

Sarpong Hammond Antwi, Dundalk Institute of Technology

The recent restructuring of water governance in the Republic of Ireland has attempted to facilitate a more integrated national approach to managing water resources. Changes include the establishment of Irish Water, the introduction and subsequent repeal of charges for water and wastewater services, and changes in governance processes through the Second River Basin Management Plan, in addition to the role of Group Water Schemes in water supply and management in rural Ireland. Climate change has also become a catalyst for continuous variations in the hydrological cycle and extreme meteorological and agricultural droughts. There are also changes in the freshwater ecosystem and a reduction in water quality, affecting water resource availability. A better understanding of the effects of social shifts and economic impacts of changes in water resources management is therefore needed in addition to understanding the future impacts of climate change. Hammond's research identifies and examines over seven decades of water governance and practice changes in the water-rich Republic of Ireland, highlighting significant events and preparedness for future challenges. The research contributes to the field of water governance and management practices and the broader debate on the relevance of stakeholder engagement to sustainable water governance and management and policy formulation and implementation. The research findings have been disseminated through four scientific journal articles, two book chapters, a technical report for the National Federation of Group Water Schemes, and a policy brief for An Fóram Uisce (the National Water Forum) and have been extensively discussed by stakeholders for policy consideration and implementation. The findings have also been presented at various national and international conferences, with numerous prizes and grants awarded. These include the Recipient of Best Message Award at the Netherlands River Studies conference in Delft in 2023, the American Geophysical Union Chapman Water Availability Grant in 2022, and An Fóram Uisce research bursary in 2021. The research work and achievements have been highlighted across various online news portals, newspapers, and social media platforms as part of science communication and engagement efforts. Hammond holds a post-doctoral research fellowship at the Centre for Freshwater and Environmental Studies (CFES) at Dundalk Institute of Technology (DKIT), funded by the Irish Research Council. His research is dedicated to conducting actor-network analysis of stakeholders within the Water sector of the Republic of Ireland.