $100.00 | $0.16 | $215.38 | $115.38 | $546.15 | 0.46 | 169 | |
| xx/xx/xx | Exercise Room | Install sensor on part of lighting | 272 | 12 | 365 | $80.00 | $0.16 | $191.45 | $111.45 | $494.35 | 0.42 | 153 | Leave middlearea (16) watt allways on |
| xx/xx/xx | Front Desk side office | Sensor on lighting | 160 | 12 | 365 | $50.00 | $0.16 | $112.62 | $62.62 | $287.86 | 0.44 | 162 | |
| xx/xx/xx | Restaurant | install light near coffee maker | 390 | 4 | 365 | $90.00 | $0.16 | $91.50 | $1.50 | $184.51 | 0.98 | 359 | |
| | | eliminate use of 7 fixtures | | | | | | | | | | | |
| | TOTALS: | | | | 365 | $8,500.00 | | $6,438.26 | -$2,061.74 | $11,434.50 | 1.32 | 482 | |

**It should be noted that in some areas electrical work such as installation of door-switches, sensors, and timers can be done by hotel maintenance staff, in other areas the work should be done by a licensed electrician. (this might effect the stated approx. cost)**

**Assumptions:**

**Replacement fluorescent for guestrooms 26 watt, cost $ 11.--**
**Cost of 90 watt lightbulb presently used $ 0,85**
**Occupancy rate used: 75%**