TKU PROFESSORS SUCCEEDED IN DEVELOPING POWER RECHARGE CONTROL

英文電子報

Three TKU professors, Dr. Wen-chian Tu (Dept. of Mechanical Engineering), Dr. Kan-Nan Chen (Dept. of Chemistry) and Dr. Tuen-li Chen (Dept. of Chemistry), in cooperation with Hong Ching Environmental Engineering Co., successfully developed a "power recharge control system" which doubled the normal power durability of electric bike (from the normal 50-60 Km per charge to 100-110 Km per charge). Now, with four-hour charge, an electric bike can last from Taipei to Hsinchu.

TKU and HCEEC held the public demo of the new product at Taipei campus on August 10, 2004. Prof. Chin-ting Tsai of Department of Industrial Economics, after trying out the new bike, remarked that "the new bike has high potential in market with its noise-free and exhaust-free quality and high power durability."

Mr. Ching-hsiang Yang, a TKU alumnus and Executive Manager of HCEEC, indicated that this project has lasted for one year, and the Automotive Research and Testing Center has also proved the electric bike's ground-breaking improvement of efficiency. This project will continue, with 300 Km per charge as its target.

Dr. Wen-chian Tu, who has participated in this research for five years, pointed out that traditional motor bikes lasted 80-100 Km with the amount of $80 NT gas and electric bike, in contrast, saved the environment and resource, yet it had less power durability. Now, with this "power recharge control system," four-hour charge, which amounts to $4 NT dollars, can last an electric bike 110 Km.

Dr. Tuen-li Chen added, with double durability and a 3-5 years warranty, the application of such a system can be extended to other vehicles and

electric appliances, in addition to electric bikes. It will surely become one of the resource-saving high technologies.