

# 利用太陽能之空調節能技術研發、示範與推廣

執行單位

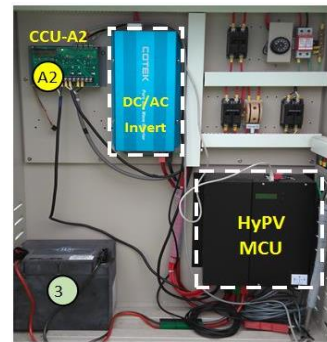
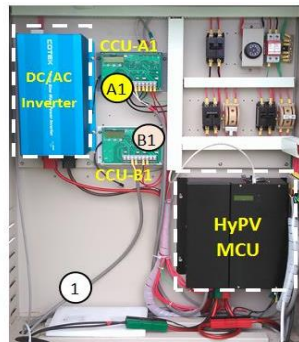
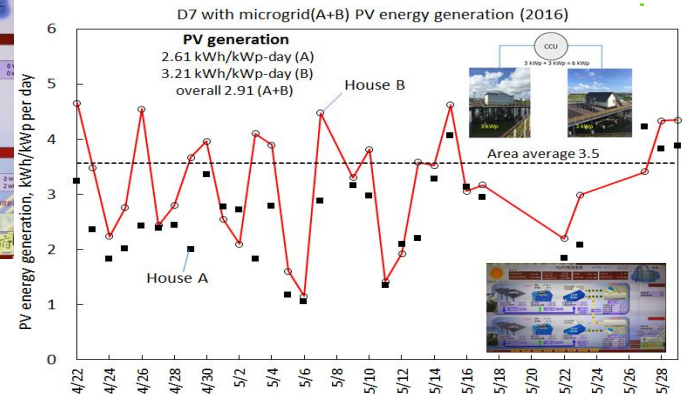
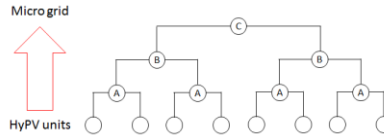
國立台灣大學機械工程系

計畫主持人

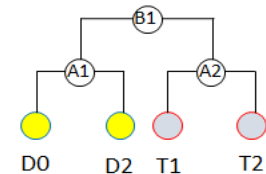
黃秉鈞

本計畫開發自用型太陽光發電(含蓄能)以及儲能空調技術，並建造示範系統實際運轉測試，展示節能降低負載，再利用太陽光發電與儲能供給尖離峰用電。研究內容包括: (1)儲冷(熱)太陽能空調系統；(2)自用型太陽光發電系統(HyPV)；(3)金字塔太陽能微電網；(4)智能型單軸追日太陽光發電系統(1A-MPG)

發明專利獲准2件  
專利布局: 金字塔太陽  
能微電網

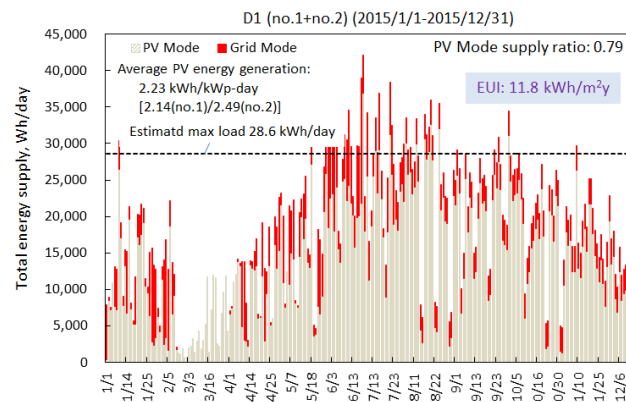
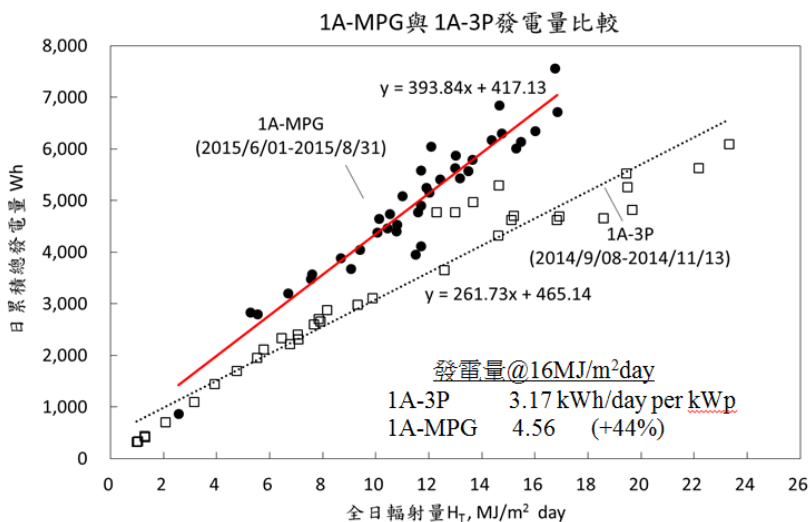
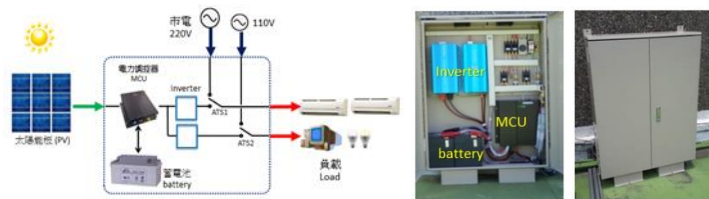


金字塔太陽能微電網



本計畫開發自用型太陽光發電(含蓄能)以及儲能空調技術，節能降低負載，再利用太陽光發電(HyPV)與儲能供給尖離峰用電，可做到近零耗能。

智能型單軸追日太陽光發電系統比1A-3P  
提升44%發電量，適合複雜環境應用。





# Energy saving of air conditioning system utilizing solar PV

Execution Unit

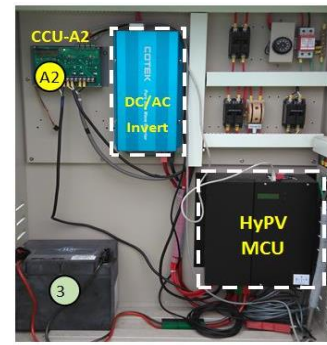
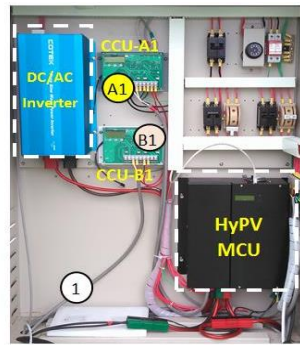
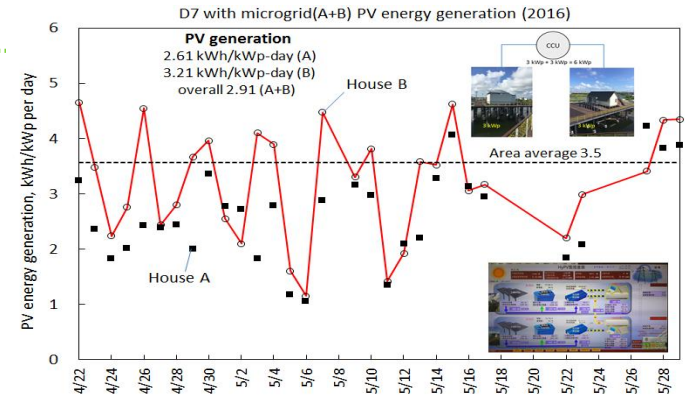
National Taiwan University

Project Director

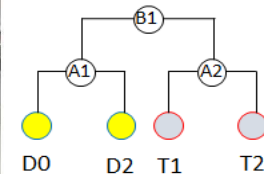
Prof. Bin-Juine Huang

- The solar home system for self-consumption with storage (HyPV) was developed. HyPV can be connected to create a solar pyramid micro-grid or installed on 1-axis maximum power tracker (1A-MPG) to obtain optimum power generation.

發明專利獲准2件  
專利布局: 金字塔太陽能微電網



金字塔太陽能微電網



- The solar home system for self-consumption with storage (HyPV) was developed. HyPV can be connected to create a solar pyramid micro-grid or installed on 1-axis maximum power tracker (1A-MPG) to obtain optimum power generation. Nine demonstration plants were built.

