

**GOVERNMENT OF INDIA**  
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**CHANDIGARH**

**National Seminar by SSS-NIBE explores Challenges, Opportunities, and Developments  
in Biomass Supply Chain Management**

**Need to improve demand creation to facilitate development of market-driven  
mechanisms for biomass offtake: Mission Director, SAMARTH, Ministry of Power**

**Need to collectively work on harnessing biomass potential through modern bioenergy  
pathways: Executive Director, Punjab State Council for Science & Technology**

**Chandigarh, September 5, 2024**

A one-day "National Seminar on Biomass Supply Chain Management: Challenges, Opportunities, and Developments" has been organized at MGSIPA Complex in Chandigarh today, September 5, 2024, to understand and address the challenges and opportunities associated with the efficient management of biomass supply chains (BSC) in the country. The seminar has been organized by [Sardar Swaran Singh National Institute of Bio-Energy Technology \(SSS-NIBE\)](#), Kapurthala, an autonomous institution of [the Ministry of New and Renewable Energy](#), Government of India. The seminar seeks to foster collaboration and knowledge exchange to facilitate the development of cost-effective and efficient biomass supply chains to support India's transition to a circular bio-economy. It may be recalled that promotion of a circular bioeconomy is one of the goals behind the BioE3 (Biotechnology for Economy, Environment and Employment) Policy for Fostering High Performance Biomanufacturing, [approved by the Union Cabinet on 24<sup>th</sup> August, 2024](#) and [released by the Union Science & Technology Minister on 31<sup>st</sup> August, 2024](#).

The National Seminar on Biomass Supply Chain Management 2024 brought together government officials, industry representatives, entrepreneurs, policy makers and researchers to share insights, experiences, and best practices in biomass supply chain management. The Biomass Supply Chain (BSC) in India which currently is largely unorganized, is an area that needs urgent attention, as bioenergy assumes a vital role in meeting our future energy needs. Efficiently managed supply chains are essential, particularly for addressing issues like stubble management and in prevention of farm fires. The seminar aims to highlight the need and particular relevance of efficient biomass supply chains for the success of bioenergy programs in the country. The seminar aims to also help spread awareness among the relevant stakeholders about different policies of the government in the bioenergy and clean environment space, as well as on new business and technological supply chain models. The seminar also seeks to gather and diffuse learnings from successful case studies in green and sustainable supply chains.

The event was inaugurated by the Chief Guest and Mission Director, [SAMARTH \(Sustainable Agrarian Mission on use of Agri-Residue in Thermal Power Plants\)](#), Ministry of Power, Government of India, Shri Satish Upadhyay; Guest of Honour and Executive Director, Punjab

State Council for Science & Technology (PSCST), Government of Punjab, Shri Pritpal Singh; and Director General, SSS-NIBE, Dr. G. Sridhar.

Director General, MGSIPA, Shri Anirudh Tewari, with his extensive experience in stubble management policies and practices, graced the event and shared his valuable insights with the participants. He also highlighted important challenges which need to be overcome for enhancing biomass utilization in the country.

### **“Need to view Biomass Supply Chain Management from Demand Side”**

In his talk, the Chief Guest and Mission Director, SAMARTH, Shri Satish Upadhyay, highlighted that there is a need to view supply chain management from the demand-side and spoke on the importance of enhancing demand creation for the development of market-driven mechanisms for the offtake of biomass. He also mentioned that biomass utilisation has critical environmental and social benefits for our country. He informed the participants about the successful work being done by the SAMARTH Mission for biomass co-firing and how it is increasing utilisation of biomass in power generation.



### **“Need to use Modern Bioenergy Pathways to harness potential of Biomass”**

Guest of Honour and Executive Director, PSCST, Shri Pritpal Singh highlighted that availability of space for storage of biomass, supply to industry and management of leakage are some challenges which need to be addressed. He stressed that we should collectively work on harnessing the potential of biomass, and on utilising it through modern bioenergy pathways, rather than wasting it. He said that there is a need to make biomass available at the minimum possible cost, so that it is economically viable for industry.



### **“Supply Chain Management is Critical for Success of Bioenergy Programmes”**

Director General, SSS-NIBE, Dr. G. Sridhar highlighted the relevance and importance of biomass supply chains in the country. He also apprised the participants about the research SSS-NIBE is doing in the field of bio-energy, for advancement of the sector. He stressed how supply chain management is critical for the successful implementation of bioenergy programs in the country.



Mr Maganbir Singh from PSCST delivered a talk on paddy challenge in the state of Punjab. He highlighted the activities of PSCST, the current paddy utilisation pathways in Punjab, the challenges faced in its utilisation and opportunities available to use it as a resource.

Dr. Banafsha from SSS-NIBE presented an overview of the supply chain scenario, setting the context for further deliberations during the seminar. The vote of thanks for the inaugural session was delivered by Scientist-D, SSS-NIBE, Dr. Ashish Bohre.

The day-long seminar will have sessions exploring various facets of the challenges and opportunities associated with the efficient management of biomass supply chains in the country. The sessions include on "*Biomass Supply Chains and an overview of Government of India's Policies for the Bioenergy Sector*" by Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE), "*The Paddy Challenge in the state of Punjab*" by Punjab Energy Development Agency and Punjab Pollution Control Board, "*Biomass Supply Chain Management: Challenges and Opportunities in India*" by IOCL, "*Key strategies and best practices for improving supply chain viability*" by Punjab Renewable Energy Systems Private Limited, "*Innovative digital solutions and business models for BSCM and biomass price trends with time*" by BioFuelCircle, and "*Modelling of Biomass Supply Chains: A Research Perspective*" by IIT Roorkee. The seminar also has Case Studies and Practical Field Learnings, on Pellets and Briquettes by SAMARTH, on CBG by Ever Enviro, on Biomass Power by Sukhbir Agro and on Ethanol and Cogeneration by Cogen Association of India. The seminar will also have a panel discussion on *Biomass Supply Chain Management: Challenges and the Way Ahead*, followed by Concluding Remarks by DG, SSS-NIBE.



## About SSS-NIBE

Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE) is an autonomous institute of the Ministry of New and Renewable Energy (MNRE), Government of India. The Institute is an R&D Institute with a mandate to focus on Bio-energy and develop innovative technologies. The institute's vision is to carry out state-of-the-art R&D covering the entire spectrum of bioenergy leading to commercialization and their integration with other renewable energy technologies. SSS-NIBE actively pursues R&D in the areas including but not limited to biomass pellets / briquettes, torrefaction, biochar, biomass mapping and resource assessment, biogas, bio-hydrogen, biodiesel, bioethanol, fuel cell, biomass gasification and biomass cookstoves.

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