ENERGY
NOTICE OF MODIFICATION OF THE RETAIL ENERGY CODE

The Secretary of State modifies the Retail Energy Code as set out in this notice in exercise of the power conferred by section 245(1)(e) of the Energy Act 2023 ("the Act"). In this notice "Retail Energy Code" means the document maintained in accordance with Condition 11B of the Electricity Supply Standard Licence Conditions.

The Secretary of State, in collaboration with the Retail Energy Code Company (RECCo), consulted in August 2026 on proposed modifications of the Retail Energy Code in connection with Tariff Interoperability for the Smart Secure Electricity Systems Programme, and on 29 October 2026 published a response to that consultation. On the basis of the conclusions in that response to consultation, the Secretary of State decides, with effect from 6 November 2026, to make the following modifications to the Retail Energy Code:

1. the Energy Market Data Specification is modified as set out in Annex A to this notice, and is hereby so modified;

2. the Energy Market Data Specification - Standards Definition Document is modified as set out in Annex B to this notice, and is hereby so modified; and

3. the Retail Energy Code is modified so as to incorporate the Tariff Interoperability API Technical Specification, being Version 1.0 of that specification as published by RECCo on 29 October 2026 on the REC Portal and available at the link: APIs | Developer Portal.

Nothing in this notice prevents documents listed above from being amended after that date in accordance with the Retail Energy Code.

Annexes to this notice

Each Annex is the document provided below and is published with and forms a part of this notice.

Annex A – Modifications of the Retail Energy Code - Energy Market Data Specification, as shown marked in the Appendices 1 to 3 of this document, including Updates to existing Data Items for Tariff Interoperability (Appendix 1) shown in red and the New Data Items for Tariff Interoperability (Appendix 2) and New Market Messages for

Tariff Interoperability (Appendix 3) inserted in full and are not shown in red in the document below.

Annex B – Modifications of the Retail Energy Code - Energy Market Data Specification, Standards Definition Document (Version 3.2) as shown marked in the document below, including insertions shown in red and deletions shown struck through.

Duncan Stone

DATE: 29/10/2026

Signed as an official of the Department for Energy Security & Net Zero authorised to act on behalf of the Secretary of State.

Department for Energy Security & Net Zero

Annex A - Modifications to the Retail Energy Code - Energy Market Data Specification

Appendix 1 - Updates to existing Data Items for Tariff Interoperability

Department for Energy Security & Net Zero

DI90061- supplierMpid

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI90061	This is the MPID associated with the Supplier.	Retail Energy Code Company	4	0	4	String	Within constraints of datatype only		For the Tariff Interoperability Arrangements only, and specifically MM80001, the YAML Name is supplier_mpid

Market Messages

Market Message
MM80001

Department for Energy Security & Net Zero

DI90033 – meteringPointEnergyFlow

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI90033	The direction of energy flow, into or out of the property, this is an enumerated field.	Retail Energy Code Company	1	0	1	String	Within constraints of datatype only		For the Tariff Interoperability Arrangements only, and specifically MM80003 and MM80005, the YAML Name is metering_point_energy_flow

Data Item Enumerations

Value	Description
I	Energy Flow is Import
E	Energy Flow is Export

Department for Energy Security & Net Zero

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

DI90027 – fuelType

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI90027	This refers to the RMP fuel type, this relates to an enumerated field.	Retail Energy Code Company	1	0	1	String	Within constraints of datatype only		For the Tariff Interoperability Arrangements only, and specifically MM80003 and MM80005, the YAML Name is fuel_type

Data Item Enumerations

Value	Description
E	Electricity
G	Gas

Department for Energy Security & Net Zero

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

DI50230 – Meter Type

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI50230	Indicates the type of meter	Retail Energy Code Company	5	0	5	String	Edifact Level B DTS Variant	meterType	For the Tariff Interoperability Arrangements only, and specifically MM80003 and MM80005 the YAML Name is meter_type

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

Data Item Enumerations

Enumeration Value	Enumeration Description
CHECK	Check
H	Half Hourly
K	Key
LAG_	Lag
LEAD_	Lead
MAIN_	Main
N	Non-Half Hourly
NCAMR	Non-remotely Configurable Automated Meter Reading
NSS	A meter that meets the definition of an ADM but is not compliant with any version of SMETS
RCAMR	Remotely Configurable Automated Meter Reading without remote enable/disable capability
RCAMY	Remotely Configurable Automated Meter Reading with remote enable/disable capability
S	Smartcard Prepayment
S1	A meter that is compliant with the Smart Metering Equipment Technical Specifications 1 (SMETS1)
S2A	A single element meter that is compliant with SMETS2
S2AD	A single element meter with one or more ALCS that is compliant with SMETS2

Department for Energy Security & Net Zero

S2ADE	Single element meter with one or more ALCS and Boost Function that is compliant with SMETS2
S2B	A twin element meter that is compliant with SMETS2
S2BD	A twin element meter with one or more ALCS that is compliant with SMETS2
S2BDE	A twin element meter with one or more ALCS and Boost Function that is compliant with SMETS2
S2C	A polyphase meter that is compliant with SMETS2
S2CD	A polyphase meter with one or more ALCS that is compliant with SMETS2
S2CDE	A polyphase meter with one or more ALCS and Boost Function that is compliant with SMETS2
SPECL	Special
T	Token
2ADF	Single Element with ALCS and Auxiliary Proportional Controller (APC) that is compliant with SMETS2
2ADEF	Single Element with ALCS, Boost Function and APC that is compliant with SMETS2
2AEF	Single Element with Boost Function and APC that is compliant with SMETS2
2AF	Single Element with APC that is compliant with SMETS2
2BF	Twin Element with APC that is compliant with SMETS2

Department for Energy Security & Net Zero

2BDF	Twin Element with ALCS and APC that is compliant with SMETS2
2BDEF	Twin Element with ALCS, Boost Function and APC that is compliant with SMETS2
2BEF	Twin Element with Boost Function and APC that is compliant with SMETS2
2CDEF	Polyphase with ALCS, Boost Function and APC that is compliant with SMETS2
2CF	Polyphase with APC that is compliant with SMETS2
2CDF	Polyphase with ALCS and APC that is compliant with SMETS2
2CEF	Polyphase with Boost Function and APC that is compliant with SMETS2

Department for Energy Security & Net Zero

Appendix 2 - New Data Items for Tariff Interoperability

Department for Energy Security & Net Zero

DI80002 - Supplier Endpoint

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80002	Base url to be used for requesting Tariff Pricing Data.	Retail Energy Code Company	200	0	200	String	A general character string	url	Requests should take the form {url}/{supplierMpid}. The defined format reflects the maximum length.

Market Messages

Market Message
MM80001

Department for Energy Security & Net Zero

DI80003 – TI Supplier Active Flag

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80003	The status of the Energy Supplier held in the Tariff Interoperability Supplier Register.	Retail Energy Code Company	5	0	5	Boolean	Boolean (true/false)	active	

Market Messages

Market Message
MM80001

Department for Energy Security & Net Zero

DI80004 – Last Modified Supplier

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80004	The datetime when the TI Energy Supplier details were last modified.	Retail Energy Code Company	27	0	27	String	high resolution datetime	last_modified	

Market Messages

Market Message
MM80001

Department for Energy Security & Net Zero

DI80006 – Tariff Name

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80006	Display name of the tariff.	Retail Energy Code Company	200	0	200	String	A general character string	name	A single Tariff Name may be applied to multiple Tariff Ids or the Tariff name may be the same as the Tariff Id. The defined format reflects the maximum length

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

DI80009 – Tariff Id

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80009	A TI Energy Supplier specific identifier required to identify each unique set of Tariff Pricing Data e.g. the standing charge and unit rate applicable where relevant factors are combined such as payment method or location.	Retail Energy Code Company	200	0	200	String	A general Character string	tariff_id	The defined format reflects the maximum length

Market Messages

Market Message
MM80003

Department for Energy Security & Net Zero

DI80010 – Tariff Description

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80010	Free text field to allow the TI Energy Supplier to provide additional information about the specific tariff.	Retail Energy Code Company	2000	0	2000	String	A general character string	description	The defined format reflects the maximum length

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80011 – Last Modified Tariff

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80011	The datetime when the Tariff Pricing Data for a specific Tariff Id was last modified.	Retail Energy Code Company	27	0	27	String	high resolution datetime	last_modified	This Data Item should be updated each time a change is made to a Data Item recorded within the Get Tariff Details Response Market Message

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

DI80012 – Effective From Rates Dynamic Tariff

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80012	The datetime when the unit rate for a specific Dynamic Tariff Id is effective from.	Retail Energy Code Company	27	0	27	String	high resolution datetime	valid_from	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80013 – Effective To Rates Dynamic Tariff

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80013	The datetime when the unit rate for a specific Dynamic Tariff Id is effective to.	Retail Energy Code Company	27	0	27	String	high resolution datetime	valid_to	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80014 – Unit Price

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80014	The unit rate applicable to a specific Tariff Id measured in £ per kWh (excluding VAT)	Retail Energy Code Company	7	5	8	String	A general character string	unit_price	The defined format reflects the maximum length should a tariff require this level of granularity

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80016 – Effective From Tariff

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80016	The datetime from when a specific Tariff Id was effective.	Retail Energy Code Company	27	0	27	String	high resolution datetime	valid_from	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80017 – Effective To Tariff

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80017	The datetime until when a specific Tariff Id is effective.	Retail Energy Code Company	27	0	27	String	high resolution datetime	valid_to	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80018 – Sellable From

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80018	The datetime from when the specific tariff was available to customers.	Retail Energy Code Company	27	0	27	String	high resolution datetime	sellable_from	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80019 – Sellable To

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80019	The datetime from when a specific tariff will no longer be, or was no longer, available to Customers.	Retail Energy Code Company	27	0	27	String	high resolution datetime	sellable_to	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80020 – Tariff Type

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80020	The type of Tariff.	Retail Energy Code Company	11	0	11	String	A general character string	tariff_type	

Data Item Enumerations

Value	Description
static	where the unit price applicable at a specific time of day does not change over time
dynamic	where the unit price applicable at a specific time of day changes over time.

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

DI80021 – Tariff Comments

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80021	A free text field to provide general comments and context regarding the Tariff Pricing Data.	Retail Energy Code Company	2000	0	2000	String	A general character string	comments	Example usage: any pass-through costs or add on incentives. The defined format reflects the maximum length

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80022 – Percentage Green

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80022	Percentage of supply from green energy.	Retail Energy Code Company	4	1	5	String	A general character string	percentage_green	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80023 – Payment Method

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80023	Method of payment.	Retail Energy Code Company	16	0	16	String	A general character string	payment_method	

Data Item Enumerations

Value	Description
direct_debit	Direct Debit
prepayment	Prepayment
monthly_cash	Monthly cash / cheque payment
quarterly_cash	Quarterly cash / cheque payment
other	Any payment method not captured by the other enumerations. The Tariff Comments Data Item can be used to provide specific details.

Department for Energy Security & Net Zero

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

DI80024 – LDZ Region

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80024	Gas Local Distribution Zone.	Retail Energy Code Company	3	0	3	String	A general character string	ldz_region	The defined format reflects the maximum length

Data Item Enumerations

Value	Description
SC	Scotland
NO	Northern
NE	North East
NWT	North West
WMD	West Midlands
EM	East Midlands
EA	East Anglia
NT	North Thames
SO	Southern

Department for Energy Security & Net Zero

SE	South East
WN	Wales North
WW	Wales South
SW	South West

Market Messages

Market Message
MM80003
MM80005

Department for Energy Security & Net Zero

DI80035 – Standing Charge

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80035	The standing charge in £ (excluding VAT).	Retail Energy Code Company	7	5	8	String	A general character string	standing_charge	The defined format reflects the maximum length should a tariff require this level of granularity

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80036 – Effective From Rates Static Tariff

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80036	The time (specified in Local Time) when the unit rate for a specific Static Tariff Id is effective from.	Retail Energy Code Company	8	0	8	String	A general character string	time_from	Format of data item follows the form HH:MM:SS

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80037 – Effective To Rates Static Tariff

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80037	The time (specified in Local Time) when the unit rate for a specific Static Tariff Id is effective to.	Retail Energy Code Company	8	0	8	String	A general character string	time_to	Format of data item follows the form HH:MM:SS

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80044 – Company Legal Name

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80044	The registered company name held within the REC Party Register.	Retail Energy Code Company	200	0	200	String	A general character string	company_legal_name	

Market Messages

Market Message
MM80001

Department for Energy Security & Net Zero

DI80045 – Tariff Type of Use

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80045	Free text field to allow TI Energy Suppliers to specify the type of use applicable to a specific set of Tariff Pricing Data at an individual MPxN e.g. where Electric Vehicle charging has different rates to the rest of the property.	Retail Energy Code Company	200	0	200	String	A general character string	type_of_use	The defined format reflects the maximum length

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80046 – TI Energy Supplier Contact Details

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80046	Free text field to include TI Energy Supplier contact name, email address and phone number	Retail Energy Code Company	2000	0	2000	String	A general character string	supplier_contact_details	The defined format reflects the maximum length

Market Messages

Market Message
MM80001

Department for Energy Security & Net Zero

DI80047 – Tariff Days

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80047	Indicates the day of the week against which the Tariff Pricing Data applies	Retail Energy Code Company	9	0	9	String	A general character string	tariff_days	The defined format reflects the maximum length

Data Item Enumerations

Value	Description
All	All days of the week
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday

Department for Energy Security & Net Zero

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80048 – Tariff from kWh

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80048	Indicates the energy usage from which the Tariff Pricing Data applies. To be used to define block tariffs where the unit rate differs based on the energy usage.	Retail Energy Code Company	13	3	14	String	A general character string	min_kWh	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

DI80049 – Tariff to kWh

Data Item

Data Item Reference	Item Description	Data Item Owner	Logical Length	Decimal Length	Physical Length	Data Type	Data Type Format	YAML Name	Data Item Notes
DI80049	Indicates the maximum energy usage against which the Tariff Pricing Data applies. To be used to define block tariffs where the unit rate differs based on the energy usage.	Retail Energy Code Company	13	3	14	String	A general character string	max_kWh	

Market Messages

Market Message
MM80005

Department for Energy Security & Net Zero

Appendix 3 - New Market Messages for Tariff Interoperability

Department for Energy Security & Net Zero

MM80000 – Get Supplier Tariff Endpoints Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM80000	Enables TI Users to request a list of Supplier Endpoints.		001	Query parameters can be used to limit the response to only include active TI Energy Suppliers

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SV80000	Get Supplier Tariff Endpoints Request	Tariff Interoperability User	Tariff Interoperability Supplier Register	Retail Energy Code Company	`/suppliers`	GET

To retrieve the details of TI Energy Supplier Endpoints by MPID, send an empty {} JSON body to the Tariff Interoperability Supplier Register endpoint.

Department for Energy Security & Net Zero

MM80001 – Get Supplier Tariff Endpoints Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM80001	Returns Supplier Endpoints by MPID.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SV80001	Get Supplier Tariff Endpoints Response	Tariff Interoperability Supplier Register	Tariff Interoperability User	Retail Energy Code Company	`/suppliers`	GET

Data Items

Data Item ID	Legacy Reference	Name
DI90061		supplierMpid
DI80044		Company Legal Name
DI80002		Supplier Endpoint

Department for Energy Security & Net Zero

DI80003		TI Supplier Active Flag
DI80004		Last Modified Supplier
DI80046		TI Energy Supplier Contact Details

SV80001 - Get Supplier Tariff Endpoints Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
Data	SV80001 body	1-*		G									
					1							supplierMpid	
					1							Company Legal Name	
					1							Supplier Endpoint	
					1							TI Supplier Active Flag	
					1							Last Modified Supplier	
					1							TI Energy Supplier Contact Details	

Department for Energy Security & Net Zero

MM80002 – Get Tariffs Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM80002	Enables a TI User to request a list of Tariff Ids		001	Query parameters can be used to limit the response as set out in the TI API Technical Specification

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SV80002	Get Tariffs Request	Tariff Interoperability User	Energy Supplier	Retail Energy Code Company	`/tariffs/{supplier_mpid}`	GET

To request a list of applicable Tariff Ids, send an empty {} JSON body to the relevant Supplier Endpoint, including the relevant supplierMpid in the route.

Department for Energy Security & Net Zero

MM80003 – Get Tariffs Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM80003	Returns tariff summary for specified MPID.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SV80003	Get Tariffs Response	Energy Supplier	Tariff Interoperability User	Retail Energy Code Company	`/tariffs/{supplier_mpid}`	GET

Data Items

Data Item ID	Legacy Reference	Name
DI80009		Tariff Id
DI80006		Tariff Name
DI80011		Last Modified Tariff

Department for Energy Security & Net Zero

DI80020		Tariff Type
DI90027		fuelType
DI80024		LDZ Region
DI50028		GSP Group Id
DI80023		Payment Method
DI90033		meteringPointEnergyFlow
DI50230		Meter Type

SV80003 - Get Tariffs Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
data	SV80003 data	1-*		G									
					1							Tariff Id	
					1							Tariff Name	
					1							Last Modified Tariff	
					1							Tariff Type	
					1							fuelType	
					C							LDZ Region	To be populated only when used to

Department for Energy Security & Net Zero

													differentiate gas tariffs
					C							GSP Group Id	To be populated for electricity tariffs. Where GSP Group ID is used to differentiate gas tariffs, use instead of LDZ Region.
					C							Payment Method	To be populated where the specific tariff is restricted to certain Payment Methods
					C							meteringPointEnergyFlow	To be populated for electricity tariffs only
					C							Meter Type	To be populated where the specific tariff is restricted to certain Meter Types. Multiple Meter Types could be listed against a single Tariff Id.

Department for Energy Security & Net Zero

MM80004 – Get Tariff Details Request

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM80004	Request details for a specific tariff.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SV80004	Get Tariff Details Request	Tariff Interoperability User	Energy Supplier	Retail Energy Code Company	`/tariff/{supplier_mpid}/{tariff_id}`	GET

To request tariff details for a specific Tariff Id, send an empty {} JSON body to the relevant Supplier Endpoint, including the relevant supplierMpid and the specific Tariff Id in the route.

Department for Energy Security & Net Zero

MM80005 – Get Tariff Details Response

Market Message

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM80005	Returns details for a specific tariff.		001	

Scenario Variants

Scenario Variant	Name	Source	Target	Owner	Route	Method
SV80005	Get Tariff Details Response	Energy Supplier	Tariff Interoperability User	Retail Energy Code Company	`/tariff/{supplier_mpid}/{tariff_id}`	GET

Data Items

Data Item ID	Legacy Reference	Name
DI80006		Tariff Name
DI80010		Tariff Description
DI80011		Last Modified Tariff

Department for Energy Security & Net Zero

DI90027		fuelType
DI80035		Standing Charge
DI80012		Effective From Rates Dynamic Tariff
DI80013		Effective To Rates Dynamic Tariff
DI80036		Effective From Rates Static Tariff
DI80037		Effective To Rates Static Tariff
DI80014		Unit Price
DI90033		meteringPointEnergyFlow
DI80016		Effective From Tariff
DI80017		Effective To Tariff
DI80020		Tariff Type
DI80021		Tariff Comments
DI80018		Sellable From
DI80019		Sellable To
DI80022		Percentage Green
DI80023		Payment Method
DI80024		LDZ Region
DI50028		GSP Group Id
DI50230		Meter Type
DI80045		Tariff Type of Use
DI80047		Tariff Days
DI80048		Tariff from kWh
DI80049		Tariff to kWh

Department for Energy Security & Net Zero

SV80005 - Get Tariff Details Response - Message Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
data	SV80005 data	1-1		G									
					1							Tariff Name	
					1							Tariff Description	
					1							Last Modified Tariff	
					1							Effective From Tariff	
					C							Effective To Tariff	This data item should be populated where the tariff is no longer active or has a planned date whereby it will no longer be active.
					1							Sellable From	
					C							Sellable To	This data item should only be populated for tariffs that will no longer be, or are no longer, open to new customers

Department for Energy Security & Net Zero

					C							meteringPointEnergyFlow	To be populated for electricity tariffs only
					1							fuelType	
					1							Tariff Type	
					O							Tariff Comments	
					O							Percentage Green	
					C							Payment Method	To be populated where the specific tariff is restricted to certain Payment Methods
					1							Standing Charge	
					C							LDZ Region	To be populated when used to differentiate gas tariffs.
					C							GSP Group Id	To be populated for electricity tariffs. Where GSP Group ID is used to differentiate gas tariffs, use instead of LDZ Region.

Department for Energy Security & Net Zero

					C							Meter Type	To be populated where the specific tariff is restricted to certain Meter Types. Multiple Meter Types could be listed against a single Tariff Id.
	SV80005 Rates	1-*			G								
						1						Tariff Type of Use	Populate with 'all' where there is no differentiation based on the type of usage
							C					Tariff Days	To be populated where Tariff Type is Static. Populate with 'All' where there is no differentiation based on days of the week
								C				Effective From Rates Dynamic Tariff	To be populated where Tariff Type is Dynamic

Department for Energy Security & Net Zero

								C				Effective To Rates Dynamic Tariff	To be populated where Tariff Type is Dynamic
								C				Tariff from kWh	To be populated where the Unit Rate differs based on the consumption value (i.e. block tariffs). It should be omitted for other tariff types.
								C				Tariff to kWh	To be populated where the Unit Rate differs based on the consumption value (i.e. block tariffs). It should be omitted for other tariff types. It should be omitted on the final block of a block tariff where

Department for Energy Security & Net Zero

													there is no upper limit.
								C				Effective From Rates Static Tariff	To be populated where Tariff Type is Static
								C				Effective To Rates Static Tariff	To be populated where Tariff Type is Static
								1				Unit Price	

Department for Energy Security & Net Zero

Annex B - Modifications to the Retail Energy Code, Energy Market Data Specification - Standards Definition Document

Department for Energy Security & Net Zero

Energy Market Data Specification

Standards Definition Document

Version: 3.2 Effective Date: 06 November 2026

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	26 June 2026	R0320
3.2	06 November 2026	Modified by SoS to implement Tariff Interoperability Phase 1a

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 Matrices 24

5 Data Items and Scenario Variants 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 Codes (SEC, REC, BSC, UNC, IGT UNC and DCUSA). TheEnergy Market Data Specification defines which permissible Physical Messaging Standards apply to each message. The Permissible Message Means Object Class defines the Physical Messaging Standard applicable for each Energy Market Message (see Paragraph 2.14 of this document).

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 Class within the Data Specification and each Object Class' associated Data Elements. The meaning of Object Class and Data Element is defined in ISO 11179.

2.2 The Data Specification Model is represented by a relational data model diagram, published on the REC Portal.

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 and minus sign permitted. Decimal point characters are not 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. 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 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 (The full list of acceptable characters can be found in the Electricity Data Transfer Handbook)	A general character string inclusive of all Edifact Level B	string
Edifact level B gas metering Variant (The full list of acceptable characters can be found in the Gas DTS Handbook)	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
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 decimallength	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	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. 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.	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	May be provided for an Energy Market Data Item if it is within a DIP Market Message, but not always. If provided, may either be

			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 API~~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~~API.

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: 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) This can be accessed via the DTS Portal.	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. This is currently provisioned via the Landmark Central Switching Developme nt Portal.	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. This can be accesse d via the Xoserve website	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	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	GES API

	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	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 Market Data	TI API Technical Specification	TI API

	Specification.		

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 Scenario.

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).

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 andUse of System Agreement Company
Distributor	LDSO	Distribution Network Operator
ECS		Elexon 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
TI Supplier Register		Tariff Interoperability Supplier Register
TI User		Tariff Interoperability 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

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.

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 Collection within a physical message is detailed within each Service Providers Physical Message Standard. A Message Scenario Variant Collection is defined as a Record within the UKLink Manual.

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	

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 the REC Portal.

4 Data Access Matrices

4.1 The Electricity Data Access Matrix and Gas 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 Service. Provided in excel file format on the REC Portal.

5 Data Items and Scenario Variants

5.1 Details of all Data Items and Scenario Variants within the Market Messages are provided within the Data Specification, in digital, BACPAC, and HTML formats on the REC Portal.