

The Smart Green House

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Abstract

The Smart Green House manages and saves electricity inside and outside the house. Also, it has a component to manage the usage of water in the garden. The UAE has one of the highest per capita rates of energy usage. This project is an automated system that can easily be incorporated into homes and offices that can manage the usage of lighting and water. This will benefit the nation by reducing the usage of energy in the home.

The Smart Green House uses a motion sensor to determine if someone is present inside a room. If someone is present, it will switch on the lights, if not it will switch them off to save electricity. Also, many people use outdoor lights for safety and security. This system uses a light sensor to determine if the outdoor lights need to be switched on when it is dark or very cloudy. Lastly, a

moisture sensor is used to probe the status of the soil in the garden. It will automatically water the plants when the soil’s moisture is below the recommended level required by the plant. This automated system will prevent over usage of water in traditional irrigation systems.



Figure 1: Garden Ornament