

Acknowledgement

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Abbreviations

ACC	Advanced Chemistry Cells
AIT	Austrian Institute of Technology
AMBIC	Advanced Materials Battery Industrialisation Centre
APC	Advanced Propulsion Centre
ASPIRE	Accelerating Smart Power and Renewable Energy
ATF	Automotive Transformation Fund
BBB	British Business Bank
BESS	Battery Energy Storage System
BIS	Bureau of Industrial Standards
BMS	Battery Management System
BOS	Balance-of-System
BT	Billion Tonne
CATL	Contemporary Amperex Technology Company Limited
CEA	Central Electricity Authority
CEIF	Clean Energy Innovation Facility
CEEW	Council on Energy, Environment and Water
DERC	Delhi Electricity Regulatory Commission
DESNZ	Department for Energy Security and Net Zero
DHI	Department of Heavy Industry
DoD	Depth of Discharge
DPIIT	Department for Promotion of Industry and Internal Trade
DRC	Democratic Republic of Congo
DSM	Demand Side Management
DST	Department of Science and Technology
EoDB	Ease of Doing Business
EOL	End of Life
EPC	Engineering Procurement Construction
ESO	Energy Storage Obligation
ESS	Energy Storage System
EV	Electric Vehicle
e-2W	Electric Two Wheelers
FAME	Faster Adoption and Manufacturing of Electric and Hybrid Vehicles
FBC	Faraday Battery Challenge
FCDO	Foreign Commonwealth and Development Office
FDRE	Firm and Dispatchable Renewable Energy
FY	Financial Year

GESI	Gender Equality and Social Inclusion
GHG	Green House Gas
GoI	Government of India
GW	Giga Watt
GWh	Giga Watt Hour
HVM	High-Value Manufacturing
IEA	International Energy Agency
IIT	Indian Institute of Technology
IISER	Indian Institute of Science Education and Research
IoT	Internet of Things
JPY	Japanese Yen
kg	Kilo gram
kT	Thousand Tonne
kW	Kilo Watt
kWh	Kilo Watt Hour
LCO	Lithium Cobalt Oxide
LFP	Lithium Iron Phosphate
LIB	Lithium-Ion Battery
LCoS	Levelised Cost of Service
LODES	Longer Duration Energy Storage Demonstration
MNRE	Ministry of New and Renewable Energy
MoP	Ministry of Power
MOU	Memorandum of Understanding
MT	Million Tonne
MWh	Mega Watt Hour
MW	Mega Watt Hour
NCA	Nickel Cobalt Aluminium
NEDO	New Energy and Industrial Technology Development Organisation
NESFF	National Electrification Skills Framework and Forum
NMC	Nickel Manganese Cobalt
NSDC	National Skill Development Corporation
PBA	Prussian Blue Analogues
PCS	Power Conversion System
PHS	Pumped Hydro Storage
PLI	Production Linked Incentive
PV	Photovoltaic
R&D	Research and Development
RE	Renewable Energy
RPO	Renewable Purchase Obligation
RTC	Round-The-Clock
SIB	Sodium-Ion Battery

TCA	Trade and Cooperation Agreement
TEA	Transforming Energy Access
TWh	Terra Watt Hour
UK	United Kingdom
UKBIC	United Kingdom Battery Industrialisation Centre
UKIB	United Kingdom Infrastructure Bank
UKRI	United Kingdom Research and Innovation
UPS	Uninterrupted Power Supply
US	United States
UT	Union Territories
VGF	Viability Gap Funding
VRE	Variable Renewable Energy
Wh	Watt Hour
WMG	Warwick Manufacturing Group

Executive Summary

