

アグリバイオインフォマティクス教育研究ユニット

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演題 : 「Water versus energy, a key issue to adapt global warming and urbanization」

教室 : 東京大学農学部 7 号館 A 棟 7 階 716 号室 (会議室)

要旨 : Water is needed to generate energy. Energy is required to deliver, clean, and evaporate water. Thus, there are extensive linkages between water and energy use. Meanwhile, both resources may limit the other, especially in the context of urbanization and industrialization as well as climate change. Unfortunately, up to now, little attention has been paid to the tension between water and energy in academic institutions, governmental agencies, and industries. Since water and energy nexus is extremely important for human beings to adapt to global warming, it is time for us to share some of our frontier ideas in this field. In this study, based on paper reviewing and extensive investigation, we explore the nexus between the water and energy in China, mainly focused on 4 fields: 1) water resource development and its energy consumption; 2) water and energy nexus in agriculture; 3) water and energy nexus in industries; and 4) energy consumption by evapotranspiration and its effect on reducing urban temperature. By this study, many new data and results are obtained, which are useful for better water and energy management and adaptation to climate change.