**Taiwan dazzles the world with led technology**

LED是被譽為繼電燈泡之後，人類照明史的第二個最重要發明，照明佔了全世界20%的電力消耗，因此照明產業成為綠色運動的頭號革命對象。台灣近年來不只加入了LED綠色革命，產能上堪稱世界第一，並且也扮演了推動技術革新的關鍵角色。

LEDs are used as the perfect replacements for traditional lamps and many electronic appliances. Illumination alone takes up to 20% of the world’s electricity consumption. The need for advanced development of LED materials technology to produce more light output while maintaining efficiency and reliability has been crucial in the industry. Taiwan has not only manufactured the world’s highest volume of LED products, but also shocked the business with various technological reforms.

另一項台灣廠商向世界展示競爭力的重要發展，是導入LED照明設備的多元運用，從B2B到B2C，室內到室外，甚至擴及到蔬菜水果的照顧，LED植物工廠成為近年來的新名詞。在LED科技支撐下，植物工廠在台灣逐漸發展成受人矚目的環保產業，在寸土寸金的台北市信義路，就有一家結合了LED科技種植技術與美食的概念餐廳，不但種起了蔬菜，也因此賺進大把的綠金。

In addition to leading the world’s LED chip production, Taiwan also demonstrate competitive advantage in various uses of LED lights. LED plant factory, for example, is a closed growing system enabling farmers to achieve constant production of vegetables all year around. Food produced and consumed in a local area can easily reach a balance, thus leading to low food mileage. It’s suitable for populated cities like Taipei. In recent years, restaurants even proudly show you what you eat.

以LED光照加上食品級營養液的提供，精確的控制包括溫度、濕度、光質、光照強度、二氧化碳濃度等，讓植物工廠的蔬菜在不受外界影響的潔淨室中成長，也因為沒有病蟲害所以不需使用農藥去蟲除菌，讓土壤免於酸化的危機，並且可以讓產量維持平穩。大自然和科技的進步共存，讓農業的種植回到最初自然、單純的方式，還給地球一個最純淨無汙染的環境。

The rise of cool LEDs has revolutionized the potential of the agriculture industry. The plant factory utilizes artificial control of LED lights, temperature, moisture, and carbon dioxide concentrations. In addition, as plant factories are more highly controlled environments, resources that fuel plant growth can be used more efficiently; for example, condensed water is captured in air conditioners and reused on plants. Moreover, a plant factory can be adjusted to the available space.