

Abbreviations and Acronyms

AHEAD	Advance Hydrogen Energy Chain Association for Technology Development
BAU	business-as-usual scenario
BOG	boil-off gas
CAPEX	capital expenditure
CCGT	combined cycle gas turbine
CCS	carbon capture and storage
CCUS	carbon capture utilisation and storage
CO ₂	carbon dioxide
EAS	East Asia Summit
FCB	fuel cell bus
FCEV	fuel cell electric vehicle
FCT	fuel cell train
FCV	fuel cell vehicle
GHG	greenhouse gas
H ₂	hydrogen
HRS	hydrogen refuelling station
HySTRA	Hydrogen Energy Supply-Chain Technology Research Association
IEA	International Energy Agency
KHI	Kawasaki Heavy Industries, Ltd
kWh	kilowatt-hour
LCA	life-cycle analysis
LCOE	levelised cost of electricity
LH ₂	liquefied hydrogen
LNG	liquefied natural gas
MCH	methylcyclohexane
MESTECC	Ministry of Energy, Science, Technology, Environment and Climate Change
METI	Ministry of Economy, Trade, and Industry, Japan
NEDO	New Energy and Industrial Technology Development Organization
NH ₃	ammonia
Nm ³	normal cubic metre
OECD	Organisation for Economic Co-operation and Development
OPEX	operating expense
PEM	polymer electrode membrane
PFCV	passenger fuel cell vehicle
PV	photovoltaic/photovoltaics
PSA	Pressure Swing Adsorption

R&D	research and development
SOFC	solid oxide fuel cell
TCO	total cost of ownership
toe	tonnes of oil equivalent
TPES	total primary energy supply
US	United States
US\$	United States dollar
vRE	variable renewable energy
WG	working group
WTW	well-to-wheel
¥	Japanese yen
ZEV	zero-emission vehicle