

## IDA's **New 2013 Outdoor Lighting Estimates:**

Check out these new estimates on wasted energy.

Some highlights:

- Outdoor lighting accounts for eight percent of total global energy use.
- Of that, 80 percent is used for commercial & public exterior lighting.
- Total wasted energy from outdoor lighting is approx. 60-70 percent.

**That's 1.1 PetaWatt hours of wasted energy every year!**

A petawatt is equal to one quadrillion ( $10^{15}$ ) watts or 1,000,000,000,000,000 watts!

### **World Outdoor Lighting Facts**

- **8% of Total Energy Used for Outdoor Lighting**
- **80% is used for Commercial & Public Exterior Lighting**
- **~750 million Outdoor Lighting Fixtures\* Worldwide**
  - Commercial & Public Exterior (\*Road, Street, Parking + Buildings)
- **~300 million Outdoor Lighting Fixtures\* in Europe**
- **~160 million Outdoor Lighting Fixtures\* in US**
- **Total Wasted Energy is approx. 60-70% overall from:**
  - **Unwarranted (Not needed) = 25%**
  - **Over-lighting (Excessive Illumination) = 25%**
  - **Not Dimmed or on Curfew = 25%**
  - **Glare = 15%**
  - **Uplight = 10%**
  - **Approximately Wasted Energy = 1.1 PetaWatt Hours Annually**
  - **The equivalent output of 500 Power Plants**
  - **Could power ~ 7,750,000 homes**
  - **Producing 750 million tons of CO<sub>2</sub>**
  - **Cost = Approximately \$110 billion (US Dollars)**