List of Abbreviations and Acronyms

ABRI Australian Biofuels Research Institute

ADB Asian Development Bank

AEDP Alternative Energy Development Plan

AFTA ASEAN Free Trade Area

ANRE Agency for Natural Resources and Energy

APEC Asia-Pacific Economic Cooperation

Aprobi Biofuels Producers Association of Indonesia

ARENA Australian Renewable Energy Agency
ASEAN Association of Southeast Asian Nations
ASTM American Society for Testing and Materials

ATIGA ASEAN Trade in Goods Agreement
B1 Mix of 1% biodiesel and 99% diesel
B2 Mix of 2% biodiesel and 98% diesel
B5 Mix of 5% biodiesel and 95% diesel
B10 Mix of 10% biodiesel and 90% diesel
B20 Mix of 20% biodiesel and 80% diesel
B25 Mix of 25% biodiesel and 75% diesel

B100 100% biodiesel

BAA Biofuels Association of Australia

BANZ Bioenergy Association of New Zealand

BAU business-as-usual BDF biodiesel fuel bioethanol

BPPT Agency for the Assessment and Application of

Technology, Indonesia

CO2 carbon dioxide

CAAC Civil Aviation Administration of China

CAPEX capital expenditure

CCS carbon capture and storage CCT clean coal technology

CDM Clean Development Mechanism

CEPO Clean Energy Program Office, Singapore

CERP Clean Energy Research Program
CIF common intermediate format

CME coco methyl ester

CNG compressed natural gas

CNO coconut oil CO2 carbon dioxide

CP commonwealth preferences

CPO crude palm oil

DEDE Department of Alternative Energy Development

and Efficiency, Ministry of Energy of Thailand

DEMR Ministry of Energy and Mineral Resource
DME Energy Self-Sufficient Village Program
DOEM Department of Environment of Malaysia

DOE Department of Energy, Philippines

DOST Department of Science and Technology,

Philippines

Fuel mixture of 3% ethanol and 97% gasoline
E5 Fuel mixture of 5% ethanol and 95% gasoline
E10 Fuel mixture of 10% ethanol and 90% gasoline
E15 Fuel mixture of 15% ethanol and 85% gasoline
E20 Fuel mixture of 20% ethanol and 80% gasoline
E25 Fuel mixture of 25% ethanol and 75% gasoline
E85 Fuel mixture of 85% ethanol and 15% gasoline

EAS East Asia Summit

ECTF Energy Cooperation Task Force

EFB empty fruit bunch

EFTA European Free Trade Association

EIPO Energy Innovation Program Office, Singapore

EMA Energy Market Authority, Singapore

EMM EAS Energy Ministers Meeting

EPA.US Environmental Protection Agency of United States

EPA Economic Partnership Agreement

EPPO Energy Policy and Planning Office, Thailand

ERIA Economic Research Institute for ASEAN and East

Asia

ESP WG Energy Saving Potential Working Group of ERIA

ETBE ethyl tertiary butyl ether

EU European Union EV electricity vehicle

FAME fatty acid methyl esters

FAO Food and Agriculture Organization of the United

Nations

FFV flexible fuel vehicle

FIT feed-in tariff
F/S feasibility study

FTA Free Trade Agreement

GAIN Global Agriculture Information Network

GDP gross domestic product

GEN 2 second-generation biofuels

GHG greenhouse gas

GMAC Genetic Modification Advisory Committee
GNS Institute of Geological and Nuclear Science

GOI Government of Indonesia

GSP Generalized System of Preferences

GST goods and services tax

GSTP Global System of Trade Preferences

GTA Global Trade Atlas

HS Harmonised Commodity Description and Coding

System

HSD high-speed diesel oil

ICRIER Indian Council for Research on International

Economic Relations

IEA International Energy Agency

IEEJ The Institute for Energy Economics, Japan IPCC Intergovernmental Panel for Climate Change ITDI Industrial Technology Development Institute

ITH income tax holiday

JARI Japan Automobile Research Institute

JBEDC Japan Bio-Energy Development Corporation

JDI Japan Development Institute

JETRO Japan External Trade Organization

JOil (Singapore) Pte. Ltd.

JPJ Road Transport Department, Malaysia

KEN National Energy Policy

KKPE Credit for Food and Energy Security

KMUTNB King Mongkut's University of Technology North

Bangkok

KPEN-RP Bio-energy Development and Revitalization of

Plantations

KPPK Ministry of Plantation Industries and Commodities,

Malaysia

Lao PDR Lao People's Democratic Republic
LIPI Indonesian Institute of Sciences
LIRE Lao Institute for Renewable Energy

LLC limited liability company
LNG liquefied natural gas
LPG liquefied petroleum gas

MAA Malaysian Automotive Association

MAFF Ministry of Agriculture, Forestry and Fisheries,

Japan

MAI Ministry of Agriculture and Irrigation, Myanmar MEWR Ministry of the Environment and Water Resources,

Singapore

METI Ministry of Economy, Trade and Industry, Japan

MFN most favoured nation

MIC Myanmar Investment Committee MOE Ministry of Energy, Myanmar

MOMG Malaysian Oleochemical Manufacturers Group

MPOB Malaysia Palm Oil Board MPP minimum purchase price

MS methyl esters (Malaysian Standard on Biodiesel)

MSP minimum support price

MTI Ministry of Trade and Industry, Singapore

NBB National Biofuel Board, Philippines
NBPM National Biofuel Policy, Malaysia
NBPP National Biofuel Policy, Philippines

NCCC National Climate Change Committee, Singapore NDRC National Development and Reform Commission,

China

NEA National Environment Agency, Singapore

NOLCO net operating loss carry over NPC National Power Corporation

NSTDA National Science and Technology Development

Agency

NZEECS New Zealand Energy Efficiency and Conservation

Strategy 2011-2016

NZES New Zealand Energy Strategy, 2011-2021 NZFOA New Zealand Forest Owners Association

OAM Office of Agricultural Economics
OCSB Office of Cane and Sugar Board

OECD Organisation for Economic Co-operation and

Development

OMC oil marketing companies

PCA Philippine Coconut Authority

PCAMRD Philippine Council for Aquatic and Marine

Research and Development

PCIERD Philippine Council for Industry and Energy

Research and Development

PCRDF Philippine Coconut Research Development

Foundation PEN, Blueprint for National Energy

Plan; PEN 2005 ~ 2025

PETRONAS Petroliam Nasional Berhad
PI Presidential Instruction

PLN Perusahaan Umum Listrik Negara

PM particulate matter
PME palm methyl esters

PMK Regulation of the Ministry of Finance

PNOC- Philippine National Oil Company-Energy

ERDC Research and Development Center

PNS Philippine National Standards

PPKS Centre for Oil Palm Research, Medan

PPO pure plant oil

PPP public-private partnership
PSI pollutant standards index
PSO public service obligation

PTC Philippine Tariff Commission
PTT Petroleum Authority of Thailand

PV Oil PetroVietnam Oil

RA Republic Act (of the Philippines)
RBD refined, bleached and deodorised

R&D research and development

RD&D research, development, and demonstration

RE renewable energy

REDP Renewable Energy Development Plan

RFS renewable fuel standards

RITE Research Institute of Innovative Technology for the

Earth

RPS renewable portfolio standards

SIRIM Standards and Industrial Research Institute of

Malaysia

SNI Standar Nasional Indonesia

SO2 sulfur dioxide STL shale-to-liquids

SVO straight vegetable oil SWG sub-working group TBO tree-borne oilseeds

TCPPA Technical Committee on Petroleum Products and

Additives

TimNas National Team for Biofuels Development

BBN

TISTR Thailand Institute of Scientific and Technological

Research

TLL Temasek Life Science Laboratory

TPES total primary energy supply

UAC Universal Absorbents and Chemicals

UGR91 Gasoline Octane 91

UPV University of the Philippines at Visayas
UPLB University of the Philippines in Los Banos

U.S./US United States

USDA United States Department of Agriculture

VAT value-added tax

VPI Vietnam Petroleum Institute

WG working group

WTO World Trade Organization

UNIT

bbl barrel
GW gigawatt
ha hectare
kg kilogram
kL kilolitre

ktoe thousand tonnes of oil equivalent

kW kilowatt

kWh kilowatt-hour

L litre

ML million litre

Mtoe million tonnes of oil equivalent

MtC million tonnes carbon (may be converted to million

tonnes of CO2 by multiplying by 44/12)

MW megawatt

MWh megawatt-hour NCV net calorific value

PJ petajoules

tC tonnes of carbon

toe tonnes of oil equivalent

TWh terawatt-hour

μg/m3 microgram/cubic meter

CURRENCY

A\$ Australian dollar
NZ\$ New Zealand dollar
RM Malaysian ringgit
Rp Indonesian rupiah

Rs Indian rupee

S\$ Singapore dollars
THB Thailand baht
US\$ US dollar

VND Vietnamese dong