

Smart grids and green energy for GP



Participants getting a firsthand view of the photovoltaic modules and cloud-based energy management and monitoring systems at AU Optronics Corporation. Photo: Taiwan Environmental Management Association

The ROC worked intensively for two decades to develop smart grid infrastructure and green energy, along with supporting technologies, policy infrastructure, and business networks necessary for the transformation. In recognition of those efforts, in 2013 the China Productivity Center was designated as the APO Center of Excellence on Green Productivity (GP). To share the results achieved, the APO conducted a multicountry observational study mission on Promoting Green Productivity with Focus on Smart Grids and Green Energy, 5–9 September in Taipei, for 22 participants and three observers from 13 member countries.

Resource persons from the ROC, Japan, and the USA presented case studies from their countries and experiences in projects in France, Spain, and the UK. They covered the GP benefits as well as challenges in developing sustainable

power systems. Traveling through half of Taiwan Island, the mission observed innovative applications of solar and wind power by the ROC's largest power generation and distribution company, Taiwan Power Company. They also saw the latest technologies on fuel cells, portable microgrids, and the ROC's largest rooftop photovoltaic systems from Chung Hsin Electric and Machinery and AU Optronics.

The observational study mission also focused on showcasing how these technologies could be integrated into daily life, and the participants were impressed by Tatung Company's community-based microgrids that provide self-sustaining power supplies to remote areas and Living 3.0's automated systems integrating green buildings, smart devices, recycling, and renewable energy systems. 🌀