

Editorial

This issue deals with important changes that are happening in the overall environment, agriculture sector, energy sector and in rainfall and temperature over space and time in various parts of SE Asia. The first paper explores the economic and environmental sustainability of tenant farming among the Mishing tribe in Majuli, the biggest river island. Second paper deals with the impacts of marble mining activities on local air quality to help to formulate a stringent air quality regulation for sustainable mining practices to mitigate environmental and health impacts. The third one analyses the climate change impact that is challenging due to climate data's intricate and dynamic nature that used fuzzy rough set theory (FRST) to perform feature selection in the analysis of climatic data to effectively address uncertainty and vagueness in climate data. The fourth paper shows the negative effects of climate change on mangroves and the preservation aspects linked to climate mitigation in the Sundarbans ecosystems. Another one gives overall picture of emissions of greenhouse gases (GHGs) that are a prime concern in the energy sector that accounts for a significant GHGs-emission, followed by agriculture, industry, land use change and forestry and waste sector. Yet another paper on Bhutan narrates the impact of digitisation that affects the pillars of Gross National Happiness and shows that the convergence of the digitisation and development to enhance GNH influences all aspects of Bhutanese life including environmental conservation. And finally a paper on the analysis of the data from various taluks to analyze the changes/trends and variability in annual and seasonal rainfall using Sen Slope and Mann-Kendall analysis and identifying the higher mean rainfall and lower mean rainfall zones for the benefit of the policymakers to address climate change impact and water resource management in the region.

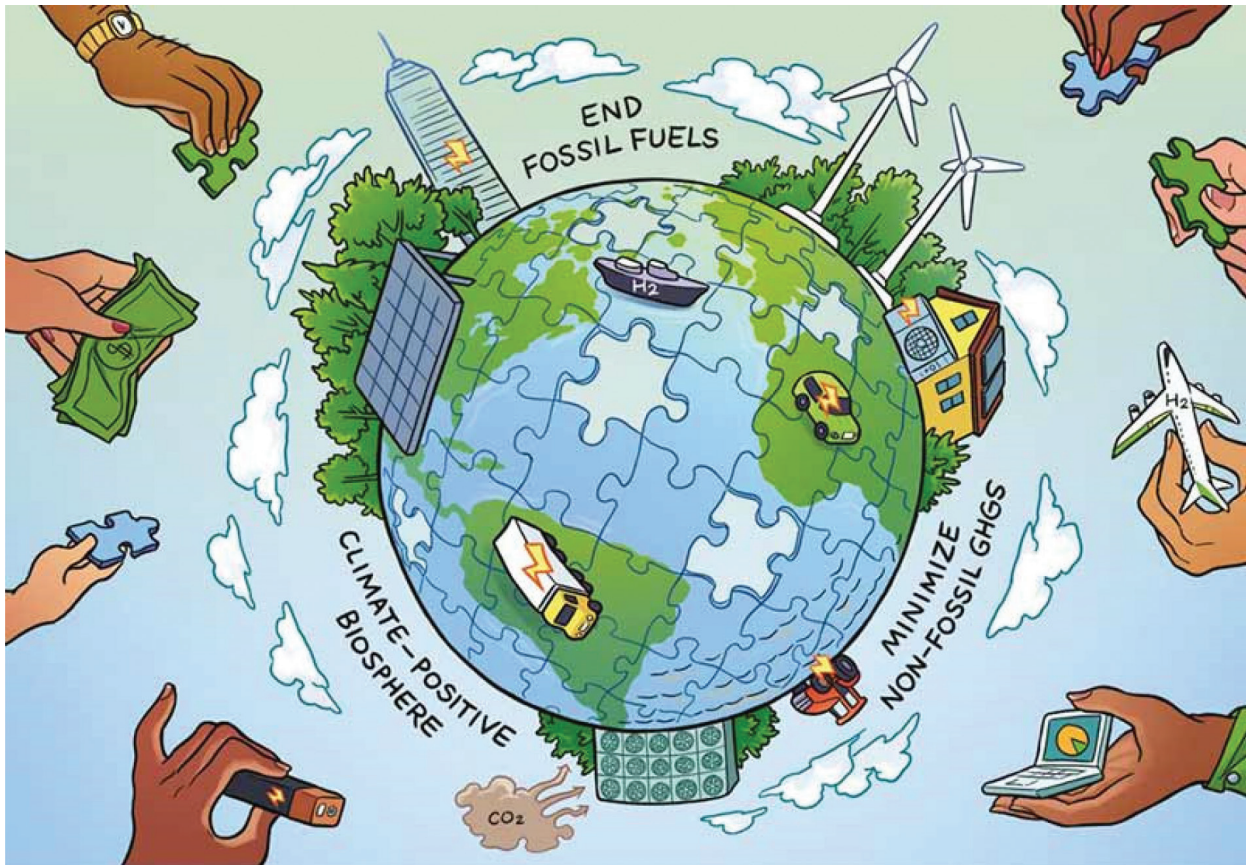
Happy reading!

August 30, 2024



(AL. Ramanathan)

Editor-in-Chief



Source: Courtesy: Violet Kitchen, 2022,

Contents

<i>Editorial</i>	i
□ <i>Snapshot</i>	ii
Economic and Environmental Resilience of Tenant Farmers in Majuli, Assam <i>Bondita Saikia, Trinadh Nookathoti and Channaveerayya Hiremath</i>	1
Spatio-Temporal Assessment of Air Quality in Rajsamand District, Rajasthan Using Cloud-Based Google Earth Engine Approach <i>Kamod Kanwar Rathore, Suraj Kumar Singh, Shruti Kanga, Bhartendu Sajan, Pankaj Kumar, Gowhar Meraj and Saurabh Singh</i>	9
Exploring Climate Interactions: A Fuzzy Rough Set Theory Approach <i>Leena Sharma, Hemlata Saxena and Minakshi Panchal</i>	23
Review on Conservation Approach Study of Largest Mangrove Ecosystem as the Mitigation of Climate Change <i>Prabal Barua, Sadika Sultana Chowdhury and Abhijit Mitra</i>	31
Small States, Big Impact: A Review of Rising Greenhouse Gases Emission from the Energy Sector in India <i>Avinash Dass, Amit Kumar Mishra and Rajesh Kumar Ranjan</i>	43
Contesting Gross National Happiness in the Context of the Digital: <i>The Digital and GNH Divide in Bhutan</i> <i>Upama Gurung</i>	53
Spatio-Temporal Mechanisms of Rainfall in Kalaburagi District: An Analysis of Trends and Variability <i>Anveer, Vishwanath B.C., Prasanna Kumar K.R. and Mahalingam Bose</i>	61
Increase in Paleoproductivity Driven by Strengthening of Indian Summer Monsoon During Past ~14kyrs: Evidenced by Biogenic Silica Accumulation Rates at Southeastern Arabian Sea <i>Arunkarthik Palanisamy, Yoganandan Veeran, Sivachandiran Alagudurai and Monisha Balasubramanian</i>	77