US-India Consortium for Development of Sustainable Advanced Lignocellulosic Biofuel Systems

Work Package 1


Bamboo


Sorghum


Pearl millet

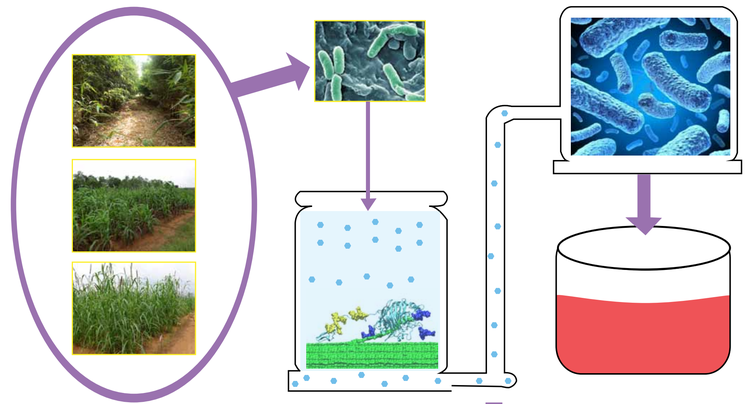

Switchgrass

To develop high biomass yielding varieties of Bamboo, Sorghum & Pearl millet in saline and marginal land of Gujarat and Madhya Pradesh

Abellon | ICRISAT | DSR | RVSKVV | TNAU | MU | UF | Show Me Energy

Work Package 2

Stage Of Converting Biomass To Biofuel.



To develop versatile and efficient technology for conversion of biomass to biofuel with minimum GHG emission

IICT | JNTU | IIT-M | IIT- D
HPCL | UF
Green Technologies

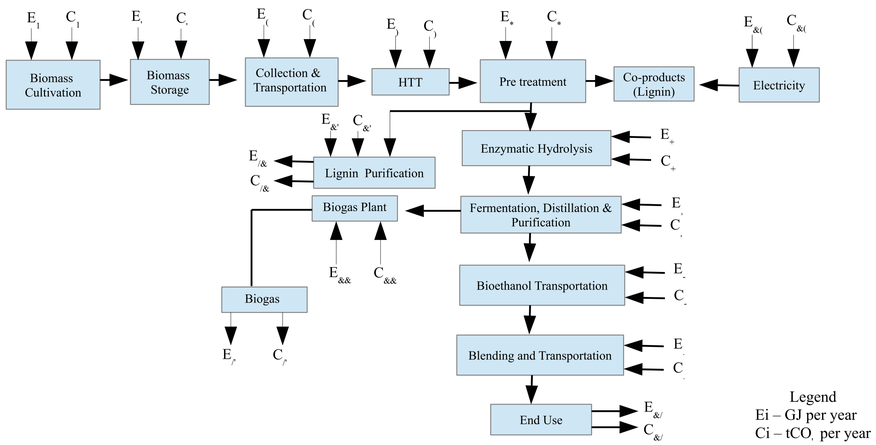
Work Package 3

OBJECTIVE 5
Develop standards & certification protocols

Task-1: Analyze existing biofuel standards & certification

Task-2: Develop practical and custom design standards & certification protocols for biofuel and bio-products of this project

OBJECTIVE 6
Energy, emissions, & economic analysis



Task-1: Energy and emissions sensitivity report for different feedstock base biofuel production systems

Task-2: Assess economic feasibility of bio-fuels and bio-products

Task-3: Identify cost-effective strategies for long-term market growth for bio-fuels

Task-4: Assess drivers and barriers for non-food based biofuel adoption

Task-5: Assess private production model for advanced bio fuel feed stocks in India

OBJECTIVE 7
Supply chain management analysis

Feed stock production	Feed stock logistic	conversion	Distribution	End Users
- Feed stock development - feed stock production	- Harvesting & collection -storage - pre-processing - transportation	- Biochemical -Thermochemical - Fermentation	- Trasportation - Storage - Dispensing	- Locomotive - off road vehicles

Task-1: Analysis of supply chain aspects affecting the production and sustainability of bio-fuels

Task-2: Identification of drivers and barriers impacting the marketability and distribution of nonfood biomass based biofuels

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