2012 年臺灣國際科學展覽會

優勝作品專輯

國家：Hong Kong

編號：100030

作品名稱

Free Dome

得獎獎項

三等獎

作者姓名

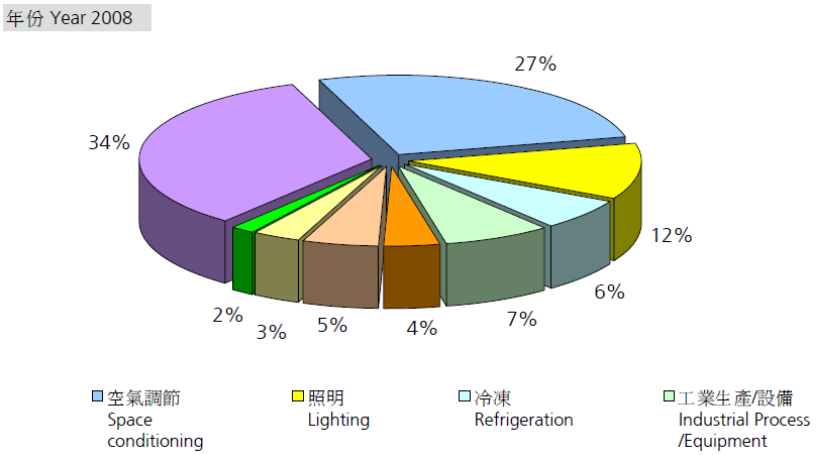
Law Ka Po

Yeung Kwong Tin

Abstract

In the future, energy supply is the most serious problem to our society due to the shortage of fossil fuel. We should try to save energy as much as we can in different aspects in order to maintain the sustainable development of our society.

According to the statistic report of electrical end uses 2008, showing that Space conditioning and Lighting shared 27% and 12% of the total electricity supply respectively.



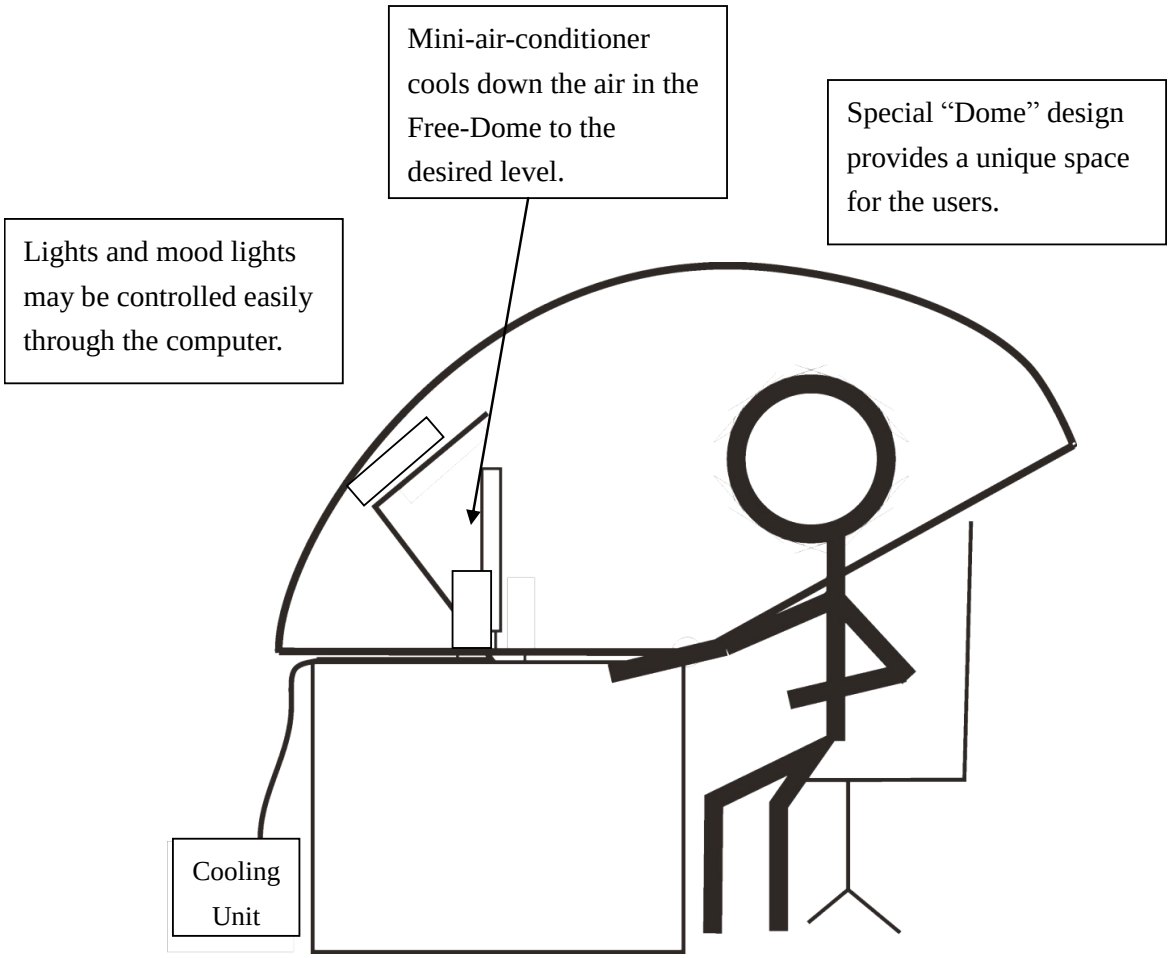
We design this “Free-Dome” to provide the individual users unique spaces for their work or entertainment where the lighting and temperature are easily and freely controllable. As a result, we may save lots of energy by reducing the lighting and space conditioning to the unnecessary area or public area.



A “Dome” design form a personnel working space.

Design Concept

1. Physical Environment



評語

1. 利用電腦控制結合照明、風扇及噴霧塑造一個有效率的個人辦公空間。

2. 已展現具有照明明暗調整、情境照明、風速調控、噴霧調控，並且設計暫離或離開辦公室之節能設計。

3. 其應用介面具備能量使用顯示，如果可以將能量使用計量作適當校準並且可以將各種使用狀態的能量使用作比較，更能彰顯節能的效益。