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

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

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 62600-100 Electricity producing wave energy convertors. Power performance assessment

BS EN 62446-1 Photovoltaic (PV) systems. Grid connected systems

Electric vehicles and EV charging

PD IEC TS 61980-2:2019 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

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 [in development]

PAS 7061 Batteries for vehicle propulsion electrification — safe and environmentally conscious handling of battery packs and modules — Code of practice [in development]

PAS 7060 Health, safety and environmental considerations in [EV] Vehicle design and use — Guide [in development]

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 50572:2011 Functional reference architecture for communications in smart metering systems
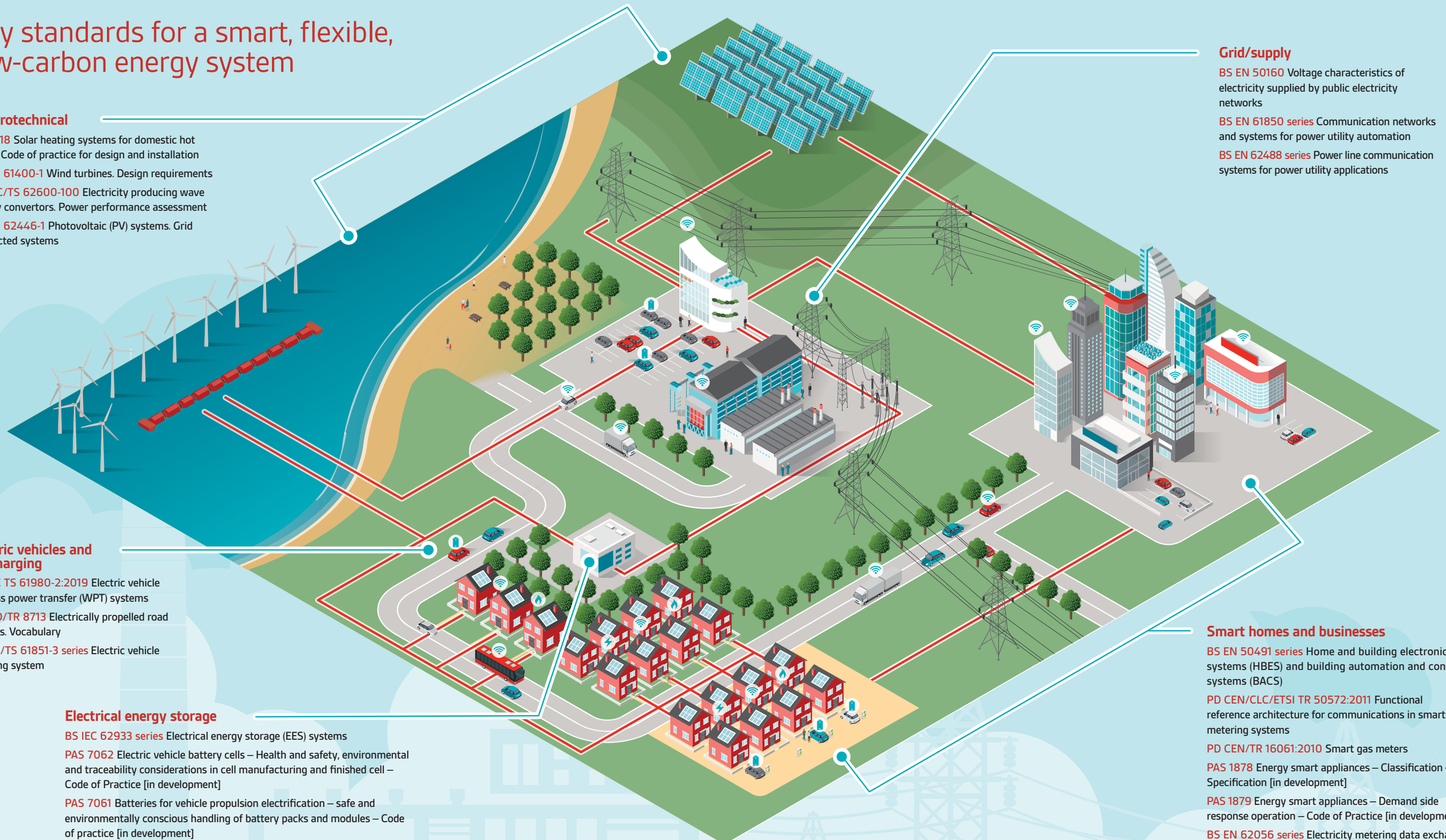
PD CEN/TR 16061:2010 Smart gas meters

PAS 1878 Energy smart appliances — Classification — Specification [in development]

PAS 1879 Energy smart appliances — Demand side response operation — Code of Practice [in development]

BS EN 62056 series Electricity metering data exchange

BS 18477 Inclusive service provision

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 50001:2011 Energy management system requirements

BS EN 16231 Energy efficiency benchmarking methodology

BS EN ISO 14001 Environmental management systems

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