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(57) Abstract :

The solar water bulb lighting system is an innovative and eco-friendly lighting solution designed to utilize solar energy for illumination. The system features a transparent bulb filled with purified water and a small quantity of bleach, which together enable the refraction and diffusion of sunlight. The sunlight, captured by a solar collector and directed into the bulb, is dispersed through the water to produce a soft and natural light. This approach provides effective and gentle illumination for indoor spaces, particularly in areas with limited or no access to electricity. The system offers significant environmental and cost benefits by reducing reliance on traditional electrical power and minimizing energy costs.

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