

LIST OF ABBREVIATIONS

MJ	Mega Joule
GHG	Green House Gas
EISA	Energy Independence and Security Act
RFS	Renewable Fuel Standard
EC	European Commission
GoI	Government of India
IPCC	Intergovernmental Panel on Climate Change
NER	Net Energy Ratio
NEV	Net Energy Value
EPA	Environmental Protection Agency
RED	Renewable Energy Directive
MMT	Million Metric Tonne
MMPA	Million Metric Tonne Per Annum
EBP	Ethanol Blending Programme
GWP	Global Warming Potential
GDP	Gross Domestic Product
LCI	Life Cycle Inventory
LCIA	Life Cycle Impact Assessment
LUC	Land Use Change
iLUC	Indirect Land Use Change
EU	European Union
US	United States
UK	United Kingdom
RTFO	Renewable Transport Fuels Obligation
RFS	Renewable Fuel Standard
CARB	California Air Resources Board
LCFS	Low Carbon Fuel Standard
NEB	Net Energy Balance

FFV	Flexible Fuel Vehicles
DiSC	Direct Saccharification Of Culms
CaCCO	Calcium Capturing by Carbonation
RT-CaCCO	Room Temperature CaCCO
VKT	Vehicle Kilometer Travelled
DA	Dilute Acid
SE	Steam Explosion
AFEX	Ammonia Fiber Explosion
AH	Auto Hydrolysis
ISO	International Organization For Standardization
ALCA	Attributional Life Cycle Assessment
CLCA	Consequential Life Cycle Assessment
LCC	Life Cycle Costing
FU	Functional Unit
MJ	Mega Joule
EP	Eutrophication Potential
AP	Acidification Potential
POCP	Photo Chemical Oxidation Creation Potential
NR	Northern Region
WR	Western Region
MA	Mass Allocation
EA	Energy Allocation
MPA	Market Price Allocation
NSI	National Sugar Institute
VSI	Vasantdada Sugar Institute
IOCL	Indian Oil Corporation Limited
LCEE	Life Cycle Energy Efficiency
FER	Fossil Energy Ratio
DA	Dilute Acid
SE	Steam Explosion

NEB	Net Energy Balance
AFEX	Ammonia Fiber Explosion
NREL	National Renewable Energy Laboratory
SGR	Straw to Grain ratio
SS	Stainless Steel
WIS	Water Insoluble Solids
FPU	Filter Paper Unit
PSA	Pressure Swing Adsorption
LHW	Liquid Hot Water
NMHC	Non Methane Hydrocarbon
TPM	Total Particulate Matter
KT	Kilo Tonne
LPG	Liquified Petroleum Gas
AF	Allocation Factor
SHTD	Storage Handling Transport Distribution
AD	Anaerobic Digester