

Key standards for a smart, flexible, low-carbon energy system

Electrotechnical

- BS 5918 Solar heating systems for domestic hot water. Code of practice for design and installation
- BS EN 61400-1 Wind turbines. Design requirements
- PD IEC/TS 62600-200 Marine energy. Wave, tidal and other water current converters - Electricity producing tidal energy converters. Power performance assessment
- BS EN 62446-1 Photovoltaic (PV) systems. Grid connected systems

Electric vehicles and EV charging

- PD IEC TS 61980-2 Electric vehicle wireless power transfer (WPT) systems
- PD ISO/TR 8713 Electrically propelled road vehicles. Vocabulary
- BS IEC/TS 61851-3 series Electric vehicle charging system
- BS EN 17127 Outdoor hydrogen refuelling points dispensing gaseous hydrogen and incorporating filling protocols
- BS ISO 14687 Hydrogen fuel quality. Product specification

Electrical energy storage

- BS IEC 62933 series Electrical energy storage (EES) systems
- PAS 7062 Electric vehicle battery cells – Health and safety, environmental and traceability considerations in cell manufacturing and finished cell – Code of Practice
- PAS 7061 Batteries for vehicle propulsion electrification – Safe and environmentally conscious handling of battery packs and modules – Code of practice
- PAS 7060 Electric vehicles. Safe and environmentally-conscious design and use of batteries. Guide

Energy use and efficiency

- BS EN ISO/IEC 13273-2 Energy efficiency and renewable energy sources. Common international terminology. Renewable energy sources

- BS EN ISO 50001 Energy management system requirements

- BS EN 16231 Energy efficiency benchmarking methodology

- BS EN ISO 14001 Environmental management systems

Grid/supply

- BS EN 50160 Voltage characteristics of electricity supplied by public electricity networks
- BS EN 61850 series Communication networks and systems for power utility automation
- BS EN 62488 series Power line communication systems for power utility applications

Smart homes and businesses

- BS EN 50491 series Home and building electronic systems (HBES) and building automation and control systems (BACS)
- PD CEN/CLC/ETSI TR 50572 Functional reference architecture for communications in smart metering systems
- PD CEN/TR 16061 Smart gas meters
- PAS 1878 Energy smart appliances. System functionality and architecture. Specification
- PAS 1879 Energy smart appliances – Demand side response operation – Code of Practice
- BS EN 62056 series Electricity metering data exchange
- BS 18477 Inclusive service provision. Requirements for identifying and responding to consumer vulnerability

