News Article for RISUD Strategic Focus Area (SFA) Scheme

		Name	Department
1.	Principal Investigator:	Prof. Shengwei Wang	BSE
2.	Name of SFA:	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. Second Year Progress/Achievement

- ➤ The feasibilities and capabilities of buildings for grid operating reserves of different time scales and demand response are being investigated;
- > Demand response and demand limiting strategies have been developed;
- > Design of buildings and energy systems of enhanced grid-friendliness and responsive capacity are being developed;
- > Development of frequency-response control methods;
- > Set-up of a test platform for frequency-response control performace tests.

A test platform for frequency-response control performace tests of building HVAC systems has been built. This facility will be used to test the capacity and the dynamics of HVAC components (paricaularly variable speed pumps) used to responning to the frequency response signals of smart grid. The facility will be used aslo to develop and test new frequency-response strategies.