

Maire centre for research on waste recycling and circular economy

 Karnataka, Surathkal

WHAT

- Maire Center for Research on Waste Recycling and Circular Economy created at the National Institute of Technology, Karnataka – Surathkal (NITK) campus by MAIRE group through Tecnimont Private Limited
- To provide scholarships to aspiring engineering students (by income, merit and gender balance) in various streams, this initiative began from the year 2021
- Financial support includes scholarships and contingency grant for Bachelor of Technology (B. Tech) Master of Science (M. Sc.), Master of Technology (M. Tech), Doctor of Philosophy (Ph.D.) qualified, Pre-Final and Final year B.Tech students of NITK, and Final year M.Tech students of NITK

WHY

- Support in a structured way the higher education and research on two of main topics of energy transition
- Partnering with the top engineering institutes to exchange knowledge base between the Group and the Institute

PARTNERSHIP

National Institute of Technology Karnataka (NITK) Surathkal

The National Institute of Technology Karnataka (NITK) Surathkal, one of the premier institutions in India, supports research and development activities through its quality technological education. It offers 9 Bachelors, 28 Masters, and Doctoral Degree programmes. NITK is governed by the Board of Governors and is ranked 13th among top engineering institutions in India, as per NIRF ranking in 2020. It has partnered with Tecnimont for providing scholarships to students and a bio-waste recycling pilot plant at its campus.

SDG's





ABSTRACT

Research Center was established by Tecnimont Private Limited to promote Circular Economy amongst the students and provide them a platform to conduct research studies around the Energy Transition and Green Hydrogen Technologies. TCMPL had also established a 500kg biogas plant which was commissioned since 2019. This plant processes approx. 9000 kg of biowaste accumulated from canteen every month, and generates LPG gas which is used in NITK canteen for cooking. There is a significant increase seen in the biogas generated every month as a result of the scholar's research study been conducted to improve the quality of Biogas. Students from B.Tech and M.Tech belonging to Chemistry and Mechanical department participate in conducting research. This plant has been a location for visitors/students from various schools/degree colleges/ SHG's/ NGO's and government officials to conduct educational tour to understand the functioning of the plant.

