National Communications Academy-Technology, Ghaziabad
Department of Telecommunications
Ministry of Communications
Government of India

Webinar
on
Circular Economy in Telecom Sector
"Transforming Telecom for a Sustainable Future"

24th March 2026, Tuesday (10:45 - 13:00 Hrs.)

Webinar Objective

The objective of the webinar on "Circular Economy in the Telecom Sector: From Linear to Circular – Transforming Telecom for a Sustainable Future" is to provide a comprehensive understanding of circular economy principles and their relevance to the telecom ecosystem. The webinar aims to highlight sustainable design, resource efficiency, e-waste management, lifecycle extension of telecom assets, and responsible recycling practices. It seeks to bring together policy insights, industry best practices, and technological innovations to promote environmentally sustainable, economically viable, and socially responsible Telecom Infrastructure development in India.

Sh. Sandip Chatterjee, Senior Advisor, SERI, and **Sh. Pranshu Singhal**, **Managing Director, Karo Sambhav**, will be the distinguished speakers for the webinar. Sh. Sandip Chatterjee will present on circular network & equipment design, industry examples, global best practices, and designing a circular 5G rollout. Sh. Pranshu Singhal will address the e-waste challenge, extending device & equipment life, circular business models and economic advantages.

The **Target Audience** of the webinar includes officers from LSAs, DoT, TSPs, ISPs, Industry forums, Academia, and other stakeholders.

Inaugural Session (10:45 - 11:15 Hrs.)

Welcome Address	**Sh. Akhilesh Gupta**	DDG (Tx & NGS), NCA-T, Ghaziabad
Keynote Address	**Sh. Arun Aggarwal**	DDG (Satellite), DoT HQ, New Delhi
Inaugural Address	**Sh. Atul Sinha**	DG, NCA-T, Ghaziabad
Vote of Thanks	**Sh. Amit Kumar Chauhan**	Director (Tx & NGS), NCA-T, Ghaziabad

Technical Sessions (11:15 - 13:00 Hrs.)

S. No.	Time (Hrs.)	Name of the Topic	Expert Speaker
1.	11:15 - 12:00	Circular Economy: Designing Circular Infrastructure in Telecom	**Sh. Sandip Chatterjee** Senior Advisor, SERI
2.	12:00 - 12:45	Circular Economy: Device Lifecycle, E-Waste & Circular Business Models	**Sh. Pranshu Singhal** Managing Director, Karo Sambhav
3.	12:45 - 12:55	Question & Answer Session	
4.	12:55 - 13:00	Vote of Thanks	**Sh. Ravi Kumar** AD (Tx & NGS), NCA-T, Ghaziabad

Dignitaries of Inaugural Session

Sh. Atul Sinha
DG, NCA-T, Ghaziabad

Sh. Arun Agarwal
DDG (Satellite), DoT HQ

Sh. Akhilesh Gupta
DDG (Tx & NGS), NCA-T

Sh. Amit Kumar Chauhan
Director (Tx & NGS), NCA-T

Online Platform & Registration

Date & Time: 24th March 2026, Tuesday [10:45 -13:00 Hrs.]
Online Platform: MicrosoftTeams
Link & QR Code to join the Webinar: https://tinyurl.com/Circular-Eco-24th-Mar

Expert Speakers

Dr. Sandip Chatterjee :: Senior Advisor, SERI

Dr. Sandip Chatterjee is Senior Advisor at Sustainable Electronics Recycling International (SERI), USA, Adjunct Professor at IIT, Mandi and Former, Senior Director at Ministry of Electronics and Information Technology. With an experience of more than 35 years as techno-administrator, Research and policy maker, Dr Sandip has established pan-India 22+ Centres of Excellence in emerging technologies like quantum materials, graphene, 2D materials, E-waste and 3D printing etc. He is a global expert on materials, electronic waste, circular economy and resource efficiency, with over 60+ research and review publications, 10+ patents, 5+ book chapters and an extensive public speaking experience of 1000+ engagements. He is the recipient of **President's award in 2013** for his excellency.

Sh. Pranshu Singhal :: Managing Director, Karo Sambhav

Sh. Pranshu Singhal is the Founder and CEO of Karo Sambhav. Armed with 25+ years of work experience, he has worked as Director, Digital Learning for Microsoft and as Head, Sustainability for Nokia. He was conferred **'Social Entrepreneur of the Year 2021 India'** award by the Schwab Foundation, World Economic Forum. Sh. Pranshu is a member of the World Economic Forum Global Future Councils on Responsible Resource Use. In 2024, Sh. Pranshu was appointed as the Vice-Chair of National Working Group-5 of India, International Telecommunication Union - Telecommunication Standardization Sector (ITU-T) Study Group 5. He has a master's in environmental management and policy from International Institute for Industrial Environmental Economics (IIIEE), Sweden.

Organizing Team :: Tx & NGS Division, NCA-T, Ghaziabad

Akhilesh Gupta
DDG (Tx & NGS)

Amit Kumar Chauhan
Director (Tx & NGS)

Ravi Kumar
AD (Tx & NGS)

Sweta Mishra
JTO (Tx & NGS)

Circular Economy in Telecom Sector: Transforming Telecom for a Sustainable Future

- The Circular Economy is a sustainable development model that moves **beyond the traditional "Take–Make-Dispose"** linear approach and promotes a regenerative system where resources are used efficiently, reused, refurbished, remanufactured, and recycled for as long as possible. As per the International Telecommunication Union (ITU-T), Circular Economy in Telecom is formally defined as a system that is **restorative and regenerative by design**, and aims to keep products, components, and materials at their highest utility and value at all times while reducing waste streams.
- India's Telecom Circular Economy Vision is Regenerative, Sustainable, and Inclusive. This vision is **aligned with International Telecommunication Union Connect-2030 Agenda**. The United Nations Sustainable Development Goals (SDGs) – 8, 9, 11, 12, and 13, and the G20 New Delhi Leaders' Declaration. By 2030, successfully achieving circularity in the telecom ecosystem could lead to reduced dependence on virgin materials, formalised reuse and refurbishment markets, energy-efficient networks and data centres, and lower lifecycle costs.
- As India works towards the vision of **Viksit Bharat 2047**, digital infrastructure will play a defining role. A developed India must also be a sustainable and resource-efficient India. Circular economy principles in telecom directly support this national vision by reducing dependency on critical raw materials, improving lifecycle efficiency of digital infrastructure, and creating green jobs and new circular business models.

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