

Glossary

Acronym	Word	Explanation
ANM	Active network management	Control systems that manage generation and demand within system parameters.
AS	Ancillary services	Services procured by a System Operator to balance demand and supply and to ensure the security and quality of electricity supply across the transmission system. These services include reserve, frequency control and voltage control. In GB these are known as Balancing Services and each service has different parameters that a provider must meet.
API	Application programming interface	A set of functions and procedures that allow the creation of applications which access the features or data of an operating system, application, or other service.
AI	Artificial Intelligence	The theory and development of computer systems able to perform tasks normally requiring human intelligence.
	AS/BS tender	The process undertaken by National Grid for procuring ancillary and balancing services.
	Balancing actions	Actions undertaken by the Electricity System Operator (ESO) to ensure system balance and operability.
BM	Balancing Mechanism	The Balancing Mechanism is a single purchaser trading platform to enable final opportunity balancing of the electricity system by the system operator.
BMU	Balancing mechanism unit	A unit which participates in the balancing mechanism and exports or imports electricity.
BS	Balancing Services	Services procured by a System Operator to balance demand and supply and to ensure the security and quality of electricity supply across the transmission system. These services include reserve, frequency control and voltage control.
BSUoS	Balancing Services Use of System	The BSUoS charge recovers the cost of day-to-day balancing actions that the ESO takes in the operation of the transmission system.
BASICS	BASICS	An internal National Grid programme to ensure a strong culture of compliance, data and risk management.
BOA	Bid Offer Acceptance	Instruction issued by National Grid when accepting a Bid Offer submitted by a Balancing and Settlement Code Party.
	Black start	Black start is the procedure we use to restore power in the event of a total or partial shutdown of the national electricity transmission system.
CM	Capacity Market	A market for capacity providers whereby in return for capacity payments revenue, providers must deliver energy at times of system stress, or face penalties. National Grid acts as the Delivery Body.
	Charging Futures	An industry programme coordinating significant reform of electricity access and charging arrangements in close collaboration with users of GB's electricity network.
CACoP	Code Administrator Code of Practice	Ofgem's code governance review established the Code Administration Code of Practice (CACoP). The CACoP, developed by code administrators and users, aims to facilitate transparency of the code modification process, and help protect the interests of market participants.
CUSC	Connection and Use of System Code	The Connection and Use of System Code (CUSC) is the contractual framework for connection to, and use of, the National Electricity Transmission System (NETS).
CfD	Contract for Difference	A generator party to a CFD is paid the difference between the 'strike price' – a price for electricity reflecting the cost of investing in a particular low carbon technology – and the 'reference price' – a measure of the average market price for electricity in the GB market.

C&S	Contracts and Settlements Team	The team within the Electricity System Operator that undertakes account management services for ancillary and balancing service providers and bills BSUs payers.
CSAT	Customer satisfaction	A measure of how the functions, products or services undertaken or supplied by a company meet or surpass a customer's expectations.
D-1 or DA	Day ahead	The market or schedule for energy for the following day.
DER	Distributed Energy Resource	Resources connected to the distribution network which can generate or offtake electricity.
DNO	Distribution Network Operator	A company that owns and operates gas or electricity distribution networks.
DSO	Distribution System Operator	A company that maintains balance and operability of a distribution network.
EV	Electric Vehicle	A vehicle driven by an electric motor.
	Electricity Capacity Report	An annual report published by National Grid in its role as EMR Delivery Body to support the process of securing Capacity Market volume.
EMR	Electricity Market Reform	A government programme consisting of the development of the Capacity Market and Contracts for Differences.
ENCC	Electricity National Control Centre	The control room of the ESO where balancing action instructions are issued.
ESO	Electricity System Operator	An organisation entrusted with ensuring supply and demand are balanced second to second and in the longer term, and managing power flows across the network safely and reliably. National Grid is the ESO for Great Britain.
ETYS	Electricity Ten Year Statement	An annual publication detailing likely future transmission requirements of bulk power transfer capability of the National Electricity Transmission System (NETS), based on the Future Energy Scenarios (FES).
ETO	Electricity Transmission Owner	A company that owns electricity transmission assets. National Grid is the ETO for England and Wales.
	ENA Open Networks Project	A project lead by the Energy Networks Association bringing together UK and Irish grid operators, academics, non-governmental organisations, government and Ofgem. The aims of the project include developing an improved transmission-distribution process for connections, considering future charging requirements and developing a view of the required transition from distribution network operator to distribution system operator.
ENA	Energy Networks Association	Industry body representing gas and electricity transmission and distribution licence holders.
EFCC	Enhanced Frequency Control Capability	A three-year project lead by National Grid designed to find a resolution to the challenge of maintaining frequency stability with increased renewable generation.
ECIT	Extending Competition in Transmission	Programme developing arrangements for introducing competitive tenders to onshore electricity transmission projects.
	Fast reserve	Fast reserve provides rapid and reliable delivery of active power through increasing output from generation or reducing consumption from demand sources.
RF	Final reconciliation	The last required Timetabled Reconciliation Settlement Run.
FY	Financial year	A year as reckoned for taxing or accounting purposes, in this case April to March.
FFR	Firm Frequency Response	A response service to modify generation or demand to compensate for changes in system frequency within 2-30 seconds.
FBSR	Future Balancing Services Roadmap	A suite of documents detailing planned consultation and reform of balancing services.
FES	Future Energy Scenarios	An annual publication by National Grid detailing scenarios for the UK energy landscape from today to 2050.
GBSQSS	GB Security and Quality of Supply Standard	The Security and Quality of Supply Standards set out criteria and the methodology for planning and operating the National Electricity Transmission System.
GW	Gigawatt	1 x 10 ⁹ Watts.

gCO2/Kwh	grams of carbon dioxide per kilowatt hour	Measurement of CO2 equivalent emissions per kWh of energy used or produced.
HHI	Herfindahl Hirschman Index	A measure of the size of firms in relation to the industry and an indicator of the amount of competition among them.
	High Volts	Abnormally high levels of voltage.
II	Initial Interim	The first settlement run sent to Balancing and Settlement Code Parties in accordance with the Settlement calendar.
SF	Initial settlement	The first settlement run that results in money changing hands.
MW	Megawatt	1 x 10 ⁶ Watts.
NGET	National Grid Electricity Transmission	The company comprising the England and Wales ETO and Great Britain ESO that is wholly owned by National Grid plc.
NPS	Net promoter score	A measure of loyalty of a firm's customer relationships.
NOA	Network Options Assessment	A methodology which assesses the major projects considered to meet the future needs in GB's electricity transmission system as outlined in the Electricity Ten Year Statement (ETYS) 2017, and recommends which investments in the year ahead would best manage the capability of the GB transmission networks against the uncertainty of the future.
NBM	Non Balancing mechanism unit	An individual generation or demand unit that is not part of the balancing mechanism.
	Operational Forum	A regular meeting with electricity market participants to discuss the operation and performance of balancing and capacity.
	Pathfinding Project	An innovative project or study which explores new areas or ways of working and sets direction for future work.
PV	Photovoltaic	A method of converting solar energy into direct current electricity.
PAS	Platform for Ancillary Services	New system in development within the Electricity System Operator for the flexible dispatch of ancillary services.
	Power Potential	A project to develop a technical and a commercial solution to maximise the use of distributed energy resources to resolve transmission voltage and thermal constraints.
	Power Responsive	A stakeholder-led programme, facilitated by National Grid, to stimulate increased participation in the different forms of flexible technology such as demand-side response and storage. It brings industry and energy users together to work together in a co-ordinated way.
	Product Roadmap	A timetable published by the ESO for reform of balancing and ancillary services
	Project Phoenix	A partnership between National Grid and Scottish Power Electricity Networks to trial new technology in regulating frequency and voltage on the grid.
RDP	Regional development plan	Partnerships between the Electricity System Operator and Distribution Network Operators to release capacity at distribution level.
RES	Renewable Energy Source	Energy source from resources that naturally replenish on human timescales e.g. wind and solar power.
	Response services	Services to help maintain system frequency.
SP	Settlement periods	A period of 30 minutes beginning on the hour or the half-hour.
STOR	Short Term Operating reserve	At certain times of the day we may need access to sources of extra power to help manage actual demand on the system being greater than forecast or unforeseen generation unavailability. STOR provides this reserve.
	Smart control	Giving consumers more real time control of how they use their energy.
	Smart Power	A report by the National Infrastructure Commission highlighting the potential £8bn savings per year to 2030 for consumers through innovation, interconnection and demand flexibility.
SSAT	Stakeholder satisfaction	A measure of how the functions, products or services undertaken or supplied by a company meet or surpass a stakeholder's expectations.
	Summer Outlook	An annual report published by National Grid informing the energy industry of its preparations for the summer ahead.

SBR	Supplemental balancing reserve	A now obsolete transitional product to provide additional reserve in the mid-decade period.
	System operability	A technically secure system with quantified and agreed risk achieved through market acceptable cost and procurement methods.
SOF	System Operability Framework	The System Operability Framework (SOF) takes a holistic view of the changing energy landscape to assess the future operation of Britain's electricity networks. The SOF combines insight from the Future Energy Scenarios with a programme of technical assessments to identify medium-term and long-term requirements for operability.
STC	System Operator Transmission Owner code	A code that defines the relationship between the transmission system owners and the system operator.
	Ten Year statement	See ETYS.
TR	Tender Round	A round of tendering.
TERRE	Trans European Replacement Reserve Exchange	An implementation initiative to establish a pan-European market for balancing energy.
TOGA	Transmission outage and generator availability	National Grid's system for receiving submissions of generator availability and outage dates. The system also provides reports of transmission outages.
TO	Transmission owner	See ETO.
TNUoS	Transmission Use of System charge	Charges that recover the cost of installing and maintaining the transmission system in England, Wales, Scotland and Offshore.
UKPN	UK Power Networks	A distribution network operator.
UEP	Unipart Expert Practice	A consultancy firm, part of Unipart Group.
UCA	Unit cost allowance	Boundary unit cost allowance £K/MW.
W	Watt	The unit of power.
WLHVDC	Western Link High Voltage Direct Current	A electricity link currently under construction between Scotland and Wales to help bring renewable energy from Scotland to England and Wales.
WPD	Western Power Distribution	A distribution network operator.
	Winter Outlook	An annual report published by National Grid informing the energy industry of its preparations for the winter ahead.
WD	Within day	During a given day.