



3rd International Conference on Higher Education Institute Challenges Solutions for Sustainable Development Goals 2024

SDG 16 Report - Clean Water and sanitation



Organized by

Centre for Research in Environment, Sustainability Advocacy and Climate CHange (REACH),

Directorate of Research, Directorate of Research, SRMIST
In Association with

National institution for Ocean Technology,

Chennai





S.no	Convener and co	Name and affiliation
	convener category	
1	Convener	Dr. Paromita Chakraborty
		Professor & Head,
		Centre for Research in Environment, Sustainability
		Advocacy and Climate CHange (REACH),
		Directorate of Research, SRMIST.
2	Convener	Dr. Purnima Jalihal
		Scientist G & Head, Energy and Fresh Water
		National Institute of Ocean Technology, Chennai.
3	Co-Convener	Dr. S. Prabhakar
		Adjunct Faculty,
		Department of Chemical Engineering, SRMIST.
4	Co-Convener	Dr. Vishali S
		Associate professor & Head,
		Department of Chemical Engineering, SRMIST.
5	Co-Convener	Dr. Prasanna K
		Associate Professor,
		Department of Civil Engineering, SRMIST
6	Co-Convener	Dr. Muthamilselvi P
		Assistant Professor,
		Department of Chemical Engineering, SRMIST
7	Co-Convener	Dr.G.Vanthana Sree
		Scientist, REACH, Directorate of research, SRMIST
8	Coordinator	Dr. Sachikanta Nanda
		Associate Professor,
		Department of Civil Engineering, SRMIST











3RD INTERNATIONAL CONFERENCE

INTERNATIONAL CONFERENCE ON INNOVATIONS IN WATER TREATMENT AND DESALINATION SUSTAINABLE SOLUTIONS FOR SEAWATER UTILIZATION

Organized by

CENTER FOR RESEARCH IN ENVIRONMENT, SUSTAINABILITY ADVOCACY
AND CLIMATE CHANGE (REACH)

03 - 05 DECEMBER 2024

SDG 6: CLEAN WATER AND SANITATION



ABOUT THE DEPARTMENT

The Copies for Research in Environment, Summability Advocacy, and Chinate Change (R.E.A. fit) in SRM fundation of Science and Technology, Kartankulothur, Turnit Nadu, Source interspectually operated in invescemental automability, claims change, and social development. Adjunct with the UN's Sunfamilité Development Goals, REACH focuses on four key avere Environment. Air pollution, whate management, GRS, water and and manuscon, and environmental health. Sustainable Development: Policy frameworks, outmand programs, and waste mayolog, Advocacy, Community service, devironmental others, conference, and subjectly services. Change: Addressing drought, climate adaptation, and atmospheric transport. REACH promotes innovative solutions to global suscentional challenges, translating research into tangelic assental benefits.

The National Institute of Ocean Technology (NROT) is an autonomous body under the Ministry of flarth Sciences. Government of faults. Established in 1991, NSOT focuses on the development of ocean technology and managed to harmon ocean measures in an environmentally statistically statistical protection, and marine pollution statistical SDG 6 — Clear Water and Sociation NIOT's work in servator devaluation before provide clear drinking water to constitute and and regions, particularly addiscount water scarning.





























ORGANIZING COMMITTEE



Dr. Parousta Chabrahorts Professor & Stead, Conto for Research in Environment, Santainability Advances and Climate Citings (REACH), Discounts of Research, SEMINT CONVENER



Dy. Porplate Littlet. National Invitory of Gover Technology, Chemial CONVENER



Adjoint Family. Ovpartieses of Chomical Engineering CO-CONVENER



Dr. Vichnii S. Associate professor & Head, Organization of Changes Unphronting CO-CONVENER



Dr. Promine h Associate Profess CO-COVERSE



Dr. Mathambatet P. Organisasy of Chemical Engineering CO-CONVENER



DESCRIPTION NO. P. STATE OF CO. CONVENIES CO.



Dr. Sachtanta Namba Asserbate Profess COORDINATOR

STUDENT REPRESENTATIVES



51b. Shifti Solinia Residence Schuler



Myselanda Scholar

CO-CONVENOR & CONTACT

Dr. Michaellechi P. (Addition Professor, Chemical Engineering) 7131929984

Dr. G. Vaerbaue Sees (Scientist, REACH)

0000734922

















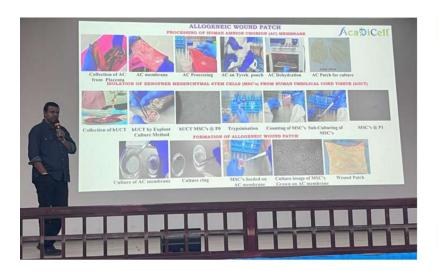


The SDG-6 sessions, part of the 3rd International Conference on Higher Education Institutes' Challenges & Solutions for Sustainable Development Goals 2023, took place from November 3rd to 5th, 2023, in a hybrid mode under the title "Innovations in Water Treatment and Desalination: Sustainable Solutions for Seawater Utilization"

The SDG-6 activities included three key sessions, which featured invited talks, a panel discussion (held on December 4th), and additional invited talks (on December 5th). These sessions were conducted at the Dr. T P Ganesan Auditorium, Mini Hall 1. The event schedule was as follows:

Invited Talks - Morning Session, 4th December 2024

Prof. Paromita Chakraborty, Professor and Head of the Centre for Research in Environment, Sustainability Advocacy, and Climate Change (REACH) at SRM Institute of Science and Technology, commenced the session by welcoming the participants. The plenary session was led by Dr. Daniel Snow, Professor and Director at the University of Nebraska, USA, followed by a series of invited lectures. Speakers included Dr. G. Arthanareeswaran, Professor of Chemical Engineering at NIT Trichy; **Dr. S. R. Marigoudar**, Scientist E at the National Centre for Coastal Research; Dr. Elango Lakshmanan and Dr. Pawan Kumar Labhshetwar, Professors of Civil Engineering at IIT Madras; Dr. Magdalena Urbaniak, Associate Professor at the University of Lodz, Poland; Dr. A. K. Ghosh, Senior Scientist in the Desalination & Membrane Technology Division at Bhabha Atomic Research Centre; and Mr. Pankaj Kumar, National Project Coordinator at UNIDO Regional Office in India. Their presentations provided insights into various international water treatment techniques, emphasizing how effective purification not only improves public health but also protects the environment by reducing pollution and conserving water resources, essential for sustainable water management.







Collective images for SDG 6 events

Panel Discussion "Balancing Life Above and **Below** the Sea" The second session featured a panel discussion titled "Balancing Life Above and Below the Sea" focusing on the interconnection between terrestrial and marine ecosystems. This discussion explored the intersection of SDG 6 (Clean Water and Sanitation) and SDG 14 (Life Below Water), addressing issues such as marine biodiversity, sustainable fisheries, marine protected areas, and the blue economy. The panelists also discussed the impact of terrestrial activities on marine ecosystems and highlighted innovative technologies and community engagement strategies for sustainable ocean and water resource management. The session, moderated by **Dr. Purnima Jalihal**, Scientist G & Head of Energy and Fresh Water at NIOT, and coordinated by Dr. Dharani, Scientist G & Group Head of Marine Biotechnology

Division at NIOT, featured a distinguished panel: **Dr. Phani Kumar** (Scientist G, NIOT), **Dr. P. Sriyutha Murthy** (Scientist E, IGCAR), **Dr. R. Jeyabaskaran** (Senior Principal Scientist, CMFRI), **Dr. Deepak Samuel V** (Scientist E, NCSCM), **Dr. R. Jayakumar** (Principal Scientist, ICAR-CIBA), **Dr. K. Sri Bala Kameswari** (Senior Principal Scientist, CSIR-CLRI), **Dr. Raghu Babu** (Acadmicell Innovations Pvt Ltd), **Dr. D. Ravi Shankaran** (University of Madras), and **Dr. S. Renganathan** (Professor, Anna University). The session provided valuable insights on fostering the convergence of SDG 6 and SDG 14.



Panel discussion on "Balancing life-above and under the sea" moderated by **Dr. Purnima Jalihal**

Key points covered: 1). Ocean Pollution and its Ripple Effects, 2). Sustainable Fisheries and Aquaculture, 3). The Role of Marine Protected Areas (MPAs), 4). Climate Change and Ocean Health, 5). Marine Biodiversity: Challenges and Opportunities, 6). Blue Economy: Sustainable Development at Sea, 7). Community Engagement in Ocean Conservation, 8). Technology and Innovation for Ocean Sustainability, 9). Interconnection between Terrestrial and Marine Ecosystems, and 10). Youth and Policy Advocacy for Ocean Health.

Day 2 - Session 3 on 5th December 2024

Session 3 commenced with a welcome address by **Dr. Paromita Chakraborty**, Professor and Head at REACH, followed by a plenary talk by **Dr. Atul Narayan Vaidya**, Director of CSIR-National Environmental Engineering Research Institute. The session featured invited lectures from several distinguished experts, including **Dr. G. Venkatesan**, Scientist G at NIOT's Energy and Fresh Water Division; **Dr. R. Nagaraj**, Head of EIS & MMS NDDP/BARC, Kalpakkam; **Dr. G. Saravanan**, Senior Scientist at CSIR-NEERI; **Dr. S. Meenakshi**, Senior Professor at Gandhigram Rural Institute; and **Dr. Vladimir Beskoski**, Professor at the University of Belgrade. These presentations provided a platform for discussing government and industrial-level water management initiatives, highlighting the need for responsible, sustainable, and equitable water use to ensure environmental protection and long-term social and economic stability.

Poster and Oral Presentation Competition

A key highlight of the SDG-6 events was the Poster and Oral Presentation competition held on December 3rd and 4th, 2024, from 5:30 PM to 7:00 PM in an online format. Out of 35 participants, 18 oral and 5 poster presentations showcased innovative research in clean water and sanitation. These competitions were instrumental in raising awareness and stimulating discourse on water-related challenges, reinforcing the broader goals of sustainable development.

Followed by overall valedictory program were conducted in which all the convenors, co-convenor, organiser team and prize awardees were facilitated with mementos. Then overall event report was red, followed by vote of thanks to appreciate the effort taken by team for successful completion of this event.