

Swati Kumari is a PhD graduate from the Centre for Studies in Science Policy, Jawaharlal Nehru University, India. Her doctoral work focuses on Responsible Innovations in public transportation to ensure social sustainability of the low carbon transitions in the transport sector. Her interdisciplinary background includes M.Phil in Innovation Studies and a Master in Sociology from Jawaharlal Nehru University in India. She did her undergraduate studies at the Harcourt Butler Technical University, India, where she graduated in Engineering. She has worked as an R&D Engineer for designing sustainable energy solutions. Her research interests include mobility studies, low carbon energy transitions, Value-sensitive designs, and Responsible Innovations theories & practices.

Project at IAS-STIS: A Case Study of Smart Energy Networks for E-vehicles in Austria from the Lenses of Responsible Innovations

New technology comes and operates in a socio-technical landscape; it gets shaped and, in return, influences society. With the circular relationship between technology and society, sustainability of technology essentially includes not only economic and environmental

sustainability but also social sustainability. There is little evidence available related to the social sustainability of the Smart Energy Networks (SENs), which is crucial for democratic economies from the perspective of equity and participation. Such deficiencies have led to the limited understanding of the SENs, confining only the identification of technical barriers. Contrarily, evidence suggests that a unilateral approach by missing the voices of diverse stakeholders is not conducive to the faster diffusion of the technology either. This project has the following objectives:

- I. To analyse the SENs policies in Austria to identify the gaps, barriers, and drivers from firms, institutions, and users' perspectives.

- II. To develop the key policy suggestions for economic, environmental and socially sustainable Smart Energy Networks for e-vehicles.

Selected Publications

Kumari, Swati; Singh, Rajbeer; Kumari, Madhu: Ensure Value Sensitive Design Responsibly for Social Sustainability: A Case of E-vehicle Design in Delhi, India, Journal Title: STS Conference Graz Proceeding, Page: 437-452.

<https://openlib.tugraz.at/download.php?id=6188f3985b14a&location>

Prabha, Jyoti; Kumari, Swati: Responsible Innovation Approach for Sustainability of Emerging Technologies: Reflections from two Case Studies, Journal Title: Oriental Research Madras, Vol XCII-XIV, Page: 51-64. https://www.academia.edu/79434512/Responsible_Innovation_Approach_for_Sustainability_of_Emerging_Technologies_Reflections_from_two_Case_Studies_Swati_Kumari

Kumari, Swati; Singh, Rajbeer: E-Mobility Through RRI to Achieve Social Sustainability: A Case Study of Women Commuters of Delhi, India, Journal Title: STS Conference Graz Proceeding, Page: 437-452. <http://diglib.tugraz.at/download.php?id=5e29b15157ee3&location=browse>

Kumari, Swati: Nanomaterials in Sewage Treatment for Cleaning River Yamuna from the Lenses of Responsible Innovation, Journal Title: S.T.I. 2018 Conference Proceeding, Page: 999-1007, Publisher: Centre for Science and Technology Studies (C.W.T.S.).

<https://openaccess.leidenuniv.nl/handle/1887/65293#>

Kumari, Swati: Responsible Research & Innovation Pathways for Future of Sustainability of E-Mobility, Journal Title: Voyager, Vol viii No. 1 Part 2, Page: 90-100.

https://www.academia.edu/79433537/Responsible_Research_and_Innovation_Pathwayfor_theFuture_of_Sustainability_of_E_Mobility