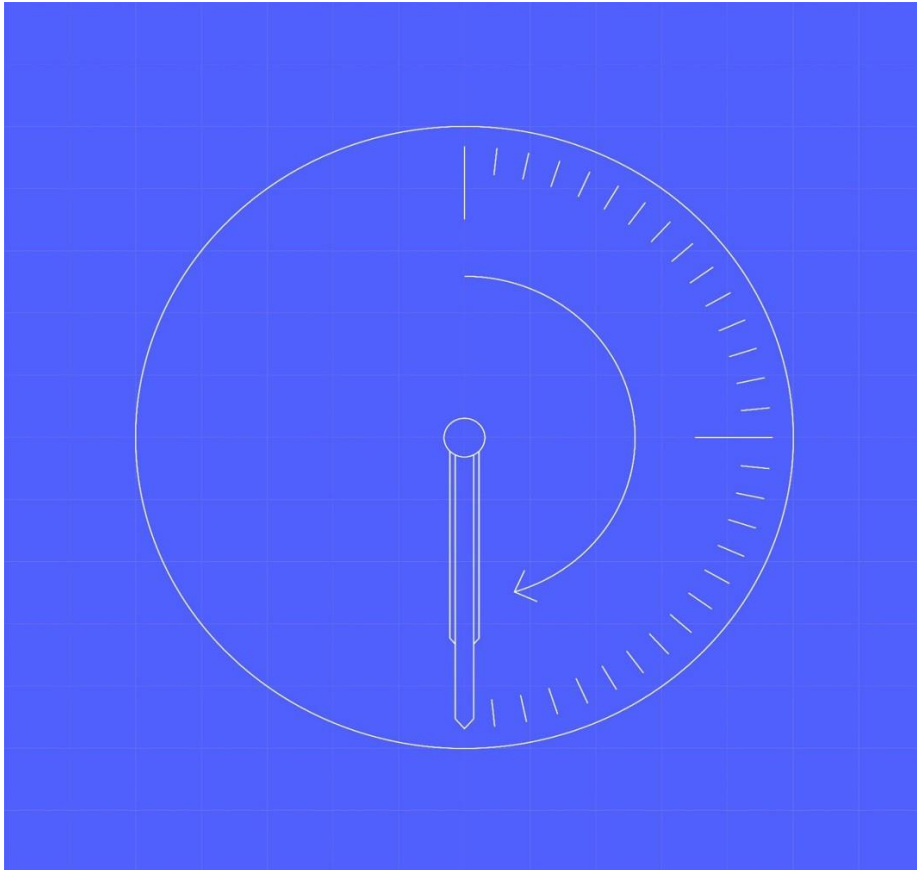


Programme Glossary (PDF version)



This is a pdf copy of the current MHHS programme glossary – an online version is available to participants on the [Collaboration Base](#).

In order to support consistent use of terms and acronyms, the MHHS programme is using a programme glossary. This captures terms and their definitions (and any relevant acronyms). If you identify any errors, or have proposals to update the glossary please contact design@mhhsprogramme.co.uk

v1.1 was created at the end of January 2023 and added over 20 new terms and acronyms that have been added to the MHHS Design artefact baseline.

Version	1.1	Date	22.3.23
Author	SI Design	Terms	364
Reference	MHHS-DEL257		

MHHS Programme Glossary

Term	Acronym	Definition	Related Term
Active Energy	AE	The electrical energy produced, flowing or supplied by an electric circuit during a time interval, being the integral with respect to time of instantaneous Active Power, measured in units of watt-hours or standard multiples thereof.	
Advanced Data Service	ADS	The Advanced Data Service is the 'Qualified' service that provides the Advanced Retrieval and Processing Service (ARP)	
Advanced Market Segment		The Advanced Market Segment is the Market Segment where Settlement Level Period data is collected for Settlement purposes from Advanced Meters. For the avoidance of doubt where the Advanced Meter communications are faulty, the Advanced Meter would remain in this Market Segment, processed by the Advanced Retrieval and Processing Service (ARP). The communications' fault would be fixed by the Advanced Metering Service (MSA).	
Advanced Meter		The electricity supply licence defines an Advanced Meter as electricity Meter that, either on its own or with an ancillary device, and in compliance with the requirements of any relevant Industry Code: a) Provides measured electricity consumption data for multiple time periods, and is able to provide such data for at least half-hourly time periods; and b) Is able to provide the licensee with remote access to such data.	
Advanced Retrieval and Processing Service	ARP	The Advanced Retrieval and Processing Service (ARP) is the service that retrieves and processes Settlement Period Level data from Advanced Meters that are in the Advanced Market Segment.	
Annualised Advance	AA	Rate of consumption between two meter readings.	EAC
Application Program Interface	API	A set of definitions and protocols for building and integrating application software	
Architecture Working Group	AWG	The Architecture Working Group is an Elexon-chaired group of industry experts developing, consulting on and recommending solutions for the system architecture design required to enable the Target Operating Model (TOM) designed by the Design Working Group (DWG).	
Association for Project Management	APM	Promotes the disciplines of project management and programme management in the UK	
Auxiliary Load Control Switch	ALCS	Variant smart electricity meters (including five terminal meters) have an auxiliary load control switch (ALCS) integrated as part of the meter that can switch the electricity supply to the devices connected to it on or off generally triggered by time or a signal/instruction to switch.	HCALCS
Balancing and Settlement Code	BSC	The Legal document setting out the rules for the operation and governance of the Balancing Mechanism and Imbalance Settlement. All licensed electricity generators and suppliers in Great Britain must	

MHHS Programme Glossary

		sign up to the BSC and other interested parties may also choose to do so.
Balancing and Settlement Code Company	BSCCo	A not for profit organisation responsible for managing the provision of the necessary central systems and services to give effect to the BSC rules and for managing the governance processes. Elexon is known as the Balancing and Settlement Code Company, and they administer the Balancing and Settlement Code.
Balancing and Settlement Code Panel		The Balancing and Settlement Code (BSC) Panel is established and constituted pursuant to and in accordance with Section B of the BSC. It is responsible for ensuring that the provisions of the BSC are given effect fully, promptly, fairly, economically, efficiently, transparently and in such a manner as will promote effective competition in the generation, supply, sale and purchase of electricity.
Balancing and Settlement Code Procedures	BSCP	Balancing and Settlement Code Procedures (BSCPs) are a type of Code Subsidiary Documents (CSDs) used under the BSC that set out procedures relating to Settlement activities.
Balancing Mechanism	BM	The means by which the National Grid ensures that the level of demand on the transmission system is met by the amount of electricity being supplied in real time. It does this through paying / charging generators and / or consumers to either increase or decrease their generation / consumption.
Balancing Mechanism Unit	BMU	Balancing Mechanism Units (BMU) are used as units of trade within the Balancing Mechanism. Each BMU accounts for a collection of plant/apparatus and is considered the smallest grouping that can be independently controlled. It can relate to metering at a physical site or be a non-physical grouping of Metering Systems for a Balancing Responsible Party (BRP) (or other party such as flexibility aggregators) within a region. As a result most BMUs contain either a generating unit or a collection of consumption Meters. Any energy produced or consumed by the contents of a BMU is accredited to that BMU.
Balancing Responsible Party	BRP	The Balancing Responsible Party is used in these requirements to refer to the future party that provides the role currently undertaken by the Supplier. This could potentially be a bundled services company where the provision of electricity is only one of the services provided.
Best and Final Offer	BAFO	Within procurement processes, when tenderers are shortlisted, they are typically asked to provide a BAFO as a final offer to take into final evaluation and selection of the preferred bidder.
British Summer Time	BST	Time as advanced one hour ahead of Greenwich Mean Time for daylight saving in the UK between March and October
BSC P413		Means the Modification approved by Ofgem for Market-wide Half Hourly Settlement.

MHHS Programme Glossary

Bundling/Bundle		Combining of, or a combination of, a number of different products or services into one unit for sale.
Business As Usual	BAU	Normal operating circumstances
Business Continuity and Disaster Recovery	BCDR	A set of processes and techniques used to help an organisation recover from a disaster and continue or resume routine business operations
Business Process Requirements Working Group	BPRWG	MHHS Level 4 governance group - responsible for developing the business process designs required by the TOM
Capability Maturity Model Integration	CMMI	A process and behavioural model that helps organisations streamline process improvement and encourage productive, efficient behaviours that decrease risks in software, product, and service development
Categories		A set of categories defined for which Load Shapes are to be provided by the Load Shaping Service (LSS) in the MHHS TOM.
Categorisation		The process of mapping MPANs to categories for Load Shaping processes in the MHHS TOM.
Central Bodies/Systems		MHHS programme term referring to the parties and systems that comprise the supporting infrastructure for MHHS business processes and services, namely the Elexon Central Services, Electricity Enquiry Service, Data Service Provider, Central Switching Service, Data Transfer Network and the Data Integration Platform ECS, EES, DSP, CSS, DTN, DIP
Central Data Collection Agent	CDCA	The Central Data Collection Agent as the BSC Agent that collects Meter data from Central Volume Allocation (CVA) registered Metering Systems.
Central Parties		Means Elexon central systems, DCC, the DIP service provider and Electralink in providing the DTN.
Central Programme Team	CPT	CPT is the leadership team of the LDP managing the day-to-day delivery of the MHHS Programme and providing Elexon (SRO/IM) with advice and support on the most effective approach to delivery
Central Switching Service	CSS	The Central Switching Service is expected to come into operation in Q2 2022, it will take on responsibility for all gas and electricity change of supplier activity. The CSS will manage switch requests, objections, and will update the appropriate registration system(s) once a change of supplier has been secured.
Central Volume Allocation	CVA	Central Volume Allocation refers to the allocation of active energy from: a) BM Units other than Interconnector BMUs and BRP BMUs; b) Interconnectors; c) Grid Supply Points; and d) GSP Groups.
Change of Agent	CoA	A business process where a supplier changes one of its appointed agents

MHHS Programme Glossary

Change of Measurement Class	CoMC	Process used in SVA to change the measurement class of a metering point
Change of Supplier	CoS	Describes the activities that take place when an electricity consumer switches between retail suppliers
Change Request	CR	A formal change raised against the MHHS Programme and processed in accordance with the MHHS Programme change management process.
Code Change and Development Group	CCDG	The Code Change and Development Group is an Elexon-chaired group of industry experts developing the further detailed areas of the TOM design as well as identifying and overseeing the drafting of the changes needed to the affected industry codes and subsidiary documents required to implement the TOM.
Code Subsidiary Document	CSD	Code Subsidiary Documents (CSDs) sit under the BSC that set out more detail on the requirements of the BSC and can be changed from time to time in accordance with BSCP40.
Commercial Off-the-Shelf	COTS	Software and hardware that already exists and is available from commercial sources
Communications hub	CH	The comms hub is the piece of hardware installed alongside a smart meter that allows for the transmission of data between the meter and the Data and Communications Company (DCC).
Communications hub firmware	CHF	The comms hub is the piece of hardware installed alongside a smart meter that allows for the transmission of data between the meter and the Data and Communications Company (DCC). The firmware is the permanent software installed on the comms hub.
Competition and Markets Authority	CMA	The Competition and Markets Authority is the competition regulator in United Kingdom. It is a non-ministerial government department in the United Kingdom, responsible for strengthening business competition and preventing and reducing anti-competitive activities
Component Integration Testing	CIT	Component Integration Testing
Connection and Use of System Code	CUSC	The Connection and Use of System Code is the contractual framework for connecting to and using the National Electricity Transmission System (NETS)
Consumption Component Class	CCC	A classification of half hourly Consumption which comprises one element from each of a number of categories e.g. Measurement Quantity, Consumption or Losses
Continual Service Improvement	CSI	Uses methods from quality management in order to learn from past successes and failures
Contracts for Difference	CfD	A government scheme which incentivises investment in renewable energy by giving developers of projects with high upfront costs, long lifetime protection from volatile wholesale prices.

MHHS Programme Glossary

Coordinated Universal Time	UTC	Coordinated Universal Time or UTC is the primary time standard by which the world regulates clocks and time
Critical Peak Price tariff	CPP	These tariffs are generally comprised of flat price periods on most days but for a number of extreme peak days in the year, prices for specified periods within each day are far higher (usually 5-20 days that in a given year that are due to system stress periods).
Critical Peak Rebate tariffs	CPR	CPR tariffs mirror CPP tariffs except that with CPR the consumer can get a rebate for load reductions during a specific period on relevant days relative to an estimated baseline consumption level. Those who cannot reduce demand will not pay any more for consumption during the peak period, while those who can will save.
Cross Code Advisory Group	CCAG	The CCAG role is to oversee the development, management and implementation of MHHS Programme related Code changes to all MHHS impacted Codes to ensure Code reflects how the new MHHS TOM process and systems operate.
Current Transformer	CT	A CT is used to measure the current of another circuit. A CT is designed to produce an alternating current in its secondary winding that is proportional to the current that it is measuring in its primary. In the context of MHHS a CT Metering System is one that is connected via a CT.
Cutover		The point by which all Meter Point Administration Numbers (MPANs) must be being settled on the new settlement timetable delivered by the MHHS Programme.
Cyber Assessment Framework	CAF	The Cyber Assessment Framework (CAF) provides a systematic and comprehensive approach to assessing the extent to which cyber risks to essential functions are being managed by the organisation responsible. It is intended to be used either by the responsible organisation itself (self-assessment) or by an independent external entity, possibly a regulator or a suitably qualified organisation acting on behalf of a regulator.
Daily Advance Estimate	DAE	The Daily Advance Estimate (DAE) is the consumption or export value used by a Processing Service (Smart) (PSS) in the MHHS TOM, in estimating Settlement Period level data, where a Meter Advance is not available. It is a value derived for each MPAN based on the latest available meter advance divided by the number of days in the Meter Advance. It could also be a default value where no Meter Advance is available for an MPAN.
Daily Profile Production	DPP	For each Settlement Day, the SVA System produces the Settlement Period Profile Data and Time Regime Data required to run the Supplier Volume Allocation (SVA) part of the SVA System, the Daily Profile Totals to pass to the Non Half Hourly Data Collectors and the

MHHS Programme Glossary

		Profiling Reports to pass to the Suppliers and Non Half Hourly Data Collectors	
Data Access and Privacy framework	DAPF	The Government's data access and privacy policy framework determines the levels of access to energy consumption data from smart meters that suppliers, network operators and third parties have. It also establishes the purposes for which data can be collected and the choices available to consumers. The provisions of the DAPF are enacted through the Supply Licence Conditions (SLCs) and the Smart Energy Code (SEC).	
Data Aggregator	DA	As part of the settlement process, a DA is a party appointed by an electricity supplier in accordance with Section S of the BSC, responsible for receiving data from the data collector, validating and providing reports and maintain relevant standing data. The DA enters data into the relevant aggregation system, aggregates the metered data into MWh in the relevant aggregator system and provides this to the Supplier Volume Allocation Agent.	HHDA, NHHDA
Data and Communications Company	DCC	The DCC is the company that manages the data and communications to and from smart meters.	Smart DCC
Data Collector	DC	As part of the settlement process, a DC is a party appointed by an electricity supplier in accordance with Section S of the BSC, responsible for collecting, validating and estimating data (as required). Provides reports and maintains relevant standing data.	HHDC, NHHDC
Data Exchange service	DES	Data exchange service which will replace the Data Transfer Network (updated reference is now DIP). DES is also the acronym for the Data Enquiry Service provided by Xoserve in the gas market, which is one of the reasons for the change to DIP to minimise confusion.	DIP
Data Integration Platform	DIP	Event Driven Architecture data exchange solution being procured and implemented by the MHHS Programme.	DES
Data Protection Impact Assessment	DPIA	A Data Protection Impact Assessment (DPIA) is a tool to help organisations find the most effective ways of complying with data protection obligations and meet individuals' expectations of privacy. To date, we have published two iterations of our Settlement Reform DPIA. We are publishing an addendum to version 2 alongside the FBC.	
Data Service	DS	Generic and collective reference for the MHHS Target Operating Model services relating to data service provision - includes the Smart Data Service, Advanced Data Service and Unmetered Data Service	SDS, ADS, UMSDS
Data Service Provider	DSP	DCC System managing communications with Smart Meters	
Data Transfer Catalogue	DTC	Schema defining the messaging format for the Data Transfer Network	

MHHS Programme Glossary

Data Transfer Network	DTN	An information exchange platform which allows participants in the electricity, gas and water markets to exchange information about their customers, enabling processes such as settlement and a customer changing supplier. The DTN is hosted by ElectraLink.	DTS
Data Transfer Service	DTS	The service to provide the DTN, provided by Electralink.	DTN
Data Transfer Service Agreement	DTSA	The multi-party agreement which sets out the obligations for the provision of the DTS	DTS
DCC User Interface Specification	DUIS	DCC User Interface Specification (DUIS) is the specification the document that set out in the communications interface designed to allow the communications with smart Meters. The DUIS sets out valid Service Request types and the data items returned for each request type.	
Demand Disconnection Event	DDE	An event where the ESO has disconnected specific Metering Systems due to a constraint. A calculation is required in Elexon Central Services to adjust Suppliers' Imbalance positions following the event.	
Demand-side response	DSR	Actions taken by consumers to change the amount of energy they take off the grid at particular times in response to a signal, such as price.	DER
De-Minimus Value	DMV	The DMV is the value set out in ISD below which the LSS is required to undertake a default calculation.	
Department for Business, Energy and Industrial Strategy	BEIS	Government department with responsibility for energy	
Design Advisory Group	DAG	The DAG's role is to oversee, review, consult and approve, the MHHS Programme development of the end-to-end business processes, system and data architecture that delivers the detailed system design that enables all programme participants to design, build and test their individual system and business changes.	
Design Build Test	DBT	Design Build Test phase of the MHHS Programme	
Design Working Group	DWG	The Design Working Group is an Elexon-chaired group of industry experts who worked to design the Target Operating Model (TOM) and high-level transition approach for Marketwide Half-Hourly Settlement. The DWG has been succeeded by the Architecture Working group and Code Change and Development Group.	
Device ID		The Device ID is the unique identifier associated with each smart Meter serviced by the DCC, reference also ESME GUID	
DIP Service Provider	DIPSP	The organisation responsible for operating the Data Integration Platform	
DIP Service Provider	DIPSP	The Service Provider of the Data Integration Platform	

MHHS Programme Glossary

Direct load control tariff		A tariff where the consumer pays a lower than average flat rate but in return agrees to some direct load control by their supplier at specific time periods when load is turned down. The consumer would need a smart device installed which would be remotely operated by the supplier with customer consent or with their manual involvement.	
Discount Rate		Discount rate is the annual percentage rate at which the present value of future monetary values are estimated to decrease over time.	
Discounting		Discounting is a technique used to compare costs and benefits occurring over different periods of time.	
Disputes (post-final) settlement run	DF	An additional reconciliation run that can be applied to address imbalances following the resolution of disputes	
Distributed Energy Resource	DER	Refers to a variety of resources (e.g. demand response, generation, storage) available to trade energy resources or provide services such as balancing and flexibility to network operators.	
Distributed Generation	DG	Refers to a variety of technologies that generate electricity at or near where it will be used, such as solar panels and combined heat and power	
Distributed ledger technology		Distributed ledger technology enables a digital system in which records are held to be simultaneously maintained at multiple points throughout a network. Updates made to the ledger by a single party are replicated across all the ledgers. Transactions and changes are visible to all parties.	
Distribution Connection and Use of System Agreement	DCUSA	The Distribution Connection and Use of System Agreement (DCUSA) is a multi-party contract between licensed electricity distributors, suppliers and generators in Great Britain concerned with the use of the electricity distribution system	
Distribution Network Operators	DNO	DNO is the REC and SEC defined term DNOs own, operate and maintain the distribution networks. They do not sell electricity to consumers, this is done by the electricity suppliers. There are 14 licensed DNOs in Britain, and each is responsible for a regional distribution services area.	iDNO, DSO, LDSO
Distribution System Operator	DSO	DSO is the BSC defined term Means - Licensed Distribution System Operator or any other Party which distributes electricity DSO is also a term used more widely in industry to mean a DNO who is taking a more forward-looking approach to distribution system balancing and the associated procurement of distribution level balancing services.	DNO, LDSO

MHHS Programme Glossary

Distribution Use of System	DUoS	DUoS is the charge applied to Suppliers payable to DNOs to pay for maintaining the local electricity distribution network infrastructure including the cables, substations, poles, and transformers.	
Distributional impacts		The impact of a project across a range of consumer types in terms of the costs and benefits that accrue to specific categories of consumer groups.	
Dual fuel		Gas and Electricity being supplied to/exported from the same location and billed to a single energy supplier	
DURABILL		The Distribution Use of System billing system, used for charging users of the electricity distribution networks in the GB market. The system is provided by St Clements.	
Dynamic ToU tariffs		A dynamic time-of-use tariff is one that provides for price or pricing structures for consumers to vary at short notice their energy usage, in response to market events, (subject to contractual terms with the BRP).	
Economy 7 tariffs	E7	Economy 7 tariffs charge lesser rates during night and greater rates during the day (or peak) time. This tariff can be supported by smart meters or legacy specialised (and less advanced) Economy 7 meters (timeswitched meters).	
Electric vehicles	EV	Battery powered automobiles	
Electricity Act		Means the Electricity Act of 1989	
Electricity Central On-line Enquiry Service	ECOES	Electricity Enquiry Service (EES) is also known as the Electricity Central Online Enquiry Service (ECOES). The EES is a service funded by electricity suppliers and distributors and governed under the Retail Energy Code (REC). EES was designed to assist suppliers in the customer switching process by allowing the triangulation of data	EES
Electricity Enquiry Service	EES	Replaced ECOES - is an online service that allows users to view and access information sourced from data items already held in industry systems - it includes data from the Registration Data Service, the Central Switching Service, Prepayment Infrastructure Providers and Green Deal Central Charge database.	ECOES
Electricity Enquiry Service	EES	EES is governed by REC	ECOES
Electricity Retail Data Agent	ERDA	Means a provider of a DNO's Electricity Retail Data Service	
Electricity Retail Data Service	ERDS	Means the electricity registration services provided under the REC to support the provision of electricity retail data to the CSS and other services	
Electricity Settlement Expert Group	ESEG	The ESEG was an expert group of stakeholders convened by Ofgem with the objective of identifying options for using half-hourly data in settlement. Seven meetings took place between June and November 2014.	

MHHS Programme Glossary

Electricity Smart Metering Equipment Globally Unique Identifier	ESME GUID	This is the reference used to identify a specific electricity smart meter serviced by the DCC. Created so as to remove any ambiguity associated with the term 'Device ID' (e.g. Gas Meter, Comms Hub).	
Electricity supplier		A company licensed by Ofgem to sell electricity to and bill customers in Great Britain.	
Electricity System Operator	ESO	ESO is the System Operator for the electricity transmission system in Great Britain, with responsibility for making sure that electricity supply and demand stay in balance and the system remains within safe technical and operating limits.	
Elexon		Elexon (as BSC Co) is the organisation responsible for administering the BSC and provide and procure the services needed to implement it. The role, powers, functions and responsibilities of Elexon are set out in Section C of the BSC.	
Elexon Central Systems	ECS	MHHS Programme term used to describe the new MHHS Target Operating Model services being delivered under the programme - Load Shaping, Marketwide Data, Volume Allocation and Industry Data	
EMR Settlement Limited	EMRS	a wholly owned subsidiary of Elexon Limited set-up as the service provider to operate under the BSC and for Contracts for Difference (CfD) and Capacity Market (CM) schemes.	CM, CfD
End of migration		The point in the MHHS Programme at which all Meter Point Administration Numbers (MPANs) have been migrated/adopted into the MHHS Target Operating Model (TOM).	
End to End	E2E	Comprising the full scope of the changes being brought by the programme - often applied to a testing phase where users will prove their systems and processes (Duplicate of ESO with the National Grid meaning)	
Enduring Service Owner	ESO	The licensed body responsible for the Data Integration Platform, as determined by Ofgem	
Energy Data Task Force	EDTF	The EDTF was commissioned by Government, Ofgem and Innovate UK to provide a set of recommendations on using data to maximise the opportunities for a decarbonised and decentralised energy system.	
Energy Market Data Hub	EMDH	The centre for ElectraLink's products and services and solutions and a platform they use to allow innovators to develop new products and services for the utilities industry.	
Estimated Annual Consumption	EAC	An estimated rate of consumption, nominally expressed in kWh/Year, that is currently used in settlement until an Annualised Advance (AA) is calculated	AA
Event Driven Architecture	EDA	A software architecture paradigm promoting the production, detection, consumption of, and reaction to events	

MHHS Programme Glossary

Export		The transfer of electricity from a consumer and / or generator to the distribution grid.	
Extended Threat Detection and Response	XDR	A cybersecurity technology that monitors and mitigates cyber security threats	
eXtensible Markup Language	XML	Extensible Markup Language is a markup language and file format for storing, transmitting, and reconstructing arbitrary data	
Extra Settlement Determination	ESD	Is a determination, outside Volume Allocation Runs and Settlement Runs, of Trading Charges (or adjustment and apportionment in respect thereof), required to be carried out by the Panel	
Faster Switching Programme	FSP	The Faster Switching Programme is the Ofgem Significant Code Review initiative to deliver faster more reliable switching (of gas or electricity supplier) as a new industry standard.	
Federal Information Processing Standards	FIPS	The United States' Federal Information Processing Standards are publicly announced standards developed by the National Institute of Standards and Technology for use in computer systems by non-military American government agencies and government contractors	
Feed-in Tariffs	FiT	The Feed-in Tariffs (FIT) scheme is a government programme designed to promote the uptake of renewable and low-carbon electricity generation technologies. Introduced on 1 April 2010, the scheme requires participating licensed electricity suppliers to make payments on both generation and export from eligible installations. The scheme closed to new applicants in April 2019.	
File Integrity Monitoring	FIM	Verification of the integrity of operating systems and application software files to determine if tampering or fraud has occurred by comparing them to a trusted "baseline."	
Final Reconciliation Run	RF	Is the last required Timetabled Reconciliation Settlement Run	SF,DF,II
Flexibility		Flexibility is about reducing loads on the network by using customers' ability to change their usage patterns by either switching on generators or reducing consumption. Managing peak load through flexibility helps reduce costs to all customers because it means we don't have to invest in a permanent upgrade to meet a temporary spike in demand.	
Forecasting		The activity undertaken by suppliers to predict the electricity demand of their customers in order to procure the amount that they require for supply.	
Forward-Looking Charges		The elements of network charges that signal to users how their actions can either increase or decrease future network costs. They typically provide signals about the costs or benefits of locating at different points on the network (sometimes called "locational charges") and/or of using the network at different times.	

MHHS Programme Glossary

Full Business Case	FBC	The FBC is the final stage in the HM Treasury Green Book standard for business cases. For the MHHS Programme, it outlines a detailed economic assessment of the introduction of MHHS to complement the final Target Operating Model. It uses the commercial, financial and management cases to set out arrangements for implementation. It is informed by an Impact Assessment.
Full Time Equivalent	FTE	Refers to the unit of measurement equivalent to an individual working full-time
General Data Protection Regulation (see UK GDPR)	GDPR	See UK GDPR
Globally Unique Identifier	GUID	Term used by DCC - This is the reference used to identify a specific electricity smart meter serviced by the DCC. Created so as to remove any ambiguity associated with the term 'Device ID' (e.g. Gas Meter, Comms Hub).
Great Britain Companion Specification	GBCS	The Great Britain Companion Specification (GBCS) for smart metering describes the detailed requirements for communications between smart metering Devices in consumers' premises, and between these Devices and users of the smart metering system (such as Energy Suppliers and Network Operators) via the Data and Communications Company (DCC).
Green Book		The Green Book is guidance issued by HM Treasury on how to appraise policies, programmes and projects. It also provides guidance on the design and use of monitoring and evaluation before, during and after implementation.
Grid Supply Point	GSP	A Grid Supply Point (GSP) is a point at the boundary of Transmission and Distribution Networks, where Metering Systems measure import to, and export from, the Distribution Network.
Grid Supply Point Group	GSPG	There are currently 14 GSP Groups consisting of: (i) the Distribution System(s) which are connected to the Transmission System at (and only at) Grid Supply Point(s) which fall within one Group of GSPs, and (ii) any Distribution System which: (1) is connected to a Distribution System in paragraph (i), or to any other Distribution System under this paragraph (ii), (2) is not connected to the Transmission System at any Grid Supply Point and the total supply into which is determined by metering for each half hour.
Grid Supply Point Group Correction Factor	GSP GCF	The mathematical adjustments made to the calculation of the total energy allocated to suppliers in each settlement period in each GSP Group, to ensure that it matches the energy entering the GSP Groups from the transmission system, adjoining GSP Groups and through embedded generation.
Grid Supply Point Group Take	GSPGT	GSP Group Take is the data provided to the Volume Allocation Service (VAS), by the CDCA, giving the net volume of energy within a GSPG for each Settlement Period.

MHHS Programme Glossary

Half Hourly Data Aggregator	HHDA	Data Aggregation agent in the Half Hourly Market	DA
Half Hourly Data Collector	HHDC	Data Collection agent in the Half Hourly Market	DC
Half Hourly Meter Operator	HHMO	Meter Operator agent in the Half Hourly Market	MOP
Half Hourly Settlement	HHS	Half Hourly Settlement (HHS) is the process that covers the services and governance procedures from the electricity meter to the imbalance settlement function (meter-to-bank process). This describes the processes of using half-hourly usage (and longer time periods of energy usage) data collected from an electricity meter for use in Imbalance Settlement.	
HAN Connected Auxiliary Load Control Switch	HCALCS	A device connected to a smart meter allowing a business to control a specific circuit.	ALCS
Heat-as-a-service	HaaS	A type of business model which provides consumers with an agreed heating plan rather than consumers simply paying for units of fuel.	
Helix Project		The project name given to Elexon's own internal activities to prepare for and implement MHHS across the processes and systems it is responsible for providing.	
Host-Based Intrusion Detection	HIDS	A host-based intrusion detection system is an intrusion detection system that is capable of monitoring and analysing the internals of a computing system as well as the network packets on its network interfaces, similar to the way a network-based intrusion detection system operates.	
Hyper Text Transfer Protocol	HTTP	The Hypertext Transfer Protocol is an application layer protocol in the Internet protocol suite model for distributed, collaborative, hypermedia information systems	
Imbalance Settlement		Imbalance Settlement is the process for determining if the total energy produced or consumed by a participant in the electricity market (mainly a generator or supplier) matches with energy they have purchased/sold in the forward market. Any mismatches incur 'imbalance' charges; therefore participants are incentivised to match their contracted and actual positions	
Impact Assessment (IA)	IA	An Impact Assessment is a tool to help explain the effects and impacts of regulatory proposals on consumers, industry participants, society and the environment.	
Implementation Advisory Group	IAG	The IAG's role is to oversee and manage, the MHHS Programme plan and resolves implementation issues and tasks delegated from the PSG to ensure the Programme plan delivers to Programme timelines.	

MHHS Programme Glossary

		<p>The Implementation Manager is a role taken on by Elexon as the BSCCo to implement the MHHS Programme. BSCCo shall:</p> <ul style="list-style-type: none"> · ensure that it maintains the service providers and personnel (with the necessary qualifications and experience), IT Systems and facilities necessary to enable it to perform its role as MHHS Implementation Manager · ensure that it maintains the service providers and personnel (with the necessary qualifications and experience), IT Systems and facilities necessary to enable it to perform its role as MHHS Implementation Manager · ensure that the service providers, personnel, IT Systems and facilities it uses to perform its role as MHHS Implementation Manager are sufficiently separated from those it uses as an MHHS Participant · always remain responsible under this Code for the performance of the MHHS Implementation Manager roles <p>prepare and make available to the Panel and to the MHHS Programme Steering Group regular reports in respect of BSCCo's activities as MHHS Implementation Manager, and the costs incurred as the MHHS Implementation Manager</p>
Implementation Manager	IM	
Import		The transfer of electricity from the grid to a consumer.
In Home Device/Display	IHD	Can also be a 'smart energy monitor' - a device that connects to a smart meter to show energy usage and balances
Independent Distribution Network Operator	IDNO	IDNOs are licensed by Ofgem and are competitive providers of local distribution network services across Great Britain. IDNOs connect to the local distribution network or to the transmission network to serve new housing, commercial developments or to run existing networks. IDNOs are responsible for managing and operating their local networks, including all future maintenance and fault repairs.
Independent Programme Assurer	IPA	The Independent Programme Assurance provider (PWC) within the MHHS Programme will monitor and provide assurance that Elexon is complying with its obligations and will be responsible for identifying and reporting on issues relating to business separation and Elexon's conflict of interest
Indicators of Good Practice	IGP	Used to indicate good practice
Industry Standing Data	ISD	Industry Standing Data (ISD) is the data used by the Services to interpret the information relating to each Metering System. This data will include some of the data in the current Market Domain Data (MDD) and will have new standing data included.
Industry-led		Responsibility for management and delivery of the implementation of Market Wide Half Hourly Settlement (MHHS) by Industry

MHHS Programme Glossary

Information Commissioner's Office	ICO	The Information Commissioner's Office (ICO) upholds information rights in the public interest, promoting openness by public bodies and data privacy for individuals
Information Security Officer	ISO	The senior-level executive within an organisation responsible for establishing and maintaining the enterprise vision, strategy, and program to ensure information assets and technologies are adequately protected
Information Technology	IT	Information technology is the use of computers to create, process, store, retrieve, and exchange all kinds of electronic data and information
Information Technology Infrastructure Library	ITIL	Industry standard IT service management framework
Initial Settlement Run	SF	The Settlement Run carried out for the purposes of initial Settlement
Interconnector costs		One of the components of the net welfare analysis calculated by the dynamic dispatch model (DDM). It is the cost of the electricity imported via the interconnectors minus the value of exports across the interconnectors, faced by the GB side of interconnection. If imports are greater or import prices are higher, the cost of imported electricity is increased.
Interconnector surplus (IC surplus)		One of the components of the net welfare distributional analysis calculated by the dynamic dispatch model (DDM), consisting of changes in wholesale market costs, changes in capacity market revenue and changes in GB interconnector costs.
Interface		A boundary across which two independent entities meet and interact or communicate with each other. For MHHS, this will be as defined in the design, either using the new DIP, the DTN, the DSP DUIS interfaces or other means as defined.
Interim Information (II) settlement Run	II	First timetabled settlement run
Internet Protocol	IP	The Internet Protocol is the network layer communications protocol in the Internet protocol suite for relaying datagrams across network boundaries. Its routing function enables internetworking, and essentially establishes the Internet.
Internet Service Provider	ISP	An organisation that provides services for accessing, using, or participating in the Internet.
JavaScript Object Notation	JSON	JSON is an open standard file format and data interchange format that uses human-readable text to store and transmit data objects consisting of attribute–value pairs and arrays. It is a common data format with diverse uses in electronic data interchange, including that of web applications with servers.
kilo-Watt hour	kWh	The kilowatt-hour is a unit of energy equal to one kilowatt of power sustained for one hour or 3600 kilojoules

MHHS Programme Glossary

Lead Delivery Partner	LDP	Lead Delivery Partner (Expleo) supporting the SRO function for the delivery of MHHS. To deliver the Central Programme Team (CPT), Programme Management Office (PMO), System Integrator (SI), and Programme Party Coordinator (PPC) functions of the Programme.	
Licensed Distribution System Operator	LDSO	LDSOs are the companies that are licensed by Ofgem to maintain and manage the electricity distribution networks in Great Britain.	DNO, DSO
Line Loss Factor Class Identifier	LLFC ID	An identifier used by LDSOs to identify an MPANs charging band.	
Line Loss Factor Identifier	LLF ID	An identifier that allow the appropriate LLF to be identified for the line losses calculation.	
Line Loss Factors	LLF	The mechanism by which the energy lost in the transportation of electricity through the Distribution Network system is calculated and accounted for.	
Load Shape		A Load Shape is a set of daily average consumption or export data for each Settlement Period in Coordinated Universal Time (UTC) for a Categorisation of Metering System in the population. It is derived and provided by the Load Shaping Service and will be delivered as part of the MHHS TOM.	LSS
Load Shape Category	LSC	Are the Categories set out in ISD.	
Load Shaping Methods	LSM	The methodologies used by the LSS calculate Load Shapes and their totals.	
Load Shaping Run	LSR	Are the calculation runs undertaken by the LSS	
Load Shaping Service	LSS	The Load Shaping Service (LSS) is the service within the MHHS TOM that calculates load shapes from valid Settlement Period level data accessed from the Processing Services. The Load shape data will then be used by the Processing Services (PSS) to convert Register Readings (RRs) or Daily Consumption values into Settlement Period level data.	Load Shape
Load Shaping Timetable		A timetable that show when load shaping runs are undertaken by the LSS	
Load shifting		The movement of electricity consumption to different times of the day, usually from peak to off-peak times, in response to a price or other signal.	
Low Carbon Contracts Company	LCCC	LCCC's primary role is to manage CFDs with low carbon generators throughout their lifetime, which involves management of the contracts as well as the Supplier Obligation Levy that funds CFD payments	
Managed Service Provider	MSP	Businesses that support other businesses by providing systems and services to simplify their operations in the energy market	
Market Domain Data	MDD	The reference data (including Profile Classes and Grid Supply Point Groups) used by all suppliers, supplier agents and licensed distribution system operators in the electricity market to facilitate the operation of the Suppliers Volume Allocation Trading Arrangements.	

MHHS Programme Glossary

Market Participant ID	MPID	Market Participants are any party that interact with Settlement or other industry process. Each valid participant has a Market Participant Identifier (MPID) defined in Market Domain Data (MDD). MDD will be replaced by revised or new standing data which is referred to as Industry Standing Data (ISD) in the MHHS Programme TOM design.
Market Segments		<p>The three Market Segments are:</p> <p>The Smart and Non-smart (S)</p> <ul style="list-style-type: none"> - Smart Meters with Settlement Period level data available - Smart Meters with only Register Readings available - Non-smart Meters with Register Readings <p>Advanced</p> <ul style="list-style-type: none"> - Advanced Metering Systems with Settlement Period level data available <p>Unmetered</p> <ul style="list-style-type: none"> - Unmetered Supplies.
Market Wide		Market-wide in the context of the Significant Code Review (SCR) means the Settlement of Settlement Period data where such data can be accessed subject to data privacy and data access policy. Market-wide in the context of Services means a service which would provide cross-segment-aggregation.
Market Wide Data Service	MDS	The Market-wide Data Service (MDS) is the service that provides integrity checks and calculations on Settlement Period level data ingested by BSC Central Settlement Systems from the Processing Service(s) (Smart), the Advanced Retrieval and Processing Service and the Unmetered Supplies Data Service.
Market-wide Half-Hourly Settlement	MHHS	Market Wide Half-Hourly Settlement will utilise the ability of smart meters to record a customer's usage during each half hour period to move domestic and small non-domestic customers to half-hourly settlement. Medium and larger non-domestic consumers have been settled half-hourly since BSC modification P272.
Measurement Class		<p>A classification of Metering Systems which indicates how Consumption is measured:</p> <p>Measurement Class Id - Description</p> <ul style="list-style-type: none"> A - Non Half Hourly Metering Equipment B - Non Half Hourly Unmetered Supplies C - Half Hourly Metering Equipment at above 100 kW Maximum Demand Premises D - Half Hourly Unmetered Supplies E - Half Hourly Metering Equipment at below 100kW Premises with current transformer F - Half Hourly Metering Equipment at below 100kW Premises with

MHHS Programme Glossary

		current transformer or whole current, and at Domestic Premises G - Half Hourly Metering Equipment at below 100kW Premises with whole current and not at Domestic Premises	
Mega-Watt hour	MWh	A Megawatt-hour, or MWh, is a Unit of energy equal to one million watts of electrical power operating (consumed or generated) for 1 hour.	
Meter Advance		The Meter Advance is the energy value (kWh) calculated by differencing the latest Register Reading from the previous Register Reading obtained from a Metering System.	
Meter Asset Provider	MAP	Businesses that finance the provision (asset cost) and installation of smart meters, generally by amortising the cost of the asset and installation over a period of time.	
Meter Data Retriever	MDR	This is a sub-service of the Smart Data Service. It is the entity responsible for connecting to the DCC, and retrieving smart metering data for MHHS purposes. Registered Suppliers may choose to perform this role themselves or appoint a third party MDR service provider.	
Meter Equipment Manager	MEM	The REC Term for a gas or electricity Meter Operator	MOP, NHHMO, HHMO
Meter Operator	MOP	Responsible for installing, commissioning, testing, maintaining and rectifying faults in respect of metering equipment. Also responsible for maintaining Meter Technical Details and providing such details to the relevant Data Collector. As carried out by a party appointed by an electricity supplier in accordance with Section L of the BSC.	MOA, NHHMO, HHMO. MEM
Meter Point Administration Number	MPAN	A Meter Point Administration Number, also known as MPAN, Metering System Identifier (MSID) under the BSC, Supply Number or S-Number, is a 21-digit reference used in Great Britain to uniquely identify electricity supply points.	
Meter Point Administration Service	MPAS	Maintains an up-to-date record of the supply of electricity to every location in the UK, operated by the DNOs	
Meter Point Registration Systems	MPRS	REC defined term for Registration Systems	SMRS

MHHS Programme Glossary

Meter Reading Service	MRS	The Meter Reading Service (MRS) is the service in the MHHS TOM that provides Register Readings (RRs) for Meters where Settlement Period Level data is not available or cannot be accessed from Meter in the smart and non-smart Market Segments.	
Meter Technical Details	MTD	The details required to interpret data from a meter correctly.	MSMTD
Metering Service	MS	The MHHS Target Operating Model (TOM) created the concept of Metering Service participants, these organisations are analogous to MOP's in the current market model.	
Metering Service (Advanced) / Advanced Metering Service	MSA	The Metering Service (Advanced) (MSA) is the service in the MHHS TOM that is responsible for the installation and maintenance of Meters in the Advanced Market Segment.	
Metering Service (Smart)	MSS	The Metering Service (Smart) (MSS) is the service in the MHHS TOM that is responsible for the installation and maintenance of Meters in the smart and non-smart Market Segments.	
Metering System Meter Technical Details	MSMTD	The details required to interpret data from a meter correctly.	MTD
MHHS Participant		As defined in BSC Section C: "MHHS Participant" means each of: (a) BSCCo (but excluding its role as MHHS Implementation Manager); (b) each Supplier; (c) each Licensed Distribution System Operator; (d) the DCC; (e) each MHHS Affected Code Body; (f) each Data Collector; (g) each Data Aggregator; (h) each Meter Operator Agent; and (i) any other person or category of person which the Authority directs.	
MHHS Programme Party		Means an Organisation (or Person) who, in the regular course of its business, will interface with the MHHS Programme. The term does not include a reference to a retail consumer.	Programme Parties
Migration		Moving the servicing of MPANs from the current Market Roles to servicing them under the TOM Services (CCDG Definition, captured in the Migration Working Group Terms of Reference)	
Minimum Viable Cohort	MVC	Consists of the central systems and sufficient early adopters to enable the solution to go live. The early adopters have to consist of the right functional elements to allow the market to function - therefore will include the central systems, (i)dnos, suppliers and service providers.	
Modification	Mod	A proposed modification to industry Codes (e.g. BSC, SEC, REC) raised and processed in accordance with Code processes	
Mutual Transport Layer Security	mTLS	Mutual Transport Layer Security (mTLS) is a process that establishes an encrypted TLS connection in which both parties use X.509 digital certificates to authenticate each other	
National Cyber Security Centre	NCSC	An organisation of the United Kingdom Government that provides advice and support for the public and private sector in how to avoid computer security threats	

MHHS Programme Glossary

National Grid Electricity System Operator	NGESO	NGESO is the System Operator for the electricity transmission system in Great Britain, with responsibility for making sure that electricity supply and demand stay in balance and the system remains within safe technical and operating limits.	SO
National Grid Electricity Transmission	NGET	Owns and maintains the onshore electricity transmission assets in England and Wales	
National Institute of Standards and Technology	NIST	A physical sciences laboratory and non-regulatory agency of the United States Department of Commerce	
Net Present Value	NPV	NPV is a generic term for the sum of a stream of future values (that are already in real prices) that have been discounted to bring them to today's value.	
Net Zero		In June, 2019 the UK legislated by amending section 1(1) of the Climate Change Act, which now provides that it is the Secretary of State's duty to ensure that the net UK carbon account for the year 2050 is at least 100% lower than the 1990 baseline, by reducing emissions from all sectors of the economy.	
Network Access		Access is the nature of users' access to the electricity networks (for example, when users can import/export electricity and how much) and how these rights are allocated.	
Network and Information Systems Regulation	NISR	Regulations designed to protect the critical national infrastructure of EU countries in the event of a cyber attack	
New system customer		Those customers who had their smart / advanced meters installed or decided to change supplier / contract after the new MHHS data sharing framework entered into force.	
Non Functional Requirement	NFR	System attributes or properties such as security, reliability, performance, maintainability, scalability, and usability	
Non Functional Test	NFT	Testing relating to Non Functional Requirements	
Non Half-Hourly Data Aggregator	NHHDA	Data Aggregation agent in the Non Half Hourly Market	DA
Non Half-Hourly Data Collector	NHHDC	Data Collection agent in the Non Half Hourly Market	DC
Non Half-Hourly Metter Operator	NHHMO	Meter Operator agent in the Non Half Hourly Market	MOP
Non Half-Hourly Settlement	NHH	As part of the Settlement process, NHH Settlement is the arrangement for estimating how much energy a supplier's customer's use (or export) in each Settlement period (where their meter is not capable of recording energy usage for a Settlement Period. The arrangement uses Meter readings spanning longer intervals, e.g. days, weeks and months.	

MHHS Programme Glossary

Non Smart Meter		A non-smart Meter is a Meter that is either not compliant with the Smart Metering Equipment Technical Specifications (SMETS). These Meters include legacy non-smart Meters for customers refusing smart Meters, premises where smart Meters cannot be fitted, Meters with Advanced capability that cannot be moved into the Advanced Market Segment due to communication issues or Ofgem policy requirements.
Number of Displayed Register Digits		The number of digits prior to the decimal point displayed by the total cumulative register on an electricity smart meter.
Office of Gas and Electricity Markets	Ofgem	The Office of Gas and Electricity Markets (Ofgem) is responsible for protecting gas and electricity consumers in Great Britain. It is governed by the Gas and Electricity Markets Authority (GEMA).
Old system customer		Those customers who had their smart meters installed before the new MHHS data sharing framework entered into force, and have not decided to change supplier or contract since the framework entered into force.
On Behalf Of	OBO	On Behalf Of
Peak consumers		Those consumers whose electricity consumption is primarily concentrated at the times of the day when there is greatest demand on the grid, for example 4pm-7pm on weekdays.
Peer-to-peer energy trading		Trading energy through a platform where a network of computational entities or peer-to-peer (P2P) group is connected, each of which acts as a node for sharing data with the rest of the group rather than having a central server.
Performance Assurance Board	PAB	Administers performance compliance with the BSC
Performance Assurance Framework	PAF	The BSC Panel and the Performance Assurance Board use the Performance Assurance Framework to manage settlement risks.
Performance Assurance Reporting and Monitoring System	PARMS	The system used to record and monitor compliance by Suppliers with their obligations pursuant to the BSC
Personally Identifiable Information	PII	Personal Identifiable Information is any data that can be used to clearly identify an individual
Physical Design		A physical design is an arrangement of physical elements (system elements and physical interfaces) which provides the design solution for a product, service, or enterprise, and is intended to satisfy logical architecture elements and system requirements
Plan on a Page	POAP	Summarises a project plan in a graphical manner
Platform as a Service (PaaS)	PAAS	Platform as a service (PaaS) is a cloud computing model where a third-party provider delivers hardware and software tools to users over the internet.
Pre Integration Test	PIT	The testing phase before Systems Integration

MHHS Programme Glossary

Pre Production	PRE-PROD	A development environment that is used for testing prior to production (PROD)
Prepayment		A mode of payment where the consumer pays in advance for energy, also known as Pay As You Go energy. Prepayment is often used as a mechanism for debt collection from customers.
Present Value		PV is a generic term for a future value (that is already in real prices) that has been discounted to bring it to today's value.
Price Comparison Websites	PCWs	A website that compares the price of a particular product or service in different stores or from different companies
Processing Service (Smart)	PSS	The Processing Service (Smart) in the MHHS TOM is responsible for obtaining and validating and estimating (where needed) raw meter readings (both Settlement Period and Register Reads) from smart and non-smart Meters.
Production	PROD	The live operational environment can be referred to as referred to as PROD
Profile Administrator	PrA	This agent currently produces the Profiling deliverables that are used by the SVAA, Suppliers and the Supplier Agents.
Profile Class	PC	Consumers that are not settled using actual Meter readings for each Settlement period are grouped into one of eight Profile Classes. For each Profile Class, a load profile is created that estimates the consumption shape of the average consumer. This load profile (or variations of it) is used to determine the consumption in each half hour for all consumers assigned to the Profile Class. See also non-half hourly (NHH) Settlement.
Profiling and Settlement Review Group	PSRG	The PSRG was a sub-group of the Supplier Volume Allocation Group (SVG) from 2010-15. The PSRG reported to the BSC Panel and was tasked with maintaining the integrity of the settlement arrangements in the short to medium term as smart meters are rolled out.
Programme Implementation Plan	PIP	The Programme Implementation Plan is the detailed plan with timings that is being developed during the implementation phase for the TOM.
Programme Management Office	PMO	Programme Management Office function which will be delivered by the LDP. The PMO will act as the information hub for the Programme and provide a framework for managing the Programme's day-to-day activities.
Programme Participant	PP	A Programme Participant or an "MHHS Participant" means each of: BSCCo (but excluding its role as MHHS Implementation Manager); each Supplier; each Licensed Distribution System Operator; the DCC; each MHHS Affected Code Body; each Data Collector; each Data Aggregator; each Meter Operator Agent; and any other person or category of person which the Authority directs.

MHHS Programme Party

MHHS Programme Glossary

		<p>The MHHS PPC is responsible for full and effective co-ordination of MHHS Participants in relation to MHHS Implementation.</p> <p>Co-ordination role which will be delivered by the LDP. The PPC will, ahead of programme milestones, ensure that Programme Parties are ready to proceed into each phase through close direct engagement. The PPC will provide staff during the Design, Build, Integration, and Test (DBIT) phases (each P1 Milestone) to assess and ensure each Party is adequately prepared to report Programme Party readiness, challenge party responses for validation, and/or escalate and advise party readiness concerns.</p>
Programme Party Coordinator	PPC	
Programme Steering Group	PSG	<p>The PSG role is an senior-level group, where key issues, challenges and Level 1 milestone Programme planning are presented and steering group members make strategic decision which efficiently drives the MHHS Programme forward, delivers the new TOM and ensures the Programme keeps to plan.</p>
Qualification		<p>Qualification is the BSC process that assures that systems and processes (developed outside of BSC Central Systems control) which may interact with BSC Systems and other participant's systems will not introduce significant risks or issues to Settlement. This process currently applies to Supplier Agents. This process is part of the BSC performance assurance framework to manage settlement risks.</p>
Quality Assurance	QA	<p>a way of preventing mistakes and defects in manufactured products and avoiding problems when delivering products or services to customers</p>
Radio Telswitch Service	RTSA	<p>Service provided by ENA to Elexon to transmit radio signals to teleswitch meters.</p>
Ratcheted materiality		<p>Stepped increases in the threshold for which incorrect information will be considered of significance in decision-making.</p>
Real price		<p>Real price is the nominal price (i.e. current cash price at the time) deflated by a measure of inflation.</p>
Real terms		<p>Real terms is a reference to the value of expenditure at a specified general price level (calculated by dividing a nominal cash value by a general price index).</p>
Red Amber Green	RAG	<p>a traffic light symbolising the status of a project and tasks</p>
Register Readings	RR	<p>Register Readings are the Meter readings obtained from a Settlement Meters tariff registers. This could be the cumulative register, daily consumption log data or daily readings these readings may be taken remotely or read from the meter.</p>
Registrable Measurement Point	RMP	<p>REC term meaning the supply or metering point for gas and/or electricity identified in the Central Switching Service.</p>

MHHS Programme Glossary

Registration Data Provider	RDP	Many DNOs have contracted with a separate organisation to provide their MPAS service, these organisations are referred to as the 'Registration Data Provider'
Registration Service	SMRS	The Registration Service is the LDSO service that holds Meter point standing data information about each MPAN within its distribution Region. Data includes the BRP the processing and metering services appointed to the MPAN. It also includes information on the type of customer, the Measurement Class, Energisation Status and Line Loss Factor Class.
Registration Service	REGS	A Target Operating Model service which manages data relating to the ownership of supply points and other detailed information pertinent to Settlement Metering Systems
Related MPANs		A Related MPAN is where two NHH Meters, registered with a single Suppliers, are at the same site. This typically occurs where one MPAN covers the heating load and the other MPAN is the rest of the load for the site.
Request for Information	RFI	A Request for Information is a request to collect additional information, beyond the data collected in routine monitoring.
Request for Proposal	RFP	a business document that announces a project, describes it, and solicits bids from qualified contractors to complete it.
Request for Proposal	RFP	A request for proposal is a document that solicits proposal, often made through a bidding process, by an agency or company interested in procurement of a commodity, service, or valuable asset, to potential suppliers to submit business proposals
Requirements Traceability Matrix	RTM	A document that demonstrates the relationship between requirements and other artifacts. It's used to prove that requirements have been fulfilled. And it typically documents requirements, tests, test results, and issues
Residual charges		Supplementary to Forward-looking charges, residual charges are top-up network charges which ensure that the appropriate amount of allowed revenue is collected from demand users once forward-looking charges have been levied. The amount of revenue which needs to be recovered from residual charges does not change when individuals use the system differently.
Responsible, Accountable, Consulted and Informed	RACI	These are the categories that would be typically found in a Responsibility Assignment Matrix and RACI is generally used as shorthand to describe who takes on those roles/responsibilities for tasks, deliverables and outcomes in a project.
Retail Energy Code	REC	A code that consolidates the switching arrangements set out in the Master Registration Agreement (MRA) and the Supply Point Administration Agreement (SPAA) (for gas) into one dual-fuel code, and also replaces the Green Deal Arrangements Agreement (GDAA)

MHHS Programme Glossary

Retail Energy Code Company	RECCo	The company that is established to manage and oversee the development of the Retail Energy Code (REC).	
Retail Energy Code Manager	REC Manager	The REC Manager plans and manages the delivery of the REC, ensuring that the objectives of the REC are met.	
Retail Energy Location	REL	An address introduced by the FSP into the REC obligations. The REL provides a clearly identifiable, standardised address which enables the correct meters to be identified and switched at any given property, in a reliable and efficient manner matching and consolidating the Location of Gas Meter Point (MPL) Location & Electricity MPL.	
RIIO-2 (Revenue = Incentives + Innovation + outputs)	RIIO	RIIO is the network price control model employed by Ofgem. The model adjusts a network company's allowed revenues depending on metrics related to incentives, innovation and outputs.	
Risks, Issues, Assumptions and Dependencies	RAID	As in the description - programme managed to maintain successful delivery.	
Role Based Access Control	RBAC	An approach to restricting system access to authorised users	
Secure Data Exchange Portal	SDEP	The portal used by REC parties to securely exchange data - governed by the REC	SDES
Secure Data Exchange Service	SDES	The REC governed web service that allows parties to securely exchange data. Also includes the crossed meter resolution portal and metering point requests. The service is used by Suppliers, Networks and the REC code manager.	SDEP
Security Design Working Group	SDWG	Level 4 MHHS Group looking at Security Design and developing key information security artefacts	
Sender Unique Reference	SUR	Each individual message will be uniquely identified with a Sender Unique Reference by the Sender and the DIP will provide a corresponding Transaction Id for each message	
Senior Responsible Owner	SRO	<p>The senior responsible owner is ultimately accountable for a programme or project meeting its objectives, delivering the projected outcomes and realising the required benefits. He or she is the owner of the business case and accountable for all aspects of governance.</p> <p>Exelon is the SRO for the MHHS programme. The MHHS SRO is responsible for delivery of MHHS Implementation in accordance with the MHHS Implementation Timetable, and is accountable for ensuring that MHHS Implementation delivers the MHHS Target Operating Model and achieves the other outcomes specified by the Authority as part of the market wide half-hourly settlement Significant Code Review. The MHHS SRO shall perform its role in accordance with the design and implementation baselines determined by the Authority, as they are amended from time to time in accordance with the MHHS Governance Framework.</p>	

MHHS Programme Glossary

Service Request	SR	DCC term for requests and message interchange on their network	SRV
Settlement Day	SD	The period from 00:00 hours to 24:00 hours on each day	
Settlement Operations		MHHS programme term meaning the activities of Elexon (outside of the programme) to support the delivery of settlement calculation and reporting	
Settlement Period	SP	The period over which contracted and metered volumes are reconciled. This is defined as a period of 30 minutes. See also settlement process.	Settlement Process
Settlement Period Consumption		Settlement Period Consumption data is consumption data that is the granularity of the Settlement Period this could be actual data obtained directly from the Meter or data derived from Register Readings or Unmetered Supplies that is processed by the MDS to Settlement Period granularity.	
Settlement Period Level Consumption Data		Settlement Period Level Consumption data is consumption data that is the granularity of the Settlement Period this could be actual data obtained directly from the Meter or data derived from Register Readings or Unmetered Supplies that is processed to Settlement Period granularity.	
Settlement Period Level Data		Settlement Period level data is consumption or export meter data that is the granularity of the Settlement Period. This is either actual data (as recorded by the Meter), or data derived from Register Readings, or data derived from the Unmetered Supply (that is calculated for a Settlement Period).	
Settlement Process		In the context of this report Settlement process refers to the Imbalance Settlement arrangements. Settlement places incentives on generators and suppliers to contract efficiently to cover what they produce or their customers consume (or produce) respectively. For suppliers, it operates by charging for any difference between the volumes of electricity that they buy and the volume that their customers consume.	
Significant Code Review	SCR	The SCR process is an Ofgem led process that is designed to facilitate complex and significant changes to a range of industry codes. It provides a role for Ofgem to undertake a review of a code-based issue and play a leading role in facilitating code changes through the review process. MHHS is being implemented from the Electricity Settlement Reform Significant Code Review	
Smart and Non Smart Market Segment		The Smart and non-Smart Market Segment is the Market Segment that covers smart Meters serviced by the DCC. This covers smart Meters with Settlement Period level data available and smart Meters	

MHHS Programme Glossary

		where only Register Readings are available. It also covers non-smart Meters.
Smart Data Services	SDS	The Smart Data Services in the MHHS TOM comprise the Meter Data Retrieval Service, Processing Service (Smart) and Meter Reading Service, which together enable settlement of the Smart and Non-smart Market Segments.
Smart Energy Code	SEC	The Smart Energy Code (SEC) is a multi-Party agreement, coming into force under the DCC Licence, which defines the rights and obligations of energy suppliers, network operators and other relevant parties involved in the end to end management of smart metering in GB.
Smart Export Guarantee		The Smart Export Guarantee is an obligation established by the government, imposed on electricity suppliers with at least 150,000 domestic electricity customers, to offer an export tariff and make payments to small-scale low-carbon generators for electricity exported to the grid. This came into effect in January 2020.
Smart Meter		A smart Meter is a Meter which is compliant with the Smart Metering Equipment Technical Specifications (SMETS). In addition to traditional metering functionality (measuring and registering the amount of energy that passes through it), a smart Meter is capable of providing additional functionality such as recording consumption/export in each half hour of the day and of being remotely read and configured
Smart Meter Equipment Technical Specifications	SMETS	Smart Meter Technical Specifications (SMETS) are the specifications that set out the minimum technical requirements for Smart Meters. The SMETS are governed by the Smart Energy Code (SEC).
Smart Meter System Operator	SMSO	DCC term that means the party that provides some or all of the data and/or communications services in respect of SMETS1 smart meters
Smart Metering Equipment Technical Specifications 1	SMETS1	The first generation of smart meters in GB compliant with v1 of the SMETS.
Smart Metering Equipment Technical Specifications 2	SMETS2	The second generation of smart meters in GB compliant with v2 of the SMETS.
Smart Metering Implementation Programme	SMIP	Programme to install smart meters for all homes and businesses in GB owned and executed by BEIS.
Smart tariff		This is a catch all term that could refer to any tariff enabled by a smart meter but which specifically does not refer to tariffs available with traditional meters, including Economy 7 tariffs.
SMETS1 Service Provider	S1SP	A DCC service provider managing a specific cohort of SMETS1 meters
Solar photovoltaic	Solar PV	Electricity generated by solar panels.
Sponsor		Ofgem is the Sponsor for the MHHS Programme within the new governance structure.
Standard Settlement Configuration (or Class)	SSC	How a Non Half Hourly meter is configured for settlement.

MHHS Programme Glossary

Standard Variable Tariff	SVT	An SVT (sometimes called a standard energy tariff) is an energy supplier's default tariff	
Standing data		Stored information which remains static for a sustained period of time, as it does not often change.	
Static Time of Use tariff		A Time of Use tariff that fixes in advance the peak and off-peak periods for electricity consumption and the prices that apply at these times. This is where customers are charged a lower price at specified off-peak times that are consistent day to day or week to week, reflecting the fact that electricity is generally cheaper to generate and transport at these times. (Some static time of use tariffs could have different weekday and weekend rates).	ToU
Subject Matter Expert	SME	Expert in a specific topic	
Supplier	SUP	The electricity supplier - the licensed retailer of electricity	Electricity Supplier
Supplier agents		Supplier agents can carry out certain functions related to settlement on behalf of suppliers, including data collection, data aggregation and meter operation.	
Supplier Meter Registration Agent	SMRA	Means a LDSO acting in its capacity as the provider of a SMRS	
Supplier Meter Registration Service	SMRS	The Registration Service is the LDSO service that holds Meter point standing data information about each MPAN within its distribution Region. Data includes the BRP the processing and metering services appointed to the MPAN. It also includes information on the type of customer, the Measurement Class, Energisation Status and Line Loss Factor Class.	MPRS, MPAS
Supplier of Last Resort	SoLR	Appointed by Ofgem in the event of a supply business failing	
Supplier Volume Allocation Agent (BSC Agent)	SVAA	BSC Agent for Supplier Volume Allocation	
Supplier Volume Allocation arrangements	SVA	Within the BSC, the SVA arrangements provide the mechanism for determining the allocation of energy volumes to Suppliers in each Settlement Period of the day.	
Supply Start Date	SSD	The date a consumer changes to a new energy supplier	CoS Date
Swagger		The OpenAPI Specification, previously known as the Swagger Specification, is a specification for a machine-readable interface definition language for describing, producing, consuming and visualizing RESTful web services. The programme has created Swagger definitions for the DIP messages in the interface catalogue	
Switching Programme	FSP	As per Faster Switching Programme	
Switching Public Key Infrastructure	SWIKI	The PKI operated by DCC to support their Central Switching Service	

MHHS Programme Glossary

System Operator	SO	The entity charged with operating the Great Britain high voltage electricity transmission system, currently National Grid Electricity Transmission Plc.	NGESO
System Security Plan	SSP	Formal document that provides an overview of the security requirements for an information system and describes the security controls in place or planned for meeting those requirements.	
Systems Integration Test	SIT	Testing the integration of systems and packages	
		The MHHS SI is responsible for securing the robust and stable integration of the IT Systems to be used by MHHS Participants for the purposes of market-wide, half-hourly Settlement. The MHHS SI is responsible for securing the robust and stable integration of the IT Systems to be used by MHHS Participants for the purposes of market-wide, half-hourly Settlement. The MHHS SI is responsible for securing the robust and stable integration of the IT Systems to be used by MHHS Participants for the purposes of market-wide, half-hourly Settlement.	
Systems Integrator	SI	Systems Integrator function which will be delivered by the LDP - both a Systems and a Services Integrator role.	
Target End State		The Target End State is deemed to be when the majority of customers will have a Meter capable of delivering Settlement Period level meter data for Settlement purposes.	
Target Operating Model	TOM	The Target Operating Model is the settlement arrangements designed by the Design Working Group (DWG), and further developed by the Code Change and Development Group (CCDG) and the Architecture Working Group (AWG) that will facilitate Market-wide Half Hourly Settlement.	
Targeted Charging Review		The Targeted Charging Review has examined the 'residual charges' which recover the remaining costs of the electricity network that are not recovered through forward-looking charges, and the differences in charges faced by smaller distributed generators and larger generators (known as Embedded Benefits).	
Technical Design Working Group	TDWG	Level 4 MHHS Group looking at technical design matters and developing relevant design artefacts such as functional specifications and non functional requirements	

MHHS Programme Glossary

		<p>This agent monitors the messages concerning contact switching times sent under the Radio Teleswitch Agreement to SVA Metering Systems equipped with a teleswitch. The agent provides a daily service that prepares a data interface file of teleswitch contact switching times reflecting actual messages broadcast for that day and transmitting the file to the SVAA on a daily basis.</p> <p>It maintains a log archive recording the provision of details of teleswitch messages and reports to the SVAA any known or suspected failures in the monitoring and provision of messages. The teleswitch times are then used by the SVAA to calculate the half-hourly consumption values for Non Half Hourly meters.</p>
Teleswitch Data Services Agent	TSDA	
Testing Advisory Group	TAG	L3 MHHS Governance Group
Third Party Intermediary		<p>This refers to an organisation or individual that give energy-related advice, aimed at helping consumers to buy energy and/or manage their energy needs. TPIs include switching sites, energy brokers and any company that offers support with energy procurement.</p>
Time of use tariffs	ToU	<p>Energy tariffs that charge different prices at different times of the day, week, month or year are known as time-of-use tariffs. See also dynamic time-of-use tariff and static time-of-use tariff.</p>
Trading and Disputes Committee	TDC	<p>The Trading Disputes Committee (TDC) ensures that all Trading Disputes and Manifest Errors are resolved so that errors are corrected and the integrity of Settlement maintained.</p>
Trading Party		<p>Under the BSC a Trading Party means a Party, other than the Transmission Company, which holds energy accounts. These are typically suppliers, generators and energy traders.</p>
Trans European Replacement Reserve Exchange	TERRE	<p>TERRE is a European Union project which aims to develop a platform for market participants in participating European countries to trade energy with one-another.</p>
Transition		<p>The end to end process of getting from the current state to the Target End State for the TOM (as defined by CCDG and described in the Migration Working Group Terms of Reference)</p>
Transition Approach		<p>The Transition Approach sets out the key milestones and dependencies for moving to the TOM from the existing market services and Settlement arrangements</p>
Transport Layer Security	TLS	<p>A cryptographic protocol designed to provide communications security over a computer network</p>
UK General Data Protection Regulation	GDPR	<p>Originally a regulation in EU law (Regulation (EU) 2016/679) providing for the protection of personal data in relation to processing and sharing, which has been retained in domestic law following the UK's withdrawal from the European Union.</p>
Uniform Resource Identifier	URI	<p>A unique sequence of characters that identifies a logical or physical resource used by web technologies</p>

MHHS Programme Glossary

Uniform Resource Locator	URL	A reference to a web resource that specifies its location on a computer network and a mechanism for retrieving it
Unmetered Supplies	UMS	Unmetered Supplies (UMS) means a supply of electricity to a particular inventory of equipment in respect of which a Licensed Distribution System Operator (LDSO) has issued an Unmetered Supply Certificate. For example, this equipment could be any electrical equipment that draws a current and is connected to the Distribution Network without a Meter, i.e. there is no Meter recording its energy consumption, e.g. street lights, traffic signs, zebra crossings, etc.
Unmetered Supplies Data Service	UMSDS	The Unmetered Supplies Data Service (UMSDS) in the MHHS TOM is the service that calculates Settlement Period Level consumption data for unmetered supplies.
Unmetered Supplies Market Segment		The Unmetered Supplies Market Segment is the Market Segment for Unmetered Supplies, e.g. street lights, traffic signs, zebra crossings, etc.
Unmetered Supplies Operator	UMSO	The Unmetered Supplies Operator (UMSO) is the service that interfaces with the Unmetered Supplies (UMS) customer and other industry stakeholders. The UMSO Service is provided by the Distribution Business.
Unpriced Carbon		This quantifies the difference between the European Emissions Allowance (EUA) carbon price and the societal value of carbon as defined by the Government's appraisal value.
User and Entity Behaviour Analytics	UEBA	The process of gathering insight into the network events that users generate every day. Once collected and analysed, it can be used to detect the use of compromised credentials, lateral movement, and other malicious behaviour.
User Entry Process Test	UEPT	Market entry testing for users
User Integration Test	UIT	A test whereby real-life users are involved to evaluate the usability of a component or system
UTC Period Level Consumption Data	UTCP	Refers to consumption or export data that is of UTC Period Granularity. This is either actual data (as recorded by the Meter), or data derived from Register Readings, or data derived from the Unmetered Supply (that is calculated for a Settlement Period)
VAS Timetable		a timetable that defines when Settlement Runs are undertaken by the MDS, VAS and SAA Services.
Vehicle-to-Grid services	V2G	Services that enable electric vehicle (EV) users to return energy stored in their EV batteries to the grid when electricity is in high demand.
Virtual Power Plant	VPP	An interconnected network of decentralised, medium-scale power generating units (wind farms, solar parks), as well as flexible power consumers and storage systems. These can be dispatched from a central 'control room' with the aim of relieving the load on an

MHHS Programme Glossary

		electrical grid by smartly distributing the power generated by the individual units during peak load periods.
Volume Allocation Run	VAR	A Volume Allocation Run (VAR) is a scheduled Settlement run that allocated Supplier Metered volumes to BMUs for each GSP Group. The VAR ensures the BMU allocated energy is corrected such that the total volume matches the energy in the GSP Group Take for each Settlement Period.
Volume Allocation Service	VAS	The Volume Allocation Service (VAS) is the service that processes Settlement Period level data provided by the Market-wide Data Service (MDS). The processed data is allocated to Balancing Mechanism Units (BMUs).
Working Days	WDs	Monday to Friday, excluding bank holidays