

Annex E – Standards Definition Document

1. The document below shows changes to the Energy Market Data Specification - Standards Definition Document, which are highlighted in red.

Energy Market Data Specification

Standards Definition Document

Version: 3.1

Effective Date:

TBC

Change History

Version Number	Implementation Date	Reason for Change
0.1	N/A	Version agreed for publication Summer 2020
0.2	N/A	Draft for review at Data Specification WebEx meeting
0.3	N/A	Draft for December Consultation
0.4	N/A	Final Draft following December 2020 Consultation
2.2	31 January 2022	R0012
2.3	30 June 2022	R0008
2.4	30 June 2023	R0090, R0101
2.5	08 November 2024	R0113
3.0	22 September 2025	R0209, R0264
3.1	TBC	Designated by DESNZ

Contents

- 1 Introduction 5
- 2 Energy Market Data Specification Object Classes..... 5
- 3 Energy Market Data Specification Meta Data Model Relational DataModel Diagram 24
- 4 Data Access Matrix..... 24
- 5 Energy Market Data Item Catalogue..... 24
- 6 Energy Market Message Scenario Variant Catalogue 24

1 Introduction

- 1.1 The Energy Market Data Specification has been developed to create a common set of standards for all industry data represented within the Energy Market Architecture Repository (EMAR). Data has been consolidated from existing industry codes, creating a common standard for documenting all relevant industry data and messaging, associated to several different Physical Messaging Standards.
- 1.2 Physical Messaging Standards are defined by the Service Providers responsible for their respective Messaging Services, governed under this Code or other relevant Energy Codes¹. The Energy Market Data Specification defines which permissible Physical Messaging Standards apply to each message.²
- 1.3 The creation of a common standard has resulted in changes to how data and messaging is logically represented in comparison to legacy code documentation, however the common standard does not require any changes to any existing Physical Messaging Standards.

2 Energy Market Data Specification Object Classes

- 2.1 This section provides a definition of each Object Class³ within the Data Specification and each Object Class' associated Data Elements⁴.
- 2.2 The Data Specification Metadata Model is represented by a relational data model diagram, shown in Annex A.

Datatype Format

- 2.3 An Energy Market Data Item will conform to a Datatype Format:

Datatype Format Name	Datatype Format Definition
string	A general character string.
boolean	Two values permitted representing true or false.
number	Only numeric characters 0 to 9, minus sign and decimal point characters permitted.

Datatype Format Rule

- 2.4 A Datatype Format Rule supports a specific datatype validation requirement for one or more Physical Messaging Standards. Whilst this creates additional complexity it is required to support existing and legacy code standards without a requirement for physical change.⁵

¹ The Data Spec comprises data governed under the SEC, REC, BSC, UNC, IUNC and DCUSA.

² The Permissible Message Means Object Class defines the Physical Messaging Standard applicable for each Energy Market Message (see Paragraph 2.14 of this document).

³ The meaning of Object Class is defined in ISO 11179

⁴ The meaning of Data Element is defined in ISO 11179

⁵ For example, the datatype format Boolean is related to two data type format rules, which support the requirements of different Physical Messaging Standards.

2.5 An Energy Market Data Item will conform a to a Datatype Format Rule:

Datatype Format Rule Name	Datatype Format Rule Definition	Related Datatype Format Name
high resolution datetime	A high resolution datetime format conforming to RFC3339.	string
calendar date	A calendar date, represented in the following convention: YYYYMMDD.	number
24-hour time	A calendar time in an unstated calendar day. Represented in the following convention: hhmmss.	number
Universally Unique Identifier (UUID)	An identifier conforming to the standard RFC4122.	string
time stamp	A high resolution, local time in a calendar day. Represented in the following convention: YYYYMMDDhhmmss.ssssss.	string
datetime	A calendar date and time represented by the following convention: YYYYMMDDhhmmss.	number
positive decimal number	A negative numeric value is not permissible, must contain a {.} character and all other characters must be numeric. The number of characters following the decimal point must be defined for each Energy Market Data Item subject to this rule.	string
decimal number	A positive or negative decimal number which must contain the {.} character and may contain a leading {-} character if the number is negative, all other characters must be numeric. The number of characters following the decimal point must be defined for each Energy Market Data Item subject to this rule.	string
integer	Only numeric characters permitted and no leading zero.	number
indicator (true/false)	A Boolean value domain of true or false.	boolean
indicator (T/F)	A Boolean value domain of T or F.	boolean
Edifact level B DTS Variant ¹	A general character string inclusive of all Edifact Level B	string
Edifact level B gas metering Variant ²	A general character string inclusive of all Edifact Level B characters, except for the " (quote) character; the _ (underscore) character is permitted.	String
Edifact Level B DTS Underscore Variant	A general character string inclusive of all Edifact Level B characters and the _ (underscore) character.	String
Edifact Level B DTS At Variant	A general character string inclusive of all Edifact Level B characters and the @ (at) character.	String
Edifact Level B DTS Square Brackets Variant	A general character string inclusive of all Edifact Level B characters and the [and] (square brackets) characters.	String

¹ The full list of acceptable character can be found in the Electricity Data Transfer Handbook

² The full list of acceptable characters can be found in the Gas DTS Handbook

Edifact Level B DTS At Underscore Variant	A general character string inclusive of all Edifact Level B characters and the @ (at) character and the _ (underscore) character.	String
Edifact Level B DTS Underscore Square Brackets Variant	A general character string inclusive of all Edifact Level B characters and the _ (underscore) character and the [and] (square brackets characters)	String
Monetary (DTS only Datatype Format Rule)	A positive or negative quantity of money in Pounds Sterling (£). Shall contain no delimiters and no leading zeros. Can be any physical length, must contain a {.} character, may contain a leading – sign if quantity is negative. The number of characters following the decimal point must be two.	Number
general character string	A general character string.	String

Energy Market Data Item

2.6 An Energy Market Data Item shall be composed of the following Data Elements:

Data Element Name	Data Element Definition	Requirement Type	Conditional Requirement Rule
energy market data item identifier	A unique identifier for an Energy Market Data Item.	Mandatory	
data item name	The meaningful title of an Energy Market Data Item.	Mandatory	
data item definition	A description of an Energy Market Data Item.	Mandatory	
dtc legacy reference	The unique identifier previously attributed to an Energy Market Data Item within the Data Transfer Catalogue.	Conditional	An Energy Market Data Item previously recorded in the Data Transfer Catalogue will retain a DTC legacy reference.
spaa legacy reference	The unique identifier previously attributed to an Energy Market Data Item within the gas Supplier Data Flow Catalogue.	Conditional	An Energy Market Data Item previously recorded in the Supplier Data Flow Catalogue will retain a SPAA legacy reference.
rgma legacy reference	The unique identifier previously attributed to an Energy Market Data Item within the RGMA Data Flow Catalogue.	Conditional	An Energy Market Data Item previously recorded in the RGMA Data Flow Catalogue will retain a RGMA legacy reference.
unc reference	The unique identifier of an Energy Market Data Item within the UKLink Manual.	Conditional	An Energy Market Data Item for with the UNC is the Meta Data Owner will be prescribed a UNC reference.
data item physical length	The maximum number of characters permissible for an Energy Market Data Item This includes the minus sign and decimal point for numeric data types. For example, -99.99 has a physical length of six.	Mandatory	
data item decimal length	The number of characters required to be present following a decimal point character. For example, -99.99 has a decimal length of two.	Conditional	Must not be null for an Energy Market Data Item if either the decimal number or positive decimal number data type format rule is applicable (paragraph 2.5).

Data item logical length	<p>For Number data type format, means the maximum number of characters permissible without any additional symbols. For example, -99.99 has a logical length of four.</p> <p>For String and Boolean data type format, if not null, all characters including symbols are counted. For example, -£99.99 has a logical length of seven.</p>	Conditional	Must not be null for an Energy Market Data Item if either the decimal number or positive decimal number data type format rule is applicable (paragraph 2.5).
datatype format rule identifier	A unique identifier for a Datatype Format Rule applicable to a specific Energy Market Data Item (paragraph 2.5).	Mandatory	
Data Item meta data owner	The relevant Energy Code (e.g. the BSC, REC, DCUSA, SEC or UNC) responsible for the configuration management of the meta data associated with the Energy Market Data Item. Changes to the meta data are administered via the change management or modification process under the relevant Energy Code, in conjunction with the administration of the Data Specification by the REC Code Manager as described in the Change Management Schedule.	Mandatory	
External Notes	The relevant notes to aid in understanding or usage of the Energy Market Data item.	Optional	
MHHS Legacy Reference	The unique identifier of an Energy Market Data Item created as part of the MHHS design.	Conditional	Must not be null for an Energy Market Data Item if it is within a DIP Market Message.
MHHS Data Classification	The classification of an Energy Market Data Item created as part of the MHHS design.	Conditional	<p>May be provided for an Energy Market Data Item if it is within a DIP Market Message, but not always.</p> <p>If provided, may either be</p>

			Public, Restricted, or Commercial in Confidence.
MHHS Nullable	An identifier to signify whether the Energy Market Data Item is nullable within DIP Market Messages.	Conditional	May be provided for an Energy Market Data Item if it is within a DIP Market Message, but not always. Where the Nullable status is not provided, the item will inherit the default state of nullable = false.
MHHS Data Type	The Data Type that the Energy Market Data Item has been categorised as for DIP Market Messages.	Optional	May be provided for an Energy Market Data Item if it is within a DIP Market Message. Only MHHS Energy Market Data Items that have been assigned to a 'common' Data Type will have an assigned MHHS Data Type. MHHS Data Types are defined within DIP Swagger.
YAML Name	The YAML name of the Energy Market Data Item for the purpose of transferring the Energy Market Data Item via the Data Integration Platform.	Optional	May be provided for an Energy Market Data Item if it is within a DIP Market Message. Some Energy Market Data Items do not have a YAML Name as they are not sent via the Data Integration Platform.

Data Item Enumeration

- 2.7 An Energy Market Data Item may have a value domain which is enumerated. If an Energy Market Data Item has a relationship to one or more Data Item Enumeration, then its permissible value domain shall be limited to those values only.

Data Item Market Role Governance

- 2.8 An Energy Market Data Item may be related to one or many Data Item Market Role Governance Data Services.
- 2.9 Data Item Market Role Governance identifies a Market Data Service which performs one of the Market Role Data Governance Types for an Energy Market Data Item referenced in the below table.

data governance type name	data governance type definition
authorised provider	A Market Data Service responsible for the storage of the data item within a central service and provision of that data, via Energy Market Messages to other Market Data Services. (e.g. the Electricity Enquiry Service provides this role for data items for which the CSS is the Data Master).
data master	A Market Data Service responsible for the stewardship of the data quality for the Data Item, responsible for the cleansing of that data and in most cases responsible for the creation and update of the Energy Market Data Item Value.
data responsible user	A Market Participant responsible for notifying the Data Master, on an ongoing basis, of improvements to data quality including if the fitness for purpose of an Energy Market Data Item has been compromised. Data Responsible Users are required to support the Data Master in data cleansing activities.

Energy Market Message

- 2.10 An Energy Market Message is composed of the following data elements:

Data Element Name	Data Element Definition	Requirement Type	Conditional Requirement Rule
energy market message identifier	A unique identifier for an Energy Market Data Item.	Mandatory	
dts message reference	An identifier unique to the Data Transfer Service, required for the purposes defined within that services Physical Messaging Standard.	Conditional	Electricity Energy Market Messages which have a related Permissible Message Means of data transfer service must have a dts message reference (paragraph 2.11).
rgma message reference	An identifier unique to the Data Transfer Service or UKLink Information Exchange, required for the purposes defined within those services Physical Messaging Standards.	Conditional	Gas Energy Market Messages which have a related Permissible Message Means of data transfer service and uklink information exchange must have a rgma message reference (paragraph 2.11).
spaa message reference	An identifier unique to the Data Transfer Service, required for the purposes defined within that services Physical Messaging Standard.	Conditional	Gas Energy Market Messages which have a related Permissible Message Means of data transfer service must have a spaa message reference (paragraph 2.11).
uklink file reference	An identifier unique to the UKLink Information Exchange, required for the purposes defined within that services Physical Messaging Standard.	Conditional	Energy Market Messages for which the UNC is the Meta Data Owner must have a uklink file reference.
css message reference	A reference utilised within the Switching Programme logical design, retained for illustrative purposes only.	Conditional	Energy Market Messages which have a related Permissible Message Means of central switching service communications must have a css message reference (paragraph 2.11).
mhhs message reference	An identifier unique to the Data Integration Platform, required for the purposes defined within the services Physical Messaging Standard.	Conditional	Electricity Energy Market Messages which have a related Permissible Message Means of Data Integration Platform must have an MHHS message reference (paragraph 2.11).
energy market message name	The meaningful title of an Energy Market Message.	Mandatory	
energy market message definition	A description of an Energy Market Message.	Mandatory	
dip delivery pattern	The delivery pattern of the Energy Market Message via the Data	Conditional	Electricity Energy Market Messages which have a related Permissible Message

	Integration Platform.		Means of Data Integration Platform must have a dip delivery pattern (paragraph 2.11).
security category	The security category of Energy Market Messages that are within DIP Market Message.	Conditional	Electricity Energy Market Messages which have a related Permissible Message Means of Data Integration Platform must have a security category (paragraph 2.11). Available Security Categories are: <ol style="list-style-type: none"> 1. Public Data 2. MPAN 3. MPAN + PII 4. MPAN + Consumption Data All Categories apart from Security Category 1 are Digitally Signed.

Permissible Message Means

2.11 Where required under code or for other technical, interoperability or security requirements; an Energy Market Message is related to one or more Permissible Message Means, which in turn are associated to a defined Energy Market Message Means Type as detailed in the table below:

message means type name	message means type description	physical messaging standard name	Message means abbreviation
data transfer service	It is permissible that the Energy Market Message is sent via the Data Transfer Service. The message must conform to the Physical Messaging Standard defined by the Data Transfer Service and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	User File Design Specification (UFDS) ⁷	DTS

central switching service communications	It is permissible for the Energy Market Message to be sent via the Central Switching Service APIs. The message must conform to the Physical Messaging Standard defined by the CSS; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	CSS Physical Message Standard ⁸	CSS API
uklink information exchange	It is permissible that the Energy Market Message is sent via the UKLink Information Exchange. The message must conform to the Physical Message Standard defined by Xoserve; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	UKLink Manual ⁹	IX
secure data exchange portal	It is permissible for the Energy Market Message to be only sent via the Secure Data Exchange Portal. Messaging must conform to the Physical Message Standard defined by the service provider; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	SDEP Physical Message Standard ¹⁰	SDEP
gas enquiry service api	It is permissible for the Energy Market Message to be only sent via a Gas Enquiry Service API. Messaging must conform to the Physical Message Standard defined by	GES Physical Message Standard ¹¹	GES API

⁷ This can be accessed via the DTS Portal.

⁸ This is currently provisioned via the Landmark Central Switching Development Portal.

⁹ This can be accessed via the Xoserve website.

¹⁰ To be developed by the service provider as a level 3 REC document

¹¹ To be developed by the service provider as a level 3 REC document

	Xoserve; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.		
electricity enquiry service api	It is permissible for the Energy Market Message to be only sent via an Electricity Enquiry Service API. Messaging must conform to the Physical Message Standard defined by the service provider; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	EES Physical Message Standard ¹²	EES API
ees ppmip file transfer	It is permissible for the Energy Market Message to be only sent via EES PPMIP File Transfer. Messaging must conform to the Physical Message Standard defined by the service provider; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	EES Physical Message Standard	EPPMIP
data service agreed means	It is permissible that the message is sent via any means agreed to by the Source Data Service and the Target Data Service. The Message must conform to, as a minimum, the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	Not applicable	DSA
business email	It is permissible that the message is sent via standard business email. The Message must conform to, as a minimum, the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	Not applicable	EMAIL
data integration platform	It is permissible for the Energy Market Message to be sent via the Data Integration Platform APIs. The message must conform to the Physical Messaging Standard defined by the DIP Manager; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	DIP Swagger	DIP API
tariff interoperability	It is permissible for the Energy Market Message to be sent via the Tariff Interoperability API. The message must conform to the Physical Messaging Standard defined by the Tariff Interoperability API Technical Specification; and the specification of each related Energy Market Scenario Variant defined within the Energy	TI API Technical Specification	TI API

	Market Data Specification.		
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Energy Market Message Scenario Variant

- 2.12 An Energy Market Message will be related to one or more Energy Market Message Scenario Variants. An Energy Market Message Scenario Variant will define the structure of a message sent between two Market Role Data Services under specific conditions or as the result of events which occur within a certain Energy Market Scenario¹³.
- 2.13 Energy Market Message Scenario Variants related to the same Energy Market Message will contain common elements, although each messages physical structure may differ, including but not limited to, its relationship to different Message Scenario Variant Collections (paragraph 2.16).

¹² To be developed by the service provider as a level 3 REC document

¹³ Market Scenarios will be developed by the Code Manager within the EMAR

2.14 An Energy Market Message Scenario Variant identifies a structured data communication undertaken between two Market Role Data Services, defined as the Source Data Service (the service which sends the message) and the Target Data Service (the service which receives the message). The data services defined within the Data Specification may be mapped, in some instances, to a Market Participant Role Code which is mastered by BSCCo and CDSP within their respective Market Domain Data repositories. The below table defines each Market Role Data Service represented within the Data Specification:

market data service abbreviation	additional market data service abbreviation	Market participant name
ADS		Advanced Data Service
AMVLP		Asset Metering Virtual Lead Party
BSC		Balancing and Settlement Code Company
CDSP		Gas Central Data Services Provider
CFD Generator Invoice Backing Data		Contract for Difference Generator Invoice Backing Data
CFD Settlement Services Provider		Contract for Difference Settlement Services Provider
CM Settlement Services Provider		CM Settlement Services Provider
CSS		Central Switching Service Provider
DCC		Smart Data Service Provider
DCUSA		Distribution Connection and Use of System Agreement Company
Distributor	LDSO	Distribution Network Operator
ECS		Exxon Central Systems
EES		Electricity Enquiry Service Provider
Electricity MAP		Electricity Meter Asset Provider
Electricity PPMIP		Electricity Pre-Payment Metering Infrastructure Provider
Electricity Supplier		Electricity Supplier
Energy Supplier		Energy Supplier
ERDA		Electricity Retail Data Agent
Gas MAP		Gas Meter Asset Provider
Gas PPMIP		Gas Prepayment Metering Infrastructure Provider
Gas Shipper		Gas Shipper

Gas Supplier		Gas Supplier
GD Licensee		Green Deal Licensee
GD Provider		Green Deal Provider
GD RemittanceProcessor		Green Deal Remittance Processor
GDCC		Green Deal Central Charge Database Provider
GES		Gas Enquiry Services Provider
GRDS		Gas Retail Data Agent
Grid Operator		Grid Operator
GRS Operator		GRS Operator
GT		Gas Transporter
HHDA		Half Hourly Data Aggregator
HHDC		Half Hourly Data Collector
LSS		Load Shaping Service
MA		Meter Administrator
MAM		Gas Meter Equipment Manager
MAP		Meter Asset Provider
MDR		Meter Data Retriever
MDDA		Market Domain Data Agent
MDS		Market-wide Data Service
MEM		Metering Equipment Manager
MOA		Electricity Meter Equipment Manager
MRS		Meter Reading Service
MSA		Electricity Advanced Meter Operator Agent
MSS		Electricity Smart Meter Operator Agent
NDC		Non-Domestic Consumer
NHHDA		Non-Half Hourly Data Aggregator
NHHDC		Non-Half Hourly Data Collector
REC		Retail Energy Code Company
RPS		Revenue Protection Agent
SDS		Smart Data Service
SEC		Smart Energy Code Company
SFIC		Supply Fault Information Centre Agent

SIP		Safe Isolation Provider
SMRS	REGS	Supplier Meter Registration Service
SUPC		Supplier – Current
SUPI		Supplier – Incoming
SUPL		Supplier – Linked (Import/Export)
SUPO		Supplier - Outgoing
SUPS		Supplier – Sending
SVAA		Supplier Volume Aggregation Agent
Teleswitch Agent		Teleswitch Agent
TPU		Third Party User
UMSDS		Unmetered Supply Data Service
UMSO		Unmetered Supplies Operator
UNC		Uniform Network Code
XDSC		Data Service – Current
XDSP		Data Service – Proposed
XDSS		Data Service – Sending
XMSC		Metering Service – Current
XMSP		Metering Service – Proposed
XMSS		Metering Service – Sending
XMSU		Metering Service – Incumbent
VAS		Volume Allocation Service
TI User		Tariff Interoperability User
TI Register		Tariff Interoperability Supplier Register

2.15 An Energy Market Message Scenario Variant is composed of the following Data Elements:

data element name	data element definition	requirement type	conditional requirement rule
energy market message scenario variant identifier	A unique identifier for an Energy Market Message Scenario Variant.	Mandatory	
energy market message scenario variant name	A meaningful title for an Energy Market Message Scenario Variant.	Mandatory	
energy market message scenario variant definition	A description of an Energy Market Message Scenario Variant.	Mandatory	
energy market message identifier	A unique identifier for the related Energy Market Message.	Mandatory	
source market role data service identifier	The unique identifier of the market data service which sends an Energy Market Message.	Mandatory	
target market role data service identifier	The unique identifier of the market data service which receives an Energy Market Message.	Conditional	Will not be provided for an Energy Market Message Scenario Variant if the EMMSV relates to a DIP Market Message. The Target for a DIP Market Message sent by the Source will be always be the DIP, with the always / primary / secondary identifiers signifying which roles receive the message from the DIP.
always market role data service identifier	The unique identifier of the market data service which always receives an Energy Market Message.	Conditional	Will only be populated for an Energy Market Message Scenario Variant if the EMMSV relates to a DIP Market Message. Not all DIP Market Messages EMMSVs will have an always market role data service identifier.
primary market role data service identifier	The unique identifier of the market data service which is the primary recipient of an Energy Market Message.	Conditional	Will only be populated for an Energy Market Message Scenario Variant if the EMMSV relates to a DIP Market Message. Not all DIP Market Message EMMSVs will have a primary market role data service identifier.
secondary market role data service identifier	The unique identifier of the market data service which is the secondary recipient of an Energy Market Message.	Conditional	Will only be populated for an Energy Market Message Scenario Variant if the EMMSV relates to a DIP Market Message. Not all DIP

			Market Message EMMSVs will have a secondary market role data service identifier.
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Message Scenario Variant Collection

2.16 An Energy Market Message Scenario Variant is related to one or more Message Scenario Variant Collections. The physical requirements related to the structure and implementation of a Message Scenario Variant Collection¹⁴ within a physical message is detailed within each Service Providers Physical Message Standard.

2.17 The Message Scenario Variant Collection attributes include the sequence the collection appears within a physical message, if the related Permissible Message Means requires collections to be sequenced (such as those based on delimited files); and rules or conditions relating to its modality or cardinality within a physical file. A Message Scenario Variant Collection instance is unique to an Energy Market Message Scenario Variant.

2.18 A Message Scenario Variant Collection is composed of the following data elements:

Data Element Name	Data Element Definition	Requirement Type	Conditional Requirement Rule
message scenario variant collection identifier	A unique identifier for a Message Scenario Variant Collection.	Mandatory	
message scenario variant collection modality	The minimum number of instances that a Message Scenario Collection must occur within an Energy Market Message Scenario Variant.	Mandatory	
message scenario variant collection cardinality	The maximum number of instances that a Message Scenario Collection may occur within an Energy Market Message Scenario Variant. A value of n denotes that no limit is specified.	Mandatory	
message collection requirement type identifier	The unique identifier of a Message Collection Requirement Type. Denotes if a Message Scenario Variant Collection is mandatory (1), optional (O), or conditional (C) within an Energy Market Scenario Variant.	Mandatory	

message collection conditional requirement rule	Describes the condition underwhich a Message Scenario Variant Collection is mandatory.	Conditional	Required if the message collection requirement type identifier relates to a conditional requirement type.
energy market message scenario variant identifier	The unique identifier of the Energy Market Message Scenario Variant to which this Energy Market Message Variant Collection is related.	Mandatory	
message collection message identifier	The unique identifier of a Message Collection Message. A Message Collection Message can be related to one or more Energy Market Message Scenario Variant Collections. The data elements of a Message Collection Message include those attributes which are common for collections within Energy Market Messages such as UKLink Record Name or DTS Group Identifier.	Mandatory	

¹⁴ E.g. A Message Scenario Variant Collection is defined as a Record within the UKLink Manual.

Message Scenario Variant Data Item

A Market Scenario Variant Collection is related to one or more Message Scenario Variant Data Items. A Message Scenario Variant Data Item enables the association of a unique instance of an Energy Market Data Item to a Message Scenario Variant Collection. Specific conditions are applicable to the Message Scenario Variant Data Item, or one or more Variant Data Item Value Rules can be related to a Message Scenario Variant Data Item.

2.19 A Message Scenario Variant Data Item is composed of the following data elements:

data element name	data element definition	requirement type	conditional requirement rule
message scenario variant data item identifier	A unique identifier for a message scenario variant data item.	Mandatory	
message scenario variant collection identifier	A unique identifier for a message scenario variant collection.	Mandatory	
data item collection data item identifier	A unique identifier for a data item collection data item.	Mandatory	
data item requirement type identifier	A unique identifier for a data item requirement type.	Mandatory	
data item requirement type rule	The unique identifier of the Market Data Service which sends an Energy Market Message.	Conditional	Mandatory if data item requirement type is conditional.

2.20 A data item requirement type can be one of the following values:

Data item requirement type name	Data item requirement type definition
Mandatory	The data item value must be not null.
Conditional Rule	A Conditional Rule determines if the data item is Not Present or a value is Mandatory.
Optional	A data item value can be null or not null.
Null	A data item value must be null.
Not Required	A data item value should be null.
Not Present	A data item must not be present within the Message Scenario Variant.
Address Mandatory	A record of address is mandatory within the message, each address data item is conditional on a value being present within the address source.
Address Optional	A record of address is optional within the message, each address data item is conditional on a value being present within the address source.
Address Conditional	A record of address is conditional within the message, each address data item is conditional on a value being present within the address source.

2.21 A Message Scenario Variant Data Item may also be associated to one or many Variant Data

Item Value Rules. Each rule is written in a standard notation describing a business rule which constrains or provides conditions on what value or range of values is permissible.

A Message Variant Data Item Value Rule is composed of the following data elements:

data element name	data element definition	requirement type	conditional requirement rule
variant data item value rule identifier	A unique identifier for variant data item value rule.	Mandatory	
variant data item value rule name	A meaningful title for a variant data item value rule.	Mandatory	
variant data item value rule definition	A description of a variant data item value rule.	Mandatory	

Message Scenario Variant Enumeration

2.22 A Message Scenario Variant Data Item may be related to one or more Message Scenario Variant Enumeration. A Message Scenario Variant Enumeration is composed of a Data Item Enumeration (Paragraph 2.7) and a Message Scenario Variant Data Item, as such the enumerations associated to an Energy Market Data Item may be specific to an Energy Market Message Scenario Variant.

3 Energy Market Data Specification Meta Data Model Relational Data Model Diagram

3.1 This diagram represents the full Energy Market Data Specification. Provided on EMAR as Annex A. Annex A should be viewed in conjunction with this document.

4 Data Access Matrix

4.1 The Data Access Matrix defines the access rights that each Data Service has for an Energy Market Data Item via the Electricity Enquiry Service or the Gas Enquiry Service¹⁵. Provided in PDF file format in Annex B.

5 Energy Market Data Item Catalogue

5.1 For user research purposes the Energy Market Data Item Catalogue is provided in Microsoft Excel file format in Annex C.

6 Energy Market Message Scenario Variant Catalogue

6.1 For user research purposes the Energy Market Message Scenario Variant Catalogue is provided in Microsoft Excel file format in Annex D.

¹⁵ The Gas Enquiry Service Data Access Matrix will not be added until RCC.