RENEWABLE BIOHYDROGEN (H2) AND PLATFORM CHEMICAL FROM BIOGENIC (SOLID /LIQUID) WASTE

INTRODUCTION

The process aimed to produce hydrogen and fatty acids from waste/wastewater apart from waste remediation. The technology is a standalone process for hydrogen production or as a unit operation in ETPs. Hydrogen can be used in automobile (fuel), chemical industry and oil refining process. By-product can be used as platform chemicals after separation or as feedstock for production secondary bio-based products. The technology can be embedded with existing waste remediation units/ETPs.

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- It is a sustainable and renewable technology and involves simultaneous remediation with resource recovery.
- It is focal technology for production of Biobased products from waste
- It supports bio refinery, circular bio economy and hydrogen economy.
- Technology is intended to produce Biohydrogen from waste/wastewater through acido-genic fermentation apart from its remediation that can be used in Energy carrier for automobile sector

