

# LIST OF ABBREVIATIONS

ADB	Asian Development Bank
AFD	Agence Française de Développement
BECCS	Bioenergy with Carbon Capture and Storage
BGR	Brown Growth
BPD	Breusch-Gagan-Godfrey
BRI	Belt Road Initiative
BTH	Beijing-Tianjin-Hebei
CA	Central Asia
CAP	Capital Formation
CARS	Central Asian Republics
CAREC	Central Asian Regional Economic Cooperation
CCS	Carbon Capture and Storage
CE	Carbon Emissions
CEP	Circular Economy Practices
CS-ARDL	Cross-Section Autoregressive Distributed Lag
CSD	Cross-Section Dependency
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2e</sub>	Carbon Dioxide Equivalent
COAL	Coal Prices
CO	Conference of the Parties
CPEC	China-Pakistan Economic Corridor
CPPA	Central Power Purchasing Agency
CPS	Country Partnership Strategy
CUSUM	Cumulative Sum
DEA	Data Envelopment Analysis
DIG	Digitalization
DISCO	Efficiency of Distribution Company
GENCO	Public Power Generation Company
EKC	Environmental Kuznets Curve
ENP	Energy Prices
EPD	Environmental Protection Department
ESG	Environmental, Social, and Governance
EU	European Union
EU CBAM	European Union Carbon Border Adjustment Mechanism
FIT	Feed-in Tariff
FRED	Federal Reserve Economic Data
FTA	Free Trade Agreement
GAS	Natural Gas Prices
GDP	Gross Domestic Product
GHG	Greenhouse Gas
GSCM	Green Supply Chain Management

GSP  
 GW  
 GG  
 GGR  
 GNI  
 GTFP  
 HC  
 HS  
 ICT  
 IEA  
 IERU  
 IFC  
 INDCs  
 INS  
 IPCC  
 IRENA  
 JICA  
 KASE  
 kg  
 kWh  
 LAB  
 LM  
 MW  
 mmt  
 Mtoe  
 MDB  
 MOE  
 MOWP  
 MPI  
 MRTD  
 MUB  
 NARDL  
 NC  
 NDC  
 NDCs  
 NR  
 NTDC  
 NZE  
 OLS  
 PM2.5  
 PBC  
 PBL  
 PCA  
 Generalized Scheme of Preferences  
 Gigawatts  
 Green Growth  
 Green growth  
 Gross National Income  
 Green Total Factor Productivity  
 Human Capital  
 Harmonized System  
 Information Communication Technologies  
 International Energy Agency  
 Implementation and Economic Reforms Unit  
 International Finance Corporation  
 Intended Nationally Determined Contributions  
 Institutions  
 Intergovernmental Panel on Climate Change  
 International Renewable Energy Agency  
 Japan International Cooperation Agency  
 Kazakhstan Stock Exchange  
 Kilogram  
 Kilowatt Hour  
 Labor employed  
 Lagrange Multiplier  
 Megawatt  
 Million Metric Tons  
 Million Tons of Oil Equivalent  
 Multilateral Development Bank  
 Ministry of Environment  
 Ministry of Water and Power  
 Malmquist Productivity Index  
 Ministry of Road and Transport Development  
 Municipality of Ulaanbaatar  
 Nonlinear Autoregressive Distributed Lag  
 Natural Capital  
 Nationally Determined Contribution  
 Nationally Determined Contributions  
 Natural resources  
 National Transmission & Dispatch Company  
 Net-Zero Emission  
 Ordinary Least Square  
 Particulate Matter  
 Pakistan Business Council  
 Policy-Based Loan  
 Principal Component Analysis  
 Productive Capacity Index

PCI  
 PJ  
 PRC  
 PRISMA  
 PS  
 PTA  
 RBV  
 R&D  
 REE  
 REC  
 RESET  
 RET  
 SC  
 SD  
 SDG  
 SOE  
 SOP  
 SSCI  
 toe  
 TDAP  
 TRP  
 TTFS  
 TWh  
 VIF  
 WDI  
 WoS  
 UN  
 UNCTAD  
 UNEP  
 UNDP  
 UNESCAP  
 UNFCC  
 UN SSE  
 US  
 USA  
 USAID  
 USD  
 USSR  
 VOC  
 WTO

Petajoule  
 People's Republic of China  
 Preferred Reporting Items for Systematic Reviews and Meta-Analyses  
 Private Sector  
 Preferential Trade Agreement  
 Resource-Based View  
 Research and Development  
 Rare Earth Elements  
 Renewable Energy Consumption  
 Regression Equation  
 Specification Error Test  
 Renewable Energy Transition  
 Structural change  
 Sustainable Development  
 Sustainable Development Goal  
 State-Owned Enterpris  
 Sustainable Organizational Performance  
 ton of oil equivalent  
 Trade Development Authority Pakistan  
 Transport  
 Transport and Trade Facilitation Strategy  
 Terawatt Hours  
 Variance Inflation Factor  
 World Development Indicators  
 Web of Science  
 United Nations  
 United Nations Conference on Trade and Development  
 United Nations Environment Programme  
 United Nations Development Program  
 United Nations Economic and Social Commission for Asia and the Pacific  
 United Nations Framework for Climate Change  
 United Nations Sustainable Stock Exchanges  
 United States  
 United States of America  
 U.S. Agency for International Development  
 United States Dollar  
 Union of Soviet Socialist Republics  
 Volatile Organic Compound  
 World Trade Organization