



• Smart Solar Energy Harvesting, Storage, and Utilization



Features

# Smart Solar Energy Harvesting, Storage, and Utilization



Prof. Wong Ching-ping (1st right) and his CUHK team members

## (TRS, HK\$ 60.33M) Participating Institutions: CUHK, HKUST, POLYU

Prof. **Wong Ching-ping**, Dean of Engineering, and his team members study the new technology in energy harvesting, storage and utilization in this project. They will develop high-performance vacuum deposited thin-film photovoltaics (PV) devices and modules which will make low-cost, high-throughput, and large-area PV production possible. They will explore new materials and processing approaches for high energy-density batteries and supercapacitors, so as to realize a hybrid storage system. They will also formulate strategies to integrate, manage, and control various subsystems to enhance the efficiency and security in energy utilization. Professor Wong believes the project will strengthen the competitive edge of Hong Kong in solar energy technologies and increase the penetration of solar energy utilization.

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