

Special Session
on
Water-energy-food-carbon nexus in urban and
regional metabolism

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Scope and Objectives:

Consumption of water, energy and food are highly intertwined in urban and regional metabolism. Securing energy, food supply and conserving water while maintaining a low-carbon economy is strongly upheld by United Nations Sustainable Development Goals. Optimizing water use systems from a life-cycle perspective is an important part of meeting the challenge associated with water-energy-food-carbon nexus. There is a strong need of understanding the patterns, structure and mechanism of water-energy-food-carbon nexus in urban and regional metabolic systems. Therefore, this session will solicit abstracts in a range of aspects of water-energy-food-carbon nexus in human economy from urban to regional scales and how to achieve tradeoffs in managing water use systems and regulate related environmental elements.