Sustainable water security towards mutual benefit and win-win cooperation: Comparative analysis of action plans on implementation of the 2030 Agenda for Sustainable Development between the European Union and China

Jialiang Cai¹ and Olli Varis^1

¹Aalto University

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Abstract

Over the past 100 years, socioeconomic development has been ceaselessly putting great pressure on our freshwater resources. It has led to overwhelming and undermining nature's ability to provide key functions and services, i.e. growing water scarcity and deterioration of water-related environment and ecosystems worldwide. The establishment of the 2030 Agenda's Sustainable Development Goal (SDG) 6, therefore not only articulates the augmented concerns on water sustainability issues in the global political agenda, but also highlights that all countries (stakeholders) committed to translating the global goals and targets to national (own) targets and indicators, along with their individual challenges and corresponding opportunities of accounting for mutual benefit and win-win cooperation. The European Union (EU) (developed) and China (developing), as the second and third largest economies respectively, have been addressing sustainable development as an overarching objective for policymaking on the economic, social, and environmental dimensions, and working accordingly in a balanced and integrated manner. They have been joining forces, as equal partners, for better water through the China Europe Water Platform (CEWP) built in 2012, which provides a unique prospective to insight into how the EU and China have been making unremitting efforts for pursuing water sustainability, as well as the characteristics of action plans on SDG 6 implementation between the EU and China. The principal aim of this study is to comprehend (1) the status quo of the EU and China's progress on SDG 6 targets, (2) how the EU and China can take forward implementation in partnership to enable and accelerate progress towards achieving SDG 6, and (3) how the EU and China can go beyond SDG 6 to establish linkages across the 2030 Agenda in the context of water-energy-food nexus. The highlights to fill the aforementioned knowledge gaps can be portrayed as follows: (1) the EU and China could develop a national indicator system together regarding SDG 6 targets, (2) the EU and China could establish a national indicator database together, in accordance with the national indicator system, and (3) the EU and China could conduct a lesson learned workshop together, in terms of equitable, participatory, and transparent SDG 6 policy process.

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Water & Development Research Group, Department of Built Environment, Aalto University, Finland



