

RISUD Strategic Focus Area (SFA) Scheme

| | Name | Department |
|---|--|------------|
| 1. Principal Investigator: | Prof. Shengwei Wang | BSE |
| 2. SFA name: | Development of Smart and Grid-Responsive Buildings | |
| 3. Project Title: | Optimized Design and Optimal Control of Smart Buildings of Enhanced Grid Friendliness and Responsiveness | |
| 4. First Year Progress/Achievement | <p>Prof. Shengwei Wang who serves in the division of Green Buildings of RISUD gave a keynote speech in the International Conference on Applied Energy (ICAE) held in Hong Kong on the 23rd August, 2018. ICAE is an annual conference organized by the academic journal Applied Energy (Impact factor: 7.900). It has been held annually across the globe with success in the mainland China, Italy, South Africa, etc., and the 2018 conference has attracted more than 1,000 attendees from more than 20 countries to share research of important energy topics and applications.</p> | |

In this year, the theme of the conference is “innovative solutions for energy transitions”. Considering achievements of the research under RISUD Strategic Focus Area Scheme and other associated research projects, the organizing committee invited Prof. Wang to give a keynote speech on “optimal design and control for energy-efficient buildings and grid-responsive buildings”. In the speech, he described his findings and innovations in his RISUD Strategic Focus Area (SFA) research, including the optimization of building air conditioning systems for smart grid applications, the integration of green buildings with smart grids and how different building equipment can improve the grid friendliness of buildings and the grid economy. He discussed how his research and innovations transform building energy system to serve the grid and to be components of the future smart grid.



Prof. Shengwei Wang presents his research on smart and grid-responsive buildings in a keynote speech in the world-renowned international conference on Applied Energy 2018.