



Knowledge Exchange Programme on Rice Straw to Biogas Technology in India



Background

The Ministry of New and Renewable Energy (MNRE), Govt of India, is supporting programmes for promoting biogas as a clean fuel for domestic cooking, off-grid, grid power generation and BioCNG for transport applications. Biofuels from agricultural waste are emerging as a potential area not only for biogas generation but also as climate change concerns in view of recent environmental risk due to burning of paddy straw in North India states such as Haryana, Punjab and Uttar Pradesh.

German RETech Partnership together with Swaran Singh National Institute of Bio-Energy, Punjab (SSS-NIBE) and other partners have organised a virtual stakeholder workshop to understand the possibilities of collaborations between Indian and German stakeholders in the area of rice straw processing to BioCNG. This workshop will also inform about the upcoming Indo-German Science & Technology Centre (IGSTC) 2+2 call on Waste2Wealth.

Objectives

The main objective of the exchange programme is to focus on the topic of processing of Rice Straw to BioCNG. The participants will understand the ongoing developments on RICE STRAW



to BioCNG initiative and debate possible collaborations, technical solutions to resolve issues related to pre-processing of rice straw, digester plant design, liquid digest, gas upgradation and operation & maintenance of such plants. The workshop will also help to network and identify potential partners to collaborate and participate in the IGSTC 2+2 Waste2Wealth funding program.

4th August, 2021 – 10:00 to 12:00 CET / 13:30 to 15:30 IST – Virtual Workshop

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| 15 minutes | Welcome speech - Mr. Dinesh Jagdale - Joint Secretary - Ministry of New and Renewable Energy, Government of India, Director General - Swaran Singh National Institute of Bio-Energy, Punjab |
| 15 minutes | Introduction to IGSTC 2+2 Call Dr. Lalitha PV – Chief Scientific Officer - The Indo-German Science & Technology Centre (IGSTC) |
| 15 minutes | Rice Straw processing to BioGas – Opportunities & Technical barriers in India Mr. Subodh Kumar – Advisor - Indian Oil Corporation Limited Former Executive Director (Petrochemicals, Alternate Energy & Sustainable Development) at Indian Oil, |
| Open Forum for Discussion | Pre-Processing of Rice Straw - Technical Challenges Mechanical / Biological Processes? AD Challenges for processing of Rice straw? Treatment of Liquid digest to valuable manure? BioGas Upgradation – Need for solutions in dealing with Sulphur? How can Indo-German cooperation work? Moderator – Mr. Brijesh Patel , Head of working Group – India at German RETech Partnership. e.V |
| 12.00 | End of Session |

About German RETech Partnership e.V

German RETech Partnership is the network of German companies and institutions in the waste management and recycling industry for the export of innovative technologies and the transfer of know-how. RETech consolidates companies and institutions from the entire area of the waste management and recycling industry from collection and logistics to treatment and marketing as well as consultation, planning, research and teaching under one roof. The RETech activities are supported by an advisory body in which the BMU, the BMBF, the BMWi and BMZ, UBA, GIZ, KfW as well as the BDE associations, the bvse, VKU, VAK and VDMA cooperate. Due to this network the RETech platform provides a unique opportunity for supporting the establishment of a well-ordered waste management industry, improving the requirements significantly for the export of German waste management and recycling technology.



German RETech Partnership
Recycling & Waste Management
Made in Germany

About Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE)

Sardar Swaran Singh National Institute of Bio-Energy is an autonomous Institution of the Ministry of New and Renewable Energy, Govt. of India. The vision of the Institute is to carry out state-of-the-art research and development, demonstration, testing and standardization activities, including human resource development at all levels, post-doctoral research and research for wide promotion of bioenergy in the country. SSS-NIBE is located in the state of Punjab on Jalandhar-Kapurthala Road, 18 km away from Jalandhar city towards Kapurthala. The Institute is located in between Punjab Technical University and Pushpa Gujral Science City. Jalandhar is well connected both by railways and roadways with the nearest airport at Amritsar.

About Indo-German Science & Technology Centre (IGSTC)

The Indo-German Science & Technology Centre (IGSTC) was established to facilitate Indo-German R&D networking through substantive interactions among government, academia/research system and industries, thus fostering innovation for overall economic and societal developments in both the countries. Through its flagship program “2+2 Mode of Partnership”, IGSTC intends to catalyse innovation centric R&D projects by synergising the strength of research/academic institutions and public/private industries from India and Germany. IGSTC is registered in India as a “society” under Societies Registration Act. The Centre is guided by a Governing Body comprising of equal number of members from India and Germany with representation from government, academia and industry.

IGSTC envisions to

- Advance industrial research partnership with mutuality of interest and respect
- Create platform for cross fertilization of ideas
- Develop knowledge networks for industrial sectors to enhance competitiveness
- Establish joint knowledge pools to address global challenges
- Serve as a nerve centre to promote Indo-German technology partnership

Free Participation and Registration – For participation and registration please send your request to brijesh.patel@retech-germany.net