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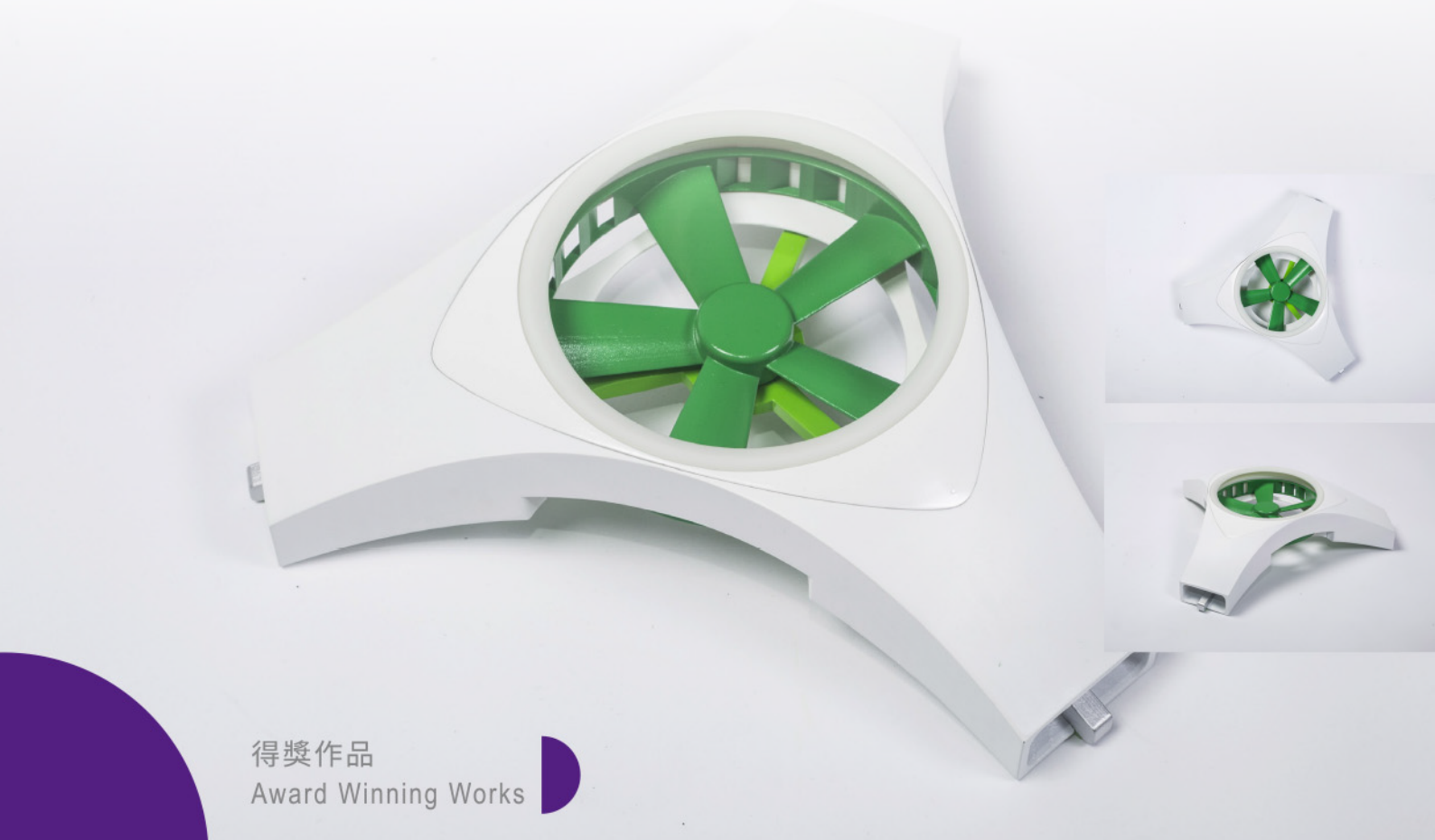
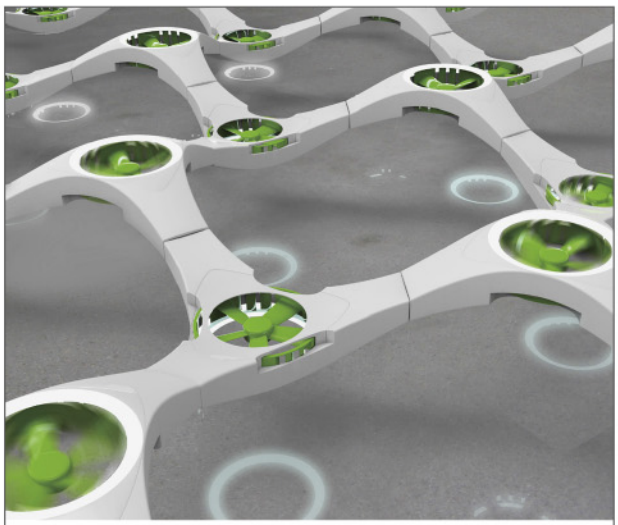
Share Shear

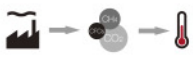
敝人居住於深具聞名的風城新竹，利用新竹長年風大的特性，以風力作為設計發想之切入點。我們設計了可以無限重複排列簡單塑型的單元件結構，可以配合大樓的外型建構；若將此裝置鑲嵌於大樓外部牆壁上，當強勁風力吹過時可轉換成電能並產生光，如此即可形成一面光牆。當整座城市中的大樓有了這個裝置，可減少路燈之使用，並達到減少公共用電量的環保效能。此作品名為Share Shear，其中Share為「分享」的概念，代表這裝置可與其它裝置連結並相互合作，只要一個風扇被轉動，便可將多餘的電力分享至其他各個裝置上。Shear則是「剪力」的意思，當風從空地吹往城市時，因為壓力的關係就會產生風切效應(wind shear effect)。

I live in Hsinchu, a city famous in Taiwan for its strong winds thus having the title of Wind City. By using this characteristic, I designed a device that can be put on buildings and walls, so when fierce winds blow, it can create energy that can be used for lighting. The light will become like a wall and this “light wall”, can decrease the use of streetlights to save electricity. This work is called Share Shear. “Share” is a sharing concept, since these devices can be connected with each other. As long as a fan is rotating, you can share the excess power with other devices. “Shear” refers to “wind shear effects”, so when the wind blows from the open space to the city the pressure difference produces wind shear effect.

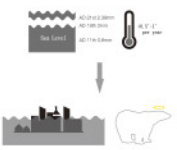




Since the 18th century with the development and progress of the industrial evolution, but also caused some environmental impact. Global warming was the most impressed in recent years,and summer is getting hotter in these years.



Global warming is one if the big issue in recent years, because of human's activity, since the beginning of the 11th century level rise per year 0.6mm, a year to the average sea level rise in the 19th century 2mm, but up to now in 21st century, sea level rise per year up to 2.39mm. In terms of the actual temperature, if the air does not change the structure, the temperature rise in the averager per year to about 0.5 to 1 dree.

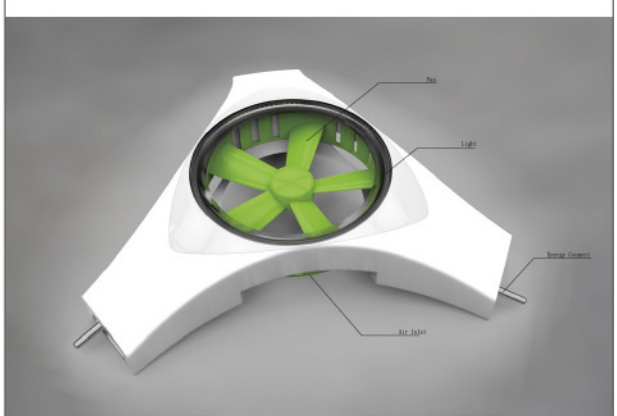


Share Shear

A new style of power system.
Use the wind shear to shapower

Sha re Shear

A new style of power system.
Use the wind shear to share power



When in the urban areas, I often feel the wind is very strong. In fact, the wind blows from the space to the clearance between buildings, causing the pressure difference, and made the wind shear effects. If we can take advantage of the strong wind to create energy, it would be more effective than other methods.

wind shear effects

Wind makes Power

Every parts can conect with each other

Build on building makes the power